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1 KALIP ELEMANLARI

Hazır Plakalar ve Kalıp Setleri 27-31



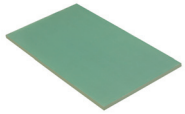
MSP Sayfa 27
Standart Kalıp Plakaları



MHKS Sayfa 30
Enjeksiyon Hazır Kalıp Setleri



MPKS Sayfa 31
Pres - Sac Hazır Kalıp Setleri



MYP Sayfa 45
Isı Yalıtım Plakaları

Kolonlar ve Burçlar 33-69



M100 Sayfa 33
Ortadan Şapkalı Kolon



M105 Sayfa 34
Arkası Kalın Kolon



M110 Sayfa 35
Döküm Blok Kolon



M111 Sayfa 36
Geri Vurucu Vidalı Kolon



M112 Sayfa 37
Kolon Afnor



M113 Sayfa 38
Sıyırıcı Bağlantılı Kolon



M113-1 Sayfa 39
Kılavuz Kolon NAAMS



M113-2 Sayfa 40
Kılavuz Kolon NAAMS



M115 Sayfa 41
Kılavuz Kolon PSA



M101 Sayfa 42
Şapkalı Kolon



M101D Sayfa 43
Şapkalı Kolon Yağ Kanalsız



M101A Sayfa 44
Şapkalı Kolon Açı Başlı



M1110 Sayfa 45
Maça Sistem Açılı Burç



M102 Sayfa 46
Kademeli Kolon



M103 Sayfa 50
Kuyruklu Kademeli Kolon Avrupa Standart



M103Y Sayfa 57
Kuyruklu Kademeli Kolon Yerli Standart



M108 Sayfa 61
Şapkalı Bilyalı Sistem Kolon



M109 Sayfa 61
Düz Bilyalı Sistem Kolon



M114 Sayfa 62
Düz Kolon Vida Dişli



M120 Sayfa 63
Şapkalı Burç



M121 Sayfa 64
Kuyruklu Burç Avrupa Standart



M121Y Sayfa 66
Kuyruklu Burç Yerli Standart



M122 Sayfa 67
Flanşlı Burç



M122B Sayfa 68
Bilyalı Burç Set



M166 Sayfa 69
Lineer Şapkalı Rulman Burç

1 KALIP ELEMANLARI

Kolonlar ve Burçlar 69-89



M166F Sayfa 69
Lineer Bilyalı Burç



M166K Sayfa 70
Lineer Kuyruklu Rulman Burç



M120SY Sayfa 71
Segmanlı Şapkalı Burç / Yerli Standart



M120S Sayfa 72
Segmanlı Şapkalı Burç / Avrupa Standart



M140 Sayfa73
Tespit Burç Avrupa Standart



M140Y Sayfa 74
Tespit Burç Yerli Standart



M123 Sayfa 75
Uzun Kılavuz Burç / İnceTip



M123K Sayfa 75
Uzun Kılavuz Burç / Kalın Tip



M124 Sayfa 76
Kısa Kılavuz Burç / İnceTip



M124K Sayfa 76
Kısa Kılavuz Burç / Kalın Tip



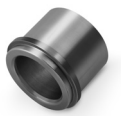
M125 Sayfa 77
Uzun Bronzlu Burç



M126 Sayfa 78
Kısa Bronzlu Burç



M132 Sayfa 79
Uzun Sinterli Burç



M133 Sayfa 80
Kısa Sinterli Burç



M127 Sayfa 81
Uzun Çelik Bilyalı Kafes Burcu



M128 Sayfa 82
Kısa Çelik Bilyalı Kafes Burcu



M160 Sayfa 83
Bilyalı Kafes



M161 Sayfa 84
Bilyalı Kafes Destek Yayı



M2036 Sayfa 84
Bilyalı Kafes Stoplama Flanşı



M70-01 Sayfa 85
Döküm Blok



M70-02 Sayfa 85
Bronzlu Döküm Blok



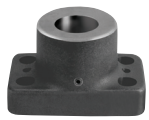
M70-03 Sayfa 85
Çelik Kaymalı Döküm Blok



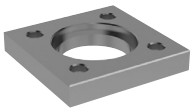
M70-04 Sayfa 86
Bilyalı Döküm Blok



M70-05 Sayfa 86
Grafitli Döküm Blok



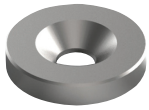
M70-10 Sayfa 86
Kolon Sabitleme Bloğu



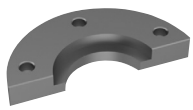
M193 Sayfa 87
Kolon Tutucu Flanş



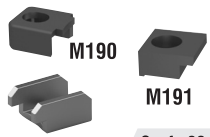
M194 Sayfa 87
Kolon Segmanı



M2034 Sayfa 88
Kolon Montaj Flanşı



M195 Sayfa 88
Burç Tutucu Flanş



Sayfa 89
Kolon Burç Tutucular

Grafitli Burçlar ve Plakalar

91-123



M205 Sayfa 91
Şapkalı Grafitli Bronz Burç



M208 Sayfa 92
Kuyruklu Grafitli Bronz Burç



M207 Sayfa 93
Ortadan Flanşlı Grafitli Bronz Burç



M204 Sayfa 94
Düz Grafitli Bronz Burç



M201 Sayfa 95
Grafitli Flanşlı Bronz Burç - NAAMS



M202 Sayfa 95
Grafitli Şapkalı Bronz Burç - CNOMO



M203 Sayfa 96
Grafitli Şapkalı Bronz Burç - NAAMS



M206 Sayfa 96
Grafitli Flanşlı Bronz Burç



M230 Sayfa 97
Grafitli Bronz Plaka



M232 Sayfa 98
Grafitli Bronz Plaka



M242 Sayfa 98
"T" Şekilli Grafitli Bronz Plaka



M233 Sayfa 99
Grafitli Bronz Plaka



M234 Sayfa 100
Grafitli Bronz Plaka



M236 Sayfa 101
Grafitli Bronz Plaka



M240 Sayfa 102
Dört Köşe Grafitli Bronz Plaka



M244 Sayfa 103
"L" Grafitli Bronz Plaka



M246 Sayfa 104
"L" Grafitli Bronz Plaka



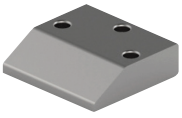
M248 Sayfa 105
"L" Grafitli Bronz Plaka



M250 Sayfa 106
Grafitli Bronz Kam Plaka



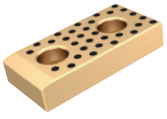
M252 Sayfa 106
Grafitli Bronz Kam Plaka



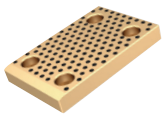
M252C Sayfa 107
Çelik Kam Plaka



M254 Sayfa 107
Grafitli Çelik Kam Plaka



M256 Sayfa 108
Grafitli Sürtünme Plakası



M258 Sayfa 109
Grafitli Sürtünme Plakası



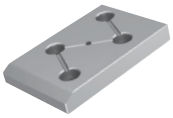
M260 Sayfa 110
Grafitli Değiştirilebilir Sürtünme Plakası



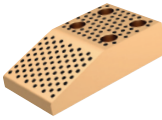
M262 Sayfa 111
Grafitli Sürtünme Plakası



M264 Sayfa 112
Kolon Segmanı



M272 Sayfa 113
Çelik Sürtünme Plakası



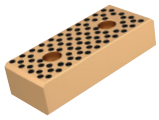
M274 Sayfa 114
Açılı Bronz Sürtünme Plakası



M274C Sayfa 115
Açılı Çelik Sürtünme Plakası

1 KALIP ELEMANLARI

Grafitli Burçlar ve Plakalar 1 - 10



M276 Sayfa 116
Grafitli Sürtünme Plakası



M279 Sayfa 116
Geri Dönüş Plakası



M278 Sayfa 117
Kam Hareket Mesafesi Ayar Plakası



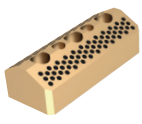
DKAM Sayfa 118
Kam Üniteleri



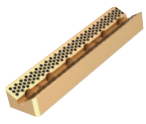
M280 Sayfa 119
Grafitli Çelik Kılavuz Plakası



M282C Sayfa 120
"V" Çelik Blok



M282B Sayfa 120
Grafitli Bronz "V" Blok



M284B Sayfa 121
Grafitli Bronz "V" Blok

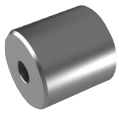


M284C Sayfa 122
"V" Çelik Blok

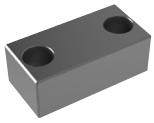


M286 Sayfa 123
Grafitli Yuvarlak Flanş

Pres - Sac Kalıp Mekanik Ürünler 125-147



M170 Sayfa 125
Stoplama Bloğu



M172 Sayfa 126
Stoplama Bloğu



M174 Sayfa 127
Havalandırma Pimi



M175 Sayfa 127
Havalandırma Pimi



M176 Sayfa 128
Havalandırma Pimi



M178 Sayfa 129
Frenleyici



M179 Sayfa 129
Frenleyici



M180 Sayfa 130
Tespit Civatası



M181 Sayfa 130
Emniyet Civata Rondela Seti



M151 Sayfa 131
Merkezleme Pimi



M152 Sayfa 131
Merkezleme Pimi



M153 Sayfa 132
Konik Merkezleme Üniteleri



M154 Sayfa 132
Konik Merkezleme Üniteleri



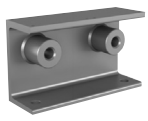
M155 Sayfa 133
Konik Merkezleme Üniteleri



M156 Sayfa 133
Konik Merkezleme Üniteleri



M158 Sayfa 134
Hava Birleştirme Braketleri



M159 Sayfa 134
Hava Birleştirme Braketleri



M2101 Sayfa 135
Sensör Plakası



M2102 Sayfa 135
Yönlendirici



M2103 Sayfa 136
Yönlendirici

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Pres - Sac Kalıp Mekanik Ürünler 125-147



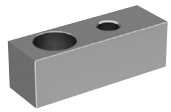
M2104 Sayfa 136
Sac Dayama



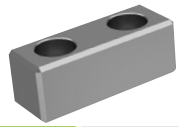
M2106 Sayfa 137
İstif Takozu



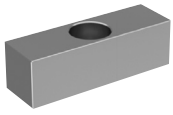
M2107 Sayfa 138
İstif Takozu



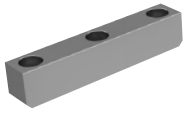
M2110 Sayfa 139
Kama



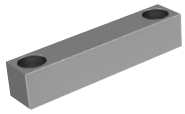
M2111 Sayfa 139
Stoplama Bloğu



M2112 Sayfa 140
Kama



M2113 Sayfa 140
Kama



M2114 Sayfa 141
Kama



M2120 Sayfa 141
Düz L Dayama



M2121 Sayfa 141
Sertleştirilmiş Düz L Dayama



M2122 Sayfa 142
Frezeli L Dayama



M2024 Sayfa 142
Kavrama Plakası



M2025 Sayfa 143
Kızak Stoplama Bloğu



M2028 Sayfa 143
Konik Merkezleme Ayar Plakaları



M2030 Sayfa 144
Kontrol Parçalı Mekanik Dayamalar



M2032 Sayfa 144
Kontrol Parçalı Mekanik Dayamalar



M2038 Sayfa 145
Sac Kaldırma Pimi Yay Destekli



M2040 Sayfa 146
Numaratör Zımba



M2042 Sayfa 146
Numaratör Zımba



M2044 Sayfa 147
Pilot Pim Ünitesi

Mekanik Kalıp Yayları 151-169



M1341 Sayfa 151
Açık Yeşil Yay Ekstra Hafif Yük



M1342 Sayfa 153
Yeşil Kalıp Yayı Hafif Yük



M1343 Sayfa 155
Mavi Kalıp Yayı Orta Yük



M1344 Sayfa 157
Kırmızı Kalıp Yayı Ağır Yük



M1345 Sayfa 159
Sarı Kalıp Yayı Ekstra Yük



M1346 Sayfa 161
Gri Kalıp Yayı Ultra Ağır Yük



M1410 Sayfa 163
Yay Ayar Civatası



M1411 Sayfa 164
Yay Sıkıştırma Ayar Vidası



M2060 Sayfa 164
Yaylı İticiler için Ayar Takımı



M2052 Sayfa 165
Yaylı İticiler (Bilyalı Setskur)

1 KALIP ELEMANLARI

Mekanik Kalıp Yayları 151-169



M2054 Sayfa 165
Yaylı İticiler



M2056 Sayfa 166
Yaylı İticiler



M2058 Sayfa 166
Yaylı İticiler



PSSD Sayfa 167
Poliüretan Yaylar 80 Shore



PSKD Sayfa 167
Poliüretan Yaylar 90 Shore



M2046 Sayfa 168
Elastomer Yaylar için Sabitleme Pimi



M2048 Sayfa 168
Elastomer Yaylar için Sabitleme Pimi



M2050 Sayfa 168
Elastomer Yaylar için Pul

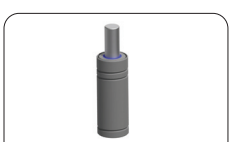


MCYY01 Sayfa 169
Yuvarlak Tel Çelik Yaylar



MCYY02 Sayfa 169
Yuvarlak Tel Çelik Yaylar

Gazlı Yaylar 175-210



MK Seri Sayfa 175
Gazlı Yay Küçük Boyut



MEF Seri Sayfa 176
Gazlı Yay Küçük Boyut



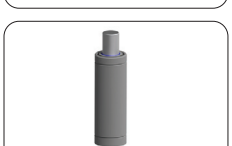
ME Seri Sayfa 177
Gazlı Yay Standart Seri Yüksek Kuvvet



MY Seri Sayfa 184
Gazlı Yay ISO 11901



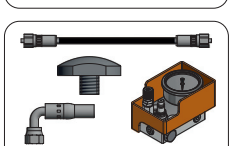
MP Seri Sayfa 191
Gazlı Yay Yüksek Kuvvet



MO Seri Sayfa 197
Gazlı Yay Kompakt Seri



MH Seri Sayfa 201
Gazlı Yay Düşük Kuvvet

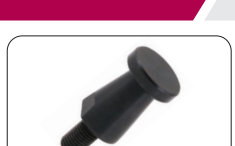


Sayfa 210
Gazlı Yay Akesuarları

Taşıma Elemanları 222-241



MTS102 Sayfa 222
Taşıma Pimi



EE2730 Sayfa 222
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MTS104 Sayfa 223
Taşıma Braketleri



MTS105 Sayfa 223
Emniyet Plakalı Taşıma Braketleri



MTS301 Sayfa 224
Taşıma Milleri Mercedes Benz



MTS302 Sayfa 224
Taşıma Milleri FCA



MTS303 Sayfa 225
Taşıma Milleri Ford



MTS304 Sayfa 225
Taşıma Milleri FCA



MTS305 Sayfa 226
Taşıma Milleri PSA - Renault - CNOMO



MTS309 Sayfa 226
Taşıma Milleri VW - AUDI

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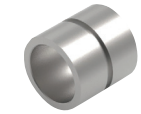
Taşıma Elemanları 222-241



MTS401 Sayfa 227
Taşıma Milleri için Burçlar



MTS501 Sayfa 227
Taşıma Braketleri



MTS502 Sayfa 228
Taşıma Braketleri



MTS503 Sayfa 229
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MTS504 Sayfa 230
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MTS510 Sayfa 230
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MTS520 Sayfa 231
Emniyet Pimi



MTS530 Sayfa 231
Emniyet Pimi



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Emniyet Pimi



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MTS560 Sayfa 232
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MTS570 Sayfa 233
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MTS580 Sayfa 233
Emniyet Tıpa



MTS590 Sayfa 234
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MTM110 Sayfa 236
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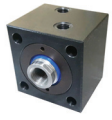
Hidrolik Silindir



MBST -MEST Sayfa 244
Kare Tip Hidrolik Silindir



MKST -MKET Sayfa 244
Boru Tip Hidrolik Silindir



KSH Sayfa 245
Kare Tip Hidrolik Piston Önden Bağlantılı



KSC Sayfa 245
Kare Tip Hidrolik Piston Üstten Bağlantılı

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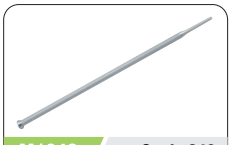
M1840 Sayfa 247
Havşa Başlı HSS Zımba



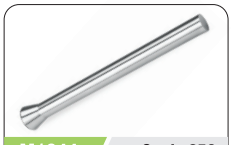
M1841 Sayfa 248
Vida Yeri Oluşturma HSS Zımba



M1842 Sayfa 248
Havşa Başlı Kademeli HSS Zımba



M1843 Sayfa 250
Havşa Başlı Çift Kademeli HSS Zımba



M1844 Sayfa 250
Konik Başlı 30° HSS Zımba



M1845 Sayfa251
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M1846 Sayfa 251
Şişe Boyunlu Kademeli Zımba



M1847 Sayfa 251
Şişe Boyunlu İticili Zımba



M1848 Sayfa 252
Şişe Boyunlu Zımba Montaj Burcu



M1849 Sayfa 252
Konik Başlı Zımba Yeri Frezesi



M1850 Sayfa 253
Silindir Başlı Zımba



M1851 Sayfa 253
Silindir Başlı Kademeli Zımba



M1852 Sayfa 254
Silindir Başlı İticili Zımba



M1853 Sayfa 254
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M1855 Sayfa 255
Kalın Başlı İticili Zımba



M1856 Sayfa 255
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M1857 Sayfa 255
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M1858 Sayfa 256
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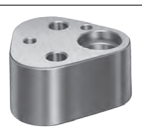
M1859 Sayfa 256
Kalın Başlı Zımba Formlu



M1860 Sayfa 257
Merkezleme Pimli Zımba Formlu



M1861 Sayfa 257
Merkezleme Pimli İticili Zımba



M1862 Sayfa 258
Zımba Tutucu



M1863 Sayfa 258
Zımba Tutucu



M1864 Sayfa 258
Zımba Tutucu Altlık Plakaları



M1865 Sayfa 259
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M1865S Sayfa 259
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M1866 Sayfa 260
Düz Matris Formlu



M1866S Sayfa 260
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M1867 Sayfa 261
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M1868 Sayfa 262
Konik Pilot Pim



M1869 Sayfa 262
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M1870 Sayfa 262
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M1871 Sayfa 263
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M1873 Sayfa 264
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M1874 Sayfa 264
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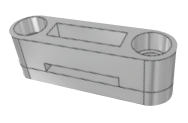
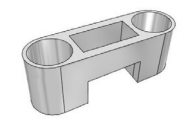
M1875 Sayfa 265
Bilya Kilitlemeli Geniş Uçlu Düz Zımba



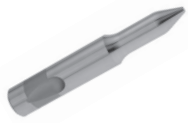
M1876 Sayfa 265
Bilya Kilitlemeli Geniş Uçlu İticili Zımba



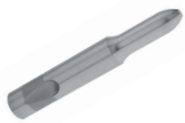
M1877 Sayfa 266
Bilya Kilitlemeli Zımba Tutucu - Yuvarlak



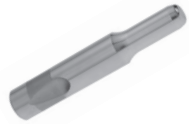
M1878 Sayfa 266
Bilya Kilitlemeli Zımba Tutucu - Mini



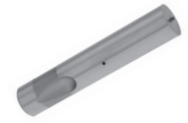
M1879 Sayfa 267
Konik Pilot Pim



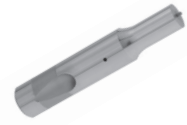
M1880 Sayfa 267
Küresel Pilot Pim



M1881 Sayfa 267
Parabolik Pilot Pim



M1882 Sayfa 268
Bilya Kilitlemeli İticili Zımba



M1883 Sayfa 268
Bilya Kilitlemeli İticili Zımba - Formlu



M1884 Sayfa 269
Bilya Kilitlemeli Matris Düz



M1885 Sayfa 269
Bilya Kilitlemeli Matris Formlu

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M1810 Sayfa 273
Plastik Enjeksiyon Silindir Başlı İtici Pim



M1810D Sayfa 276
Plastik Enjeksiyon Silindir Başlı İtici Pim DLC



M1815 Sayfa 279
Metal Enjeksiyon Silindir Başlı İtici Pim



M1815D Sayfa 281
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M1820 Sayfa 283
Plastik Enjeksiyon Silindir Başlı Kademeli İtici Pim



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Metal Enjeksiyon Silindir Başlı Kademeli İtici Pim DLC



M1825A Sayfa 285
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Havalı İtici Valf Jet Tip



M1837 Sayfa 290
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M1838 Sayfa 290
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M1839 Sayfa 290
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M2000 Sayfa 292
İki Aşamalı İticili Sistem



M2002 Sayfa 293
İki Aşamalı İticili Sistem



M2004 Sayfa 294
İki Aşamalı İticili Sistem



M2006 Sayfa 295
İki Aşamalı İticili Sistem



M2010 Sayfa 296
İki Aşamalı İticili Sistem



M2020 Sayfa 297
İtici Plaka Hızlandırıcı



M2022 Sayfa 298
İki Aşamalı Enjektör



M2023 Sayfa 299
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M2030 Sayfa 300
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M150 Sayfa 302
Konik Kilitleme



M410 Sayfa 302
Grup Kilitleme Blok



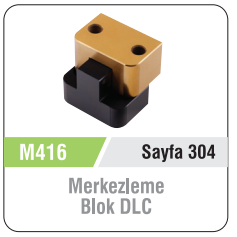
M405 Sayfa 303
Kare Kilitleme Blok



M406 Sayfa 303
Kare Kilitleme Blok DLC



M415 Sayfa 304
Merkezleme Blok



M416 Sayfa 304
Merkezleme Blok DLC



M420 Sayfa 305
Kızak Merkezleme Ünitesi



M425 Sayfa 305
Grafitli Merkezleme Ünitesi



M426 Sayfa 306
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M430 Sayfa 307
Uzun Kızak Merkezleme Ünitesi



M440 Sayfa 308
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M441 Sayfa 308
Tırnaklı Merkezleme Ünitesi



M432 Sayfa 309
Kademeli Kilit



M436 Sayfa 309
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M434 Sayfa 310
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M442 Sayfa 312
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M443 Sayfa 312
Sürtünmeli Plaka Çektirme



M444 Sayfa 313
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M2220 Sayfa 315
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M2223 Sayfa 316
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M2206 Sayfa 316
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M2208 Sayfa 317
Sınırlı Maça Tutucu



M2210 Sayfa 317
Tutucu Ünite



M2205 Sayfa 318
Tutucu Ünite



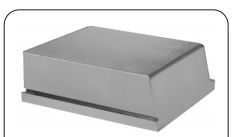
M2207 Sayfa 318
Tutucu Ünite



M1108 Sayfa 319
Maça Stoperi Bilyalı Setskur



M1109 Sayfa 319
Kovanlı Bilyalı Maça Stoperi



M1110 Sayfa 320
Açılı Dayama Klavuz Plaka



M1105 Sayfa 321
Açılı Küresel Burç Seti



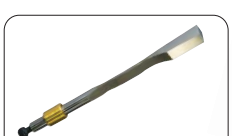
M1100 Sayfa 321
Boyunuz Pimi Yatağı



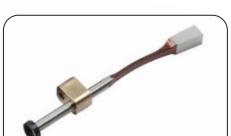
M1107 Sayfa 322
Kayar Maça Yatağı



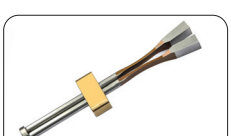
M1109 Sayfa 323
Montajlanabilen Eğimli Pim Ünitesi



ML602 Sayfa 324
Hareketli Esnek İç Maça



ML606 Sayfa 325
Hareketli Esnek İç Maça



ML610 Sayfa 326
Hareketli Esnek İç Maça



ML622 Sayfa 327
Açılı İç Maça Gövdesi



ML624 Sayfa 327
Açılı Maça Klavuz Burcu Bronz



ML626 Sayfa 328
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ML628 Sayfa 328
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ML630 Sayfa 329
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Açılı İç Maça Gövde Kızağı



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M1904 Sayfa 333
Plastik Enjeksiyon Kalıp Yollukları



M1930 Sayfa 334
Yolluk Flanşı



M1935 Sayfa 334
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M1940 Sayfa 335
Muz Yolluk Şapkalı Tip Dikdörtgen



M1942 Sayfa 335
Muz Yolluk Şapkalı Tip Yuvarlak



M1944 Sayfa 336
Muz Yolluk Şapkasız Tip Dikdörtgen



M1946 Sayfa 336
Muz Yolluk Şapkasız Tip Yuvarlak

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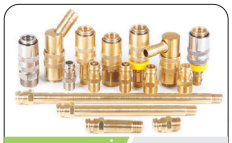

W590 SERİ Sayfa 338
Otomatik Kaplinler ve Rakorlar



W571 SERİ Sayfa 340
Otomatik Kaplinler ve Rakorlar



W620 SERİ Sayfa 341
Otomatik Kaplinler ve Rakorlar



W600 SERİ Sayfa 342
Otomatik Kaplinler ve Rakorlar



W601 SERİ Sayfa 343
Otomatik Kaplinler ve Rakorlar



W509 SERİ Sayfa 344
Otomatik Kaplinler ve Rakorlar



WAK1017 Sayfa 345
Su Dağıtım Kollektörü



WSYT Sayfa 346
Su Yolluk Tıkaçları



WAKS Sayfa 347
Rakor Bağlantı



M5100 Sayfa 348
Standart Hortum Girişli Rakorlar



WS Sayfa 349
Seperatörler



Sayfa 350
Otomatik Bağlantı Rakorları (Plastik)



Sayfa 351
Susturucu - Hortum ve Tabancalar



Sayfa 352
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MESR Sayfa 353
Soğutma Kavşağı



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Sayfa 354
Plastik Soğutma Spiralleri



SSY Sayfa 355
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Sayfa 356
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Sayfa 359
Geri Dönüşüm Kaşeleri



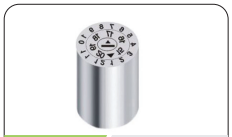
Sayfa 360
Vidalı Kalıp Takvimi



Sayfa 361
Kalıp Takvimi Değiştirilebilir İç Göbek



Sayfa 362
Şapkalı Kalıp Takvimi



M4300 Sayfa 362
İkili Kalıp Takvimi (Komplike)

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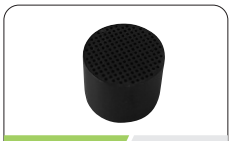
MGA300 Sayfa 364
Sarı Telli Gaz Atma Filtresi



MGA302 Sayfa 364
Sinterli Gaz Atma Filtresi



MGA304 Sayfa 364
Çelik Gövde Gaz Atma Filtresi

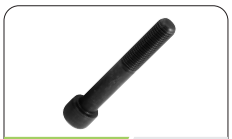


MGA308 Sayfa 365
Alüminyum Zamak Gaz Atma Filtresi

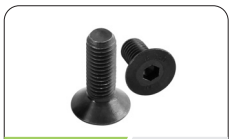


MGA306 Sayfa 365
Kanallı Gaz Atma Filtresi

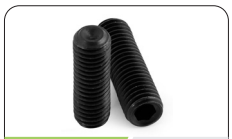
Bağlantı Elemanları 367-387



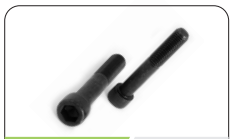
M1400 Sayfa 367
12.9 Kalite İmbus Civata



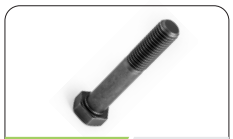
M1404 Sayfa 370
10.9 Kalite Havşa Başlı İmbus Civata



M1406 Sayfa 371
Setskur Civata 14.9 Kalite



M1410 Sayfa 372
İmbus Civata 8.8 Kalite



M1412 Sayfa 373
Altı Köşe Metrik Çelik Civata 8.8 Kalite



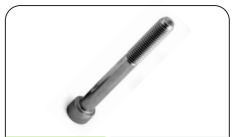
M1413 Sayfa 373
Dijon Saplama



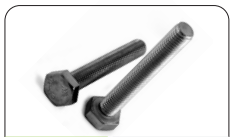
Sayfa 374
Somunlar



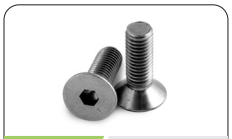
Sayfa 375
Pullar



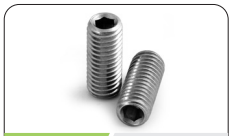
M1420 Sayfa 376
Paslanmaz İmbus Civata



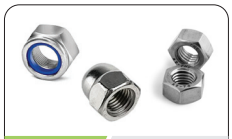
M1422 Sayfa 377
Paslanmaz Altı Köşe Metrik Civata



M1424 Sayfa 378
Paslanmaz Havşa Başlı İmbus Civata



M1426 Sayfa 378
Paslanmaz Setskur Civata



Sayfa 379
Paslanmaz Somunlar



M1413P Sayfa 379
Paslanmaz Gijon / Saplama



Sayfa 380
Paslanmaz Pullar

1 KALIP ELEMANLARI

Bağlantı Elemanları 367-387



M1440 Sayfa 381
Düz Tespit Pimi



M1450 Sayfa 382
Çektirmeli Tespit Pimi



MSK687 Sayfa 383
Tespit Pimi Emniyet Sekmanı



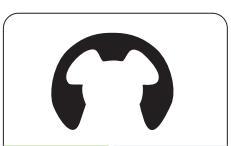
MSK471 Sayfa 384
Mil Sekmanı



MSK472 Sayfa 385
Delik Sekmanı



MYB148 Sayfa 386
Yarıklı Boru Pimi



MSK679 Sayfa 387
Ay Sekman



MSK680 Sayfa 387
H Sekman



MSK682 Sayfa 387
Takviyeli (G) Mik Sekmanı

Kalıp Sayaçları ve Etiketler 389-393



Sayfa 389
Kalıp Kimlik Kartları



Sayfa 390
Enjeksiyon Sayaçları



Sayfa 391
Çelik Harf ve Rakamlar



Sayfa 392
Mekanik Sayaçlar



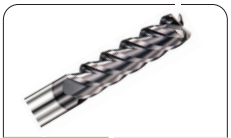
Sayfa 393
Markalama Ünitesi

Karbür Frezeler



MLD12 Sayfa 395

Karbür Freze
Düz Dört Ağız Z4



MLD14 Sayfa 395

Karbür Freze
Düz Uzun Dört Ağız Z4



MLD16 Sayfa 396

Karbür Freze
Küre İki Ağız Z2



MLD18 Sayfa 396

Karbür Freze
Uzun Küre İki Ağız Z2



MLD20 Sayfa 397

Karbür Freze
Köşe Radyus Dört Ağız Z4



MLD22 Sayfa 397

Karbür Freze Uzun
Köşe Radyus Dört Ağız Z4



MLD30 Sayfa 398

Karbür Freze Düz
Dalma İki Ağız Z2/Z4



MLD32 Sayfa 399

Karbür Freze Küre
Dalma İki Ağız Z2



MLD34 Sayfa 400

Köşe Radyus Dalma Freze
İki Ağız Z2/Z4



MLD36 Sayfa 401

Köşe Radyus Boğazlı
Finiş Freze Altı Ağız Z6



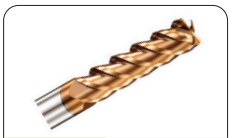
MLD38 Sayfa 401

Karbür Talaş Freze
Dört Ağız Z4



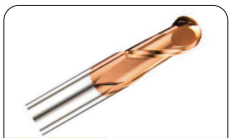
MLD50 Sayfa 402

Karbür Freze
Düz Dört Ağız Z4 65 HRC



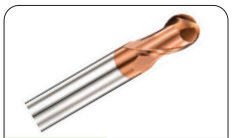
MLD52 Sayfa 402

Karbür Freze Düz Uzun
Dört Ağız Z4 65 HRC



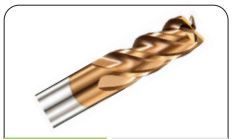
MLD54 Sayfa 403

Karbür Freze
Küre İki Ağız Z2 65 HRC



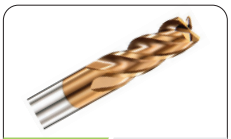
MLD56 Sayfa 403

Karbür Freze Uzun Küre
İki Ağız Z2 65 HRC



MLD58 Sayfa 404

Köşe Radyus
Dört Ağız Z4 65 HRC



MLD60 Sayfa 404

Uzun Köşe Radyus
Dört Ağız Z4 65 HRC



MLD62 Sayfa 405

Karbür Freze Düz Dalma
İki Ağız Z2/Z4 65 HRC



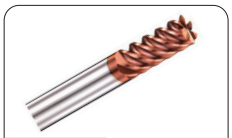
MLD64 Sayfa 406

Karbür Freze Küre Dalma
İki Ağız Z2 65 HRC



MLD66 Sayfa 407

Köşe Radyus Dalma Freze
İki Ağız Z2/Z4 65 HRC



MLD68 Sayfa 408

Köşe Radyus Boğazlı Finiş
Freze Altı Ağız Z6 65 HRC



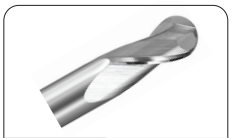
MLD70 Sayfa 408

Karbür Kabatalaş Freze
Dört Ağız Z4 65 HRC



MLD80 Sayfa 409

Düz Freze Alüminyum
İki Ağız Z2



MLD82 Sayfa 410

Küre Boğazlı Freze
Alüminyum Z2



MLD84 Sayfa 411

Düz Freze
Alüminyum Z3



MLD86 Sayfa 412

Köşe Radyus Freze
Alüminyum Z3



MLD88 Sayfa 413

Tek Ağızlı Alüminyum
Freze Z1 Polisajlı



MLD90 Sayfa 414

Düz Freze Alüminyum
Z3 Polisajlı



MLD92 Sayfa 415

Küre Freze Alüminyum
Z2 Polisajlı

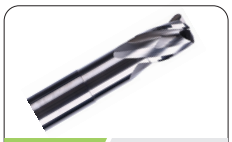


MLD94 Sayfa 416

Köşe Radyus Freze
Alüminyum Z3 Polisajlı

2 KESİCİ TAKIMLAR

Karbür Frezeler 395-434



MLD96 Sayfa 417
Köşe Radyus Boğazlı Alüminyum Z3 Polisajlı



MLD98 Sayfa 418
Moldplus Değişken Helisli Düz Freze Z4



MLD100 Sayfa 418
Moldplus Köşe Radyus Freze Değişken Helisli Z4



MLD106 Sayfa 419
Moldplus Değişken Helisli Düz Freze Z5



MLD110 Sayfa 420
Karbür Inox Freze Z3



MLD112 Sayfa 421
Karbür Titan Freze Z5



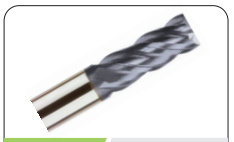
MLD114 Sayfa 422
Kalıpçı Freze Köşe Radyus Kısa



MLD116 Sayfa 423
Kalıpçı Freze Köşe Radyus Uzun



MLD118 Sayfa 424
V10 Karbür Kaba Talaş Freze Z4



MLD120 Sayfa 424
V10 Karbür Finiş Freze Z4



MLD121 Sayfa 425
Karbür High Feed Freze Z4



MLD122 Sayfa 426
Pah Freze



MLD124 Sayfa 426
Köşe Yuvarlama Freze



MLD142 Sayfa434
Karbür Yuvarlak Çubuk



MLD144 Sayfa 434
Karbür Kare Çubuk

Karbür Matkaplar 427-431



MLD126 Sayfa 427
Karbür Mini Matkap



MLD128 Sayfa428
Karbür 3D Matkap Z2



MLD130 Sayfa 429
Karbür 5D Matkap Z2



MLD132 Sayfa 430
Karbür 8D Matkap Z2



MLD134 Sayfa 431
Karbür NC Matkap



MLD136 Sayfa 431
Karbür Punta Matkabı

Karbür Raybalar 432-433



MLD140 Sayfa 432
Karbür Rayba Düz Kanal Z4 / Z6



Sayfa 433
Karbür Rayba Sol Helis Z4 / Z8

2 KESİCİ TAKIMLAR

HSS Kesici Takımlar

436-457



MLDH10 Sayfa 436
DIN338 Matkap Ucu Haddeli



MLDH12 Sayfa 436
DIN338 Matkap Ucu Taşlanmış



MLDH14 Sayfa 437
DIN340 Matkap Ucu Uzun



MLDH16 Sayfa 437
DIN338 Matkap Ucu Altın Seri



MLDH18 Sayfa 438
Çok Uzun (Su Yolluk) Matkap Uçları



MLDH22 Sayfa 439
Kaplamalı Performans Matkap Ucu



MLDH24 Sayfa 440
Konik Saplı Matkap Uçları



MLDH28 Sayfa 441
Punta Matkapları



MLDH32 Sayfa 442
Metrik 3lü Takım Kılavuzu



MLDH34 Sayfa 442
Whitwort 3lü Takım Kılavuzu BSW



MLDH33 Sayfa 442
Metrik 3lü Takım Kılavuzu Sert Malzeme



MLDH35 Sayfa 442
Boru Vidalı 2li Makina Kılavuzu



MLDH36 Sayfa 443
Metrik İnce Diş 2li Takım Kılavuzu



MLDH37 Sayfa 444
Metrik Düz Kanallı Makina Kılavuzu



MLDH38 Sayfa 444
Metrik Eğik Ağız Bilemeli Makina Kılavuzu



MLDH39 Sayfa 444
Metrik Helis Makina Kılavuzu



MLDH40 Sayfa 444
Helis ve Düz Makina Kılavuzu Sert Malzeme



MLDH41 Sayfa 445
Düz Kanallı Makina Kılavuzu



MLDH42 Sayfa 445
Helis Kanallı Makina Kılavuzu



MLDH43 Sayfa 446
Metrik İnce Diş Makina Kılavuzu (Düz,Helis,Eğik)



MLDH44 Sayfa 446
Atlamalı Diş Makina Kılavuzu



MLDH45 Sayfa 446
Metrik Vidalı Ovalama Kılavuzları



MLDH46 Sayfa 446
Metrik Vidalı Oluklu Ovalama Kılavuzları



MLDH47 Sayfa 447
Boru Vidalı Makina Kılavuzu (Düz,Helis,Eğik)



MLDH49 Sayfa 447
NPT Konik Boru Kılavuzu



MLDH51 Sayfa 447
Matkap Kılavuz Kombine Ürün



MLDH52 Sayfa 448
Ters Kılavuz Takımı



V13000 Sayfa 448
Ayarlanabilir Kılavuz Kolları



V14 Sayfa 448
Kılavuz Uzatmaları



V10 Sayfa 448
Cırcırlı Kılavuz Kolları

2 KESİCİ TAKIMLAR

HSS Kesici Takımlar 436-457



MLDH56 Sayfa 449
HSS Paftalar



MLDH61 Sayfa 449
Çelik Gövde Pafta Kolu



MLDH60 Sayfa 450
Silindir Saplı Parmak Freze



MLDH64 Sayfa 450
Silindir Saplı Parmak Freze Kaba Talaş



MLDH68 Sayfa 451
T Kanal Freze Çapraz Dişli



MLDH70 Sayfa 451
Sabit Pilotlu İmbus Kafa Yeri Freze



MLDH72 Sayfa 451
Kanal Freze



MLDH74 Sayfa 451
Kırlangıç Freze



MLDH76 Sayfa 452
Havşa Matkapları



MLDH86 Sayfa 452
Köşe Yuvarlama Frezesi



MLDH92 Sayfa 454
Silindir Saplı Raybalar



MLDH100 Sayfa 455
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MLDH106 Sayfa 456
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GSP100 Sayfa 457
Daire Testereler

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Teknik Kimyasallar 460-467



Sayfa 460
Moldart Kimyasallar



Sayfa 461
Ayırıcılar



Sayfa 462
Temizleyici ve Yağ Sökücüler



Sayfa 463
Anti Korozyon



Sayfa 464
Gresler



Sayfa 465
Yapıştırıcılar ve Sızdırmazlık



Sayfa 467
Marka ve Alıştırma Boyaları

4 PARLATMA EKİPMANLARI

Parlatma Ekipmanları 470-515



V8410 Sayfa 470
Seramik Gaz Taşları CERATON



Sayfa 471
Gaz Taşları BELLSTONE



Sayfa 472
Gaz Taşı Tutucuları



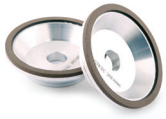
Sayfa 473
Gaz Taşları



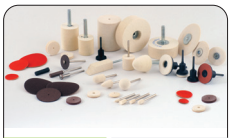
Sayfa 476
Saplı Taşlar



Sayfa 476
Kombine Taşlar



Sayfa 477
Diament Taşlar



Sayfa 478
Parlatma Keçeleri



Sayfa 480
Spiral Fırçalar



Sayfa 480
Tel Fırçalar



V8401 Sayfa 481
Saplı Krateksler



V8402 Sayfa 481
Silindir Parlatma Lastikleri



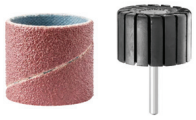
V8403 Sayfa 481
Daire Parlatma Lastikleri



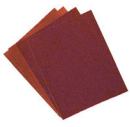
V8404 Sayfa 481
Separe Kesme Taşlar



V8405 Sayfa 481
Spiral Malafalar



Sayfa 482
Spiro Mop Zımparalar



V8425 Sayfa 483
Su Zımparalar



V8435 Sayfa 484
Mop Zımparalar



V8700 Sayfa 486
Elmas Pastalar



Sayfa 487
Sıvı Pasta ve Solüsyonlar



Sayfa 488
Lepleme Setleri



V8720 Sayfa 488
Parlatma Tahtaları



Sayfa 489
Elmas Eğeler Besdia



Sayfa 497
Tesviye Eğeleri



Sayfa 498
Saatçi Eğeler



Sayfa 499
Kalıpçı Frezeler



Sayfa 500
Spiral Püskürtme Elmaslar



Sayfa 501
Taşlama Taşları



Sayfa 502
Kesme Taşları



GRY110 Sayfa 503
Blok Yüzey Silgisi

4 PARLATMA EKİPMANLARI

Parlatma Ekipmanları 470-515



VRTW Sayfa 504
Ultrasonik Parlatma Makinaları



AR108 Sayfa 505
Ultrasonik Eğeleme Makinası



BM Sayfa 505
Elektrikli Spiral Motor



UTR Sayfa 507
Havalı Kalem Diprofiller



TLS Sayfa 508
Havalı Kalem Diprofiller



UG-300 Sayfa 509
Havalı Mikro Kalıpçı Spiral



WP-70 Sayfa 510
Havalı Mikro Kalıpçı Spiral



120 N Sayfa 510
Havalı Mikro Kalıpçı Spiral



NAK-90 Sayfa 511
Havalı Mikro Kalıpçı Spiral



Sayfa 512
Havalı Kalıpçı Taşlamalar



Sayfa 513
Havalı Tornavidalar



Sayfa 514
Havalı Zımpara Makinaları



Sayfa 514
Balancer ve Pens



W5526 Sayfa 515
Quick Kaplinler Hava Serisi



V8405 Sayfa 515
Spiral Malafalar

5 ÖLÇÜ ALETLERİ

Ölçü Aletleri 518-541



Sayfa 518
Kumpaslar MITUTOYO



Sayfa 520
Mikrometreler MITUTOYO



Sayfa 521
Komparatörler MITUTOYO



Sayfa 522
Yükseklik Mihengirleri MITUTOYO



Sayfa 522
Komparatörler Saatleri Standı MITUTOYO



Sayfa 523
Kumpaslar Ekonomik



Sayfa 527
Mikrometreler Ekonomik



Sayfa 527
Komparatörler Ekonomik



Sayfa 529
Yükseklik Mihengirleri Ekonomik



MLDH86 Sayfa 529
Mastar Setleri

5 ÖLÇÜ ALETLERİ

Ölçü Aletleri 518-541



Sayfa 531
Gönyeler



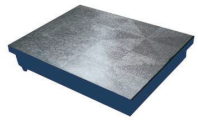
Sayfa 531
Hassas Su Terazisi



Sayfa 532
Dereceli Gönye



Sayfa 534
Filler Çakısı



Sayfa 535
Granit Pleyt



Sayfa 535
Dış Tarağı



Sayfa 535
Manyetik Komparatör Ayakları



Sayfa 535
Z-Sıfırlama



Sayfa 536
Proplar



Sayfa 537
3D Prop HAIMER



Sayfa 538
Paralel Setler



Sayfa 540
Manyetik Ayaklar VERTEX



Sayfa 541
Manyetik Ayaklı Hortumlar

6 İŞ PARÇASI BAĞLAMA ve LIFTING ÜRÜNLER

İş Parçası Bağlama ve Fikstür Ürünler 545-588



Sayfa 545
Bağlama Pabucları



Sayfa 550
Hızlı Kalıp Değiştirme Sistemleri / Enjeksiyon



Sayfa 558
Hızlı Kalıp Değiştirme Sistemleri / Pres



Sayfa 565
Kalıp Kaldırma Bantları



5671
Kalıp Kaldırma Rayları



Sayfa 570
Bağlama Pabuçları



1330 Sayfa 571
Destek Delikli Düz Pabuç



1370 Sayfa 571
Kademeli Destek Delikli Düz Pabuç



1400 Sayfa 572
Kademeli Destek Delikli Çatallı Pabuç



1410 Sayfa 572
Destek Delikli Çatallı Pabuç

6 İŞ PARÇASI BAĞLAMA ve LIFTING ÜRÜNLER

İş Parçası Bağlama ve Fikstür Ürünler 545-588



1387 Sayfa 572
Plaka Bağlama Pabucu



1450 Sayfa 573
Destek Delikli Z-Bağlama Pabucu



1290 Sayfa 573
Merdiven Diş Bağlama Pabucu



1390 Sayfa 574
Çatal Pabuç



1510 Sayfa 575
Vidalı Yükseltici



1310 Sayfa 575
Merdiven Diş Destek



1490 Sayfa 576
Şapkalı Yükseltici



1670 Sayfa 577
Anahtar Ağızlı Saplama



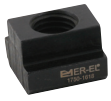
1690 Sayfa 578
Anahtar Ağızlı Saplama



1590 Sayfa 579
T-Ayaklı Saplama



1610 Sayfa 580
Somunlu Pullu T-Ayaklı Saplama



1750 Sayfa 581
T-Pabuç



1790 Sayfa 582
Takviyeli Somun



1810 Sayfa 582
Pullu Somun



1830 Sayfa 583
Uzatma Somun



1870 Sayfa 583
Pul



1990 Sayfa 584
Vida Yükselticili Bağlama Set



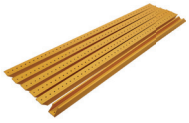
2010 Sayfa 585
Merdiven Yükselticili Bağlama Set



2050 Sayfa 586
Dereceli Yandan Bağlama



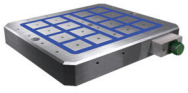
2170 Sayfa 587
Yandan Bağlama Pençe Pabuç



1955 Sayfa 587
T-Kanal Koruyucu



1950 Sayfa 587
T-Kanal Temizleyici



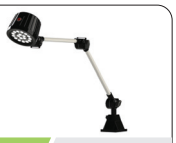
MQ9000 Sayfa 588
Elektromanyetik Tablalar



MSF-20 Sayfa 612
Led Makina Lambası



MSF-30 Sayfa 612
Led Makina Lambası



MSF-40 Sayfa 612
Led Makina Lambası



MSF-60 Sayfa 612
Led Makina Lambası



MSF-70 Sayfa 612
Led Makina Lambası



Sayfa 612
Led Makina Lambası

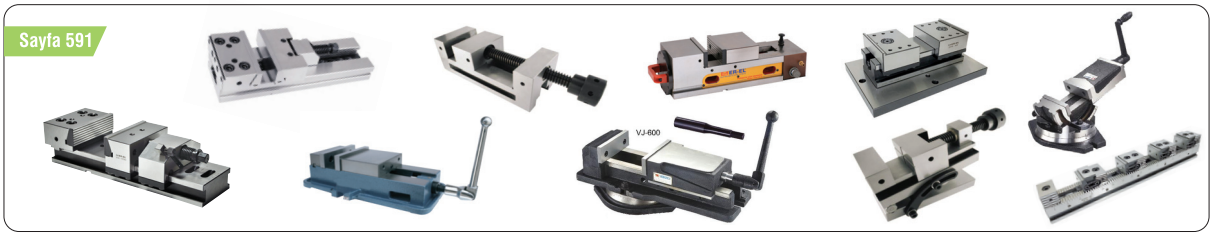


Sayfa 589
EDM 3R Sistem

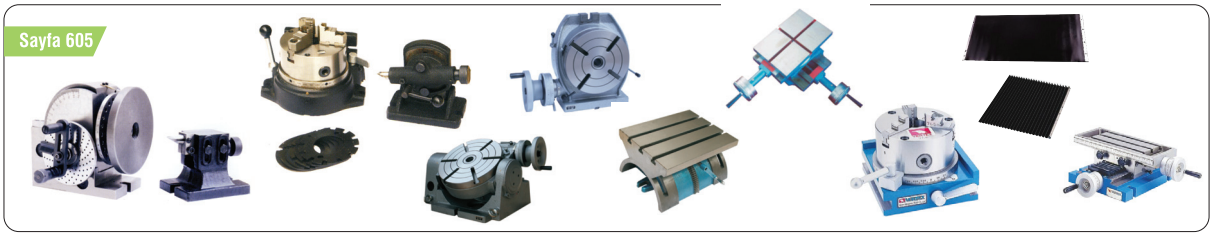
6 İŞ PARÇASI BAĞLAMA ve LIFTING ÜRÜNLER

Mengeneler ve İşleme Kuleleri 591

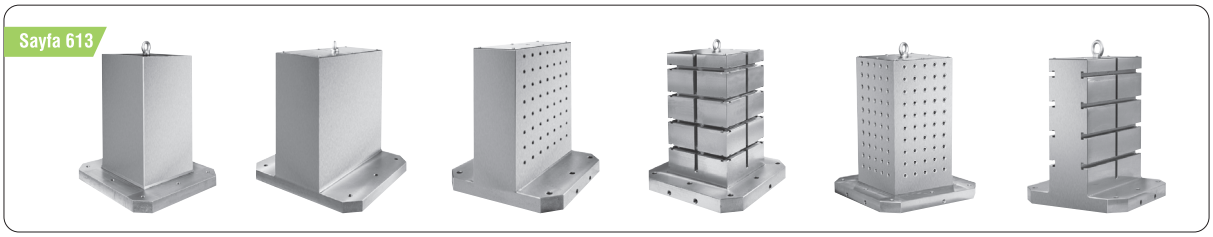
Sayfa 591



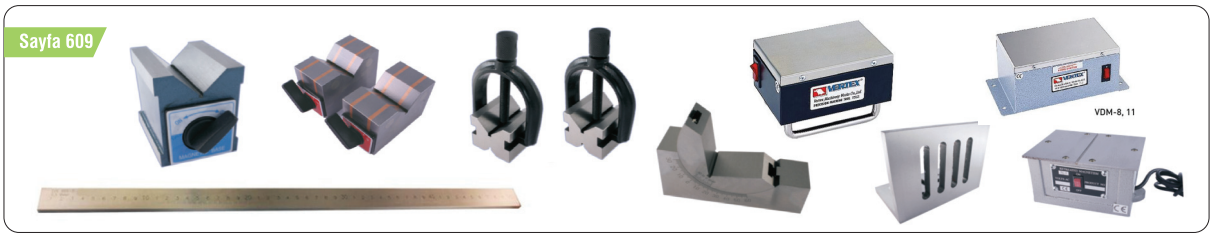
Sayfa 605



Sayfa 613



Sayfa 609



Lifthign Ürünler 618

Sayfa 618



Makinalar ve Civa Çelikleri 627

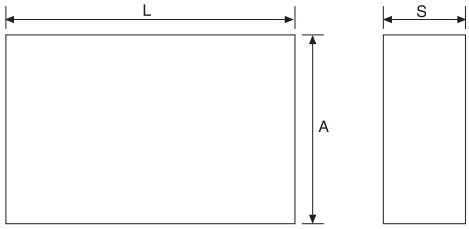
Sayfa 627



MSP Standart Kalıp Plakaları

Mat.: Müşteri Seçimli Materyal





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	196	●	●	●	●	●	●	●				
	246	●	●	●	●	●	●	●				
	296	●	●	●	●	●	●	●				
	346	●	●	●	●	●	●	●				
196	196	●	●	●	●	●	●	●				
	246	●	●	●	●	●	●	●				
	296	●	●	●	●	●	●	●	●			
	346	●	●	●	●	●	●	●	●			
	396	●	●	●	●	●	●	●	●			
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	696		●	●	●	●	●	●	●	●	●	
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	596			●	●	●	●	●	●	●	●	●
	646			●	●	●	●	●	●	●	●	●
	696			●	●	●	●	●	●	●	●	●
	746			●	●	●	●	●	●	●	●	●
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Standart kalıp plakaları hassas frezelenmiş ve taşlanmış müşterinin isteğine uygun boyutlarda kare , dikdörtgen veya isteğe göre şekillendirilerek hazırlanır.

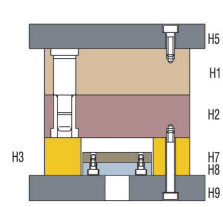
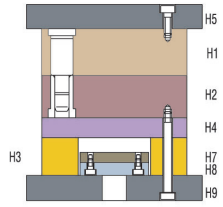
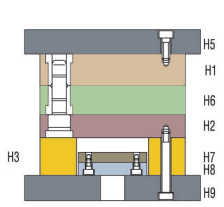
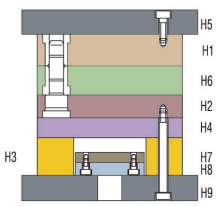
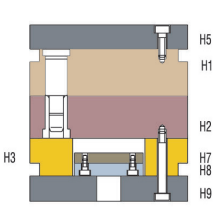
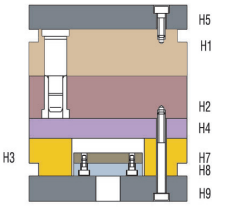
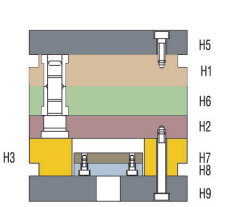
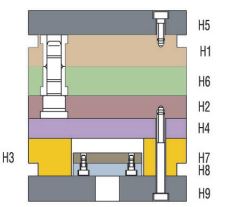
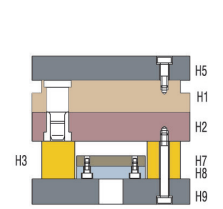
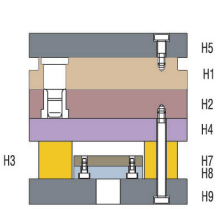
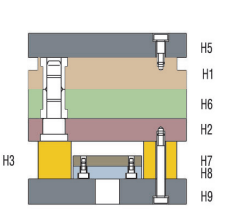
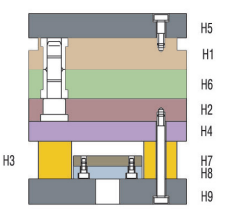
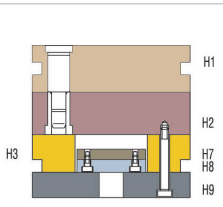
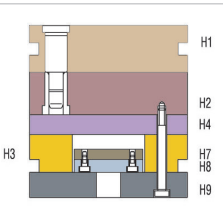
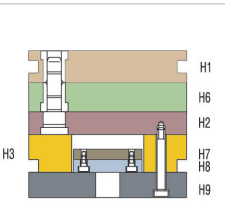
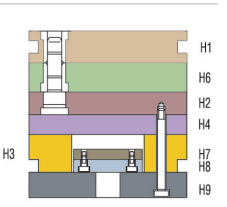
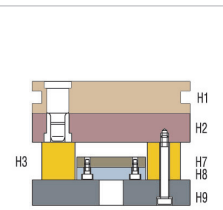
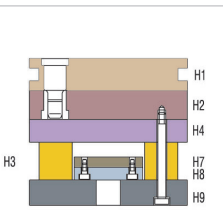
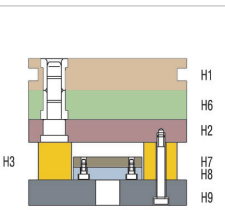
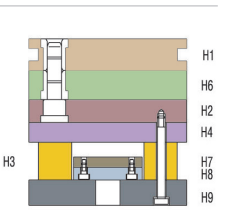
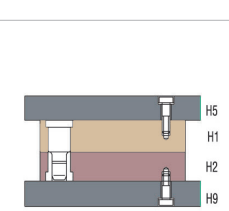
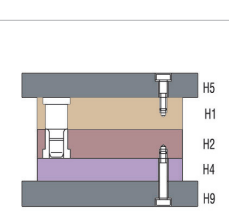
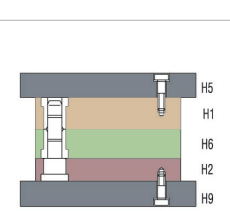
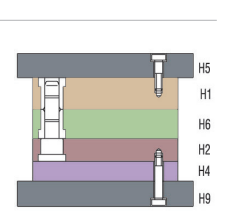
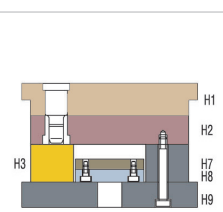
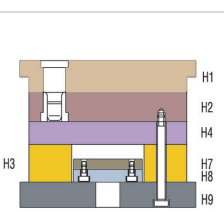
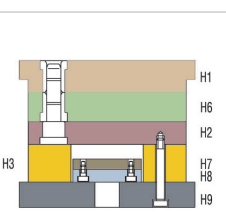
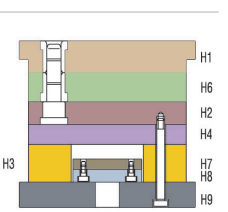
Müşterinin isteğine göre istenilen hassas töleranslarda uygulanabilir.

Müşteri sipariş verirken malzeme cinsibelirtmelidir, örneğin; CK45 (İmalat Çeliği), 2083, 2311, 2312, 2316, 2738 plastik kalıp çelikleri stoklarımızda bulunmakta veya 2 - 3 gün içerisinde teslimat sağlanmaktadır.

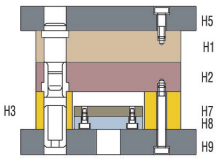
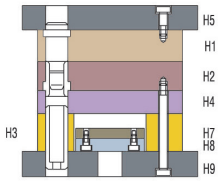
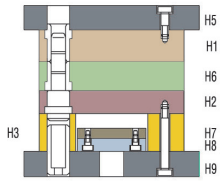
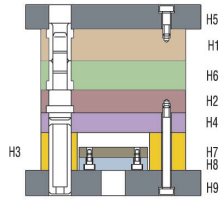
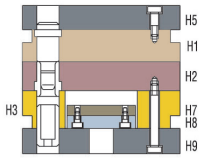
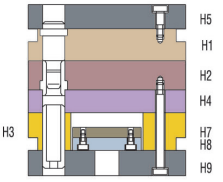
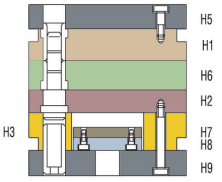
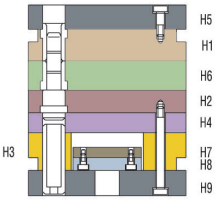
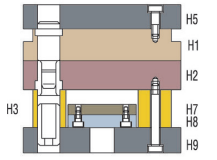
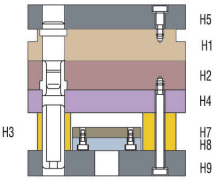
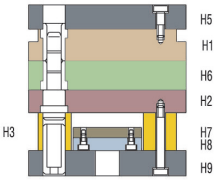
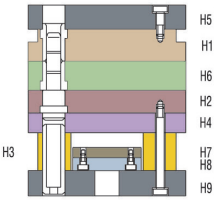
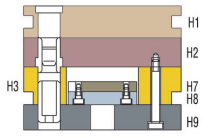
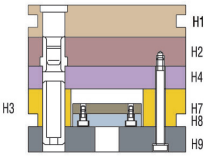
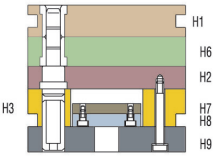
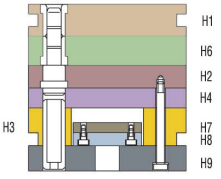
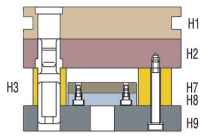
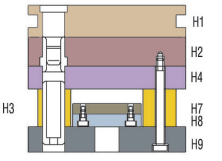
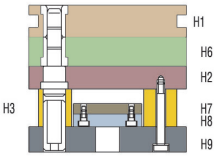
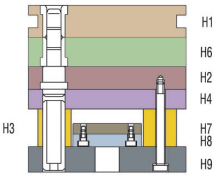
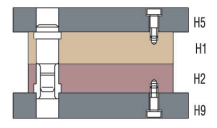
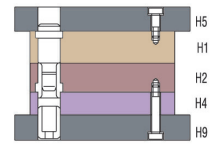
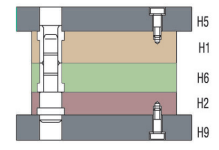
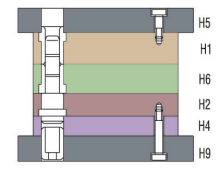
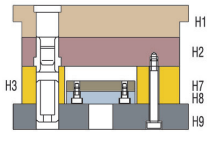
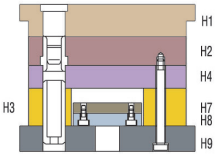
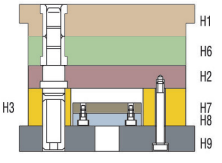
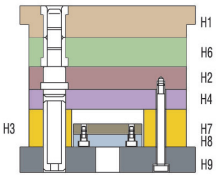
Sipariş Örneği

MSP-AxLxS - Malzeme Cinsi

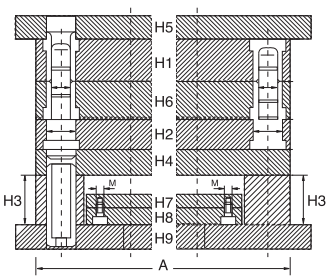
Standart Enjeksiyon Hazır Kalıp Seti Tipleri

	Tip 1	Tip 2	Tip 3	Tip 4
A				
B				
C				
D				
E				
F				
G				

Standart Enjeksiyon Hazır Kalıp Seti Tipleri

	Tip 5	Tip 6	Tip 7	Tip 8
A				
B				
C				
D				
E				
F				
G				

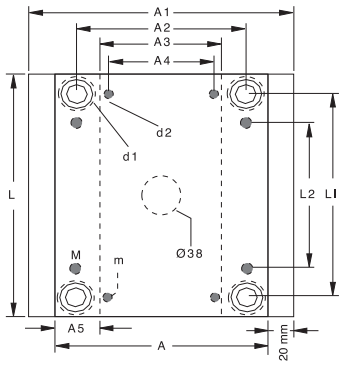
Standart Enjeksiyon Hazır Kalıp Setleri



Standart ve özel üretim olarak işleme alınır. Müşterinin isteğine göre kolon burçlu ayrıca parçalı gruplu standart montajlı yada taşlanmış plakalar halinde teslim edilebilir.

Sipariş Örneği

MHKS - A x L x H Ölçüleri - Malzeme



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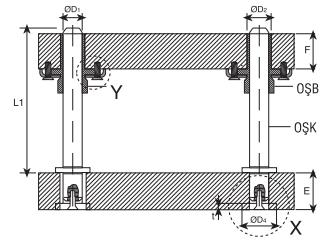
156	156	27-87	27-87	27-47	57-77	27	14-17	17	196	114	80	58	37	114	62	16	24	m8 1.25	M10 1.5
	196													154	102				
	246													204	152				
	296													254	202				
196	196								246	154	120-100	98-78	37-47	154	102	20	28		
	246													204	152				
	296													254	202				
	346													304	252				
	396													354	302				
246	246	27-97	27-97			27-37			296	194	148-128	130-110	47-57	194	134	25	34		M12 1.75
	296													244	184				
	346													294	234				
	396													344	284				
	446													394	334				
296	296	27-107	27-107	27-57	57-97		17-22	22	346	244	198-178	180-160		244	184				
	346													294	234				
	396													344	284				
	446													394	334				
	496													444	384				
346	346	37-107	27-107			37-47			396	294	248-228	224-204		294	218				
	396													344	268				
	446													394	318				
	496													444	368				
	546													494	418				
396	396	37-117	37-117		77-117	37-57	22-27	27	446	330	276-256	252-232	57-67	330	244	30	39	m10 1.5	M16 2.00
	446													380	294				
	496													430	344				
	546													480	394				
	596													530	444				
446	446			37-67					496	380	326-286	302-262	57-77	380	294				
	496													430	344				
	546													480	394				
	596													530	444				
	646													580	494				
496	496								546	430	376-336	352-312		430	344				
	546													480	394				
	596													530	444				
	646													580	494				
	696													630	544				
546	546	47-127	47-127	47-77	77-137	47-67	22-27	27-37	596	466	405-365	375-335	68-87	466	356	40	50	m12 1.75	M20 2.5
	596													516	406				
	646													566	456				
	696													616	506				
	746													666	556				
	796													716	606				
596	596								646	516	455-415	425-385		516	406				
	646													566	456				
	696													616	506				
	746													666	556				
	796													716	606				
646	646								696	566	505-465	475-435		566	456				
	696													616	506				
	746													666	556				
	796													716	606				
696	696								746	616	555-515	525-485		616	506				
	746													666	556				
	796													716	606				

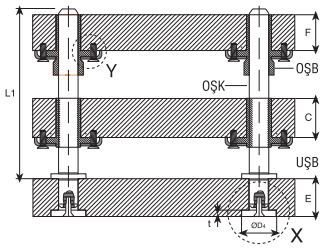
Dış Ölçüler / mm		Plaka Kalınlık / mm			Serbest Alan / mm			Kolon Ölçüsü	
A	L	e	f	c	k	y	z	M100	d x l1
156	156	27 37	27 37	27	100	100 140 190 240	128	Ø 20	100 112 125 140 160 200
196	196 246 296 346 396	27 37 47	27 37 47	27	132	132 182 232 282 332	164	Ø 25	100 112 125 140 160 180 200 250
246	246 296 346 396 446	37 47 57	37 47 57	27	174	174 224 274 324 374	210	Ø 30	112 125 140 160 180 200 250 315
296	296 346 396 446 496	37 47 57	37 47 57	27	224 212	224 274 324 374 412	210 254	Ø 30 Ø 40	112 125 140 160 180 200 250 315
346	346 396 446 496 546	37 47 57	37 47 57	27	224 262	274 324 374 412 462	310 304	Ø 30 Ø 40	112 125 140 160 180 200 250 315
396	396 446 496 546 596	47 57 67	47 57 67	37	312 300	312 362 412 462 500	354 348	Ø 40 Ø 50	125 140 160 180 200 250 315 355
446	446 496 546 596 646	47 57 67	47 57 67	37	362 350	362 412 462 500 550	404 398	Ø 40 Ø 50	125 140 160 180 200 250 315 355
496	496 546 596 646 696	57 67	57 67	37	400	400 450 500 550 600	448	Ø 50	140 160 180 200 250 315 355 400
546	546 596 646 696	47 57 67	47 57 67	47	450	450 500 550 600	461	Ø 50	160 180 200 250 315 355 400
596	596 646 696 746	57 67 77	47 57 67	47 57	484	484 534 584 634	498	Ø 60	160 180 200 250 315 355 400
646	646 696 746 796	57 67 77	47 57 67	47 57	534	534 584 634 684	548	Ø 60	160 180 200 250 315 355 400
696	696 746 796 846	57 67 77	47 57 67	47 57	584	584 634 684 734	598	Ø 60	160 180 200 250 315 355 400

Pres Sac Kalıp Set Tipleri

Sipariş Örneği

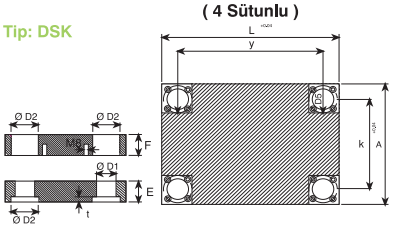
MPKS - A x L x Tip - e.f.c -dxl1



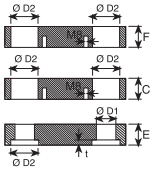


(4 Sütunlu)

Tip: DSK

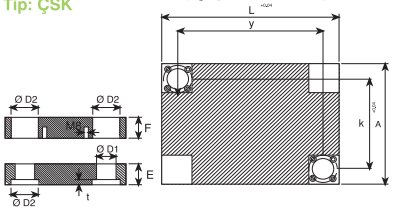


Tip: DSKK



(Çapraz Sütunlu)

Tip: ÇSK



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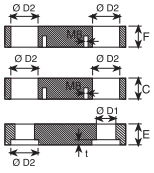
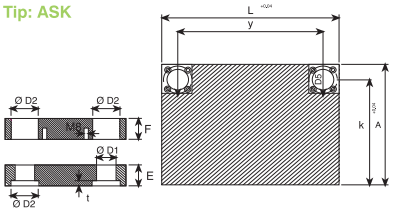
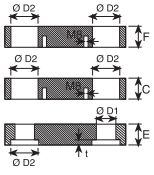


(Arkadan Sütunlu)

Tip: ASK



Tip: ASKK



(Ortadan Sütunlu)

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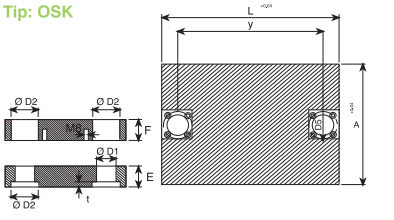
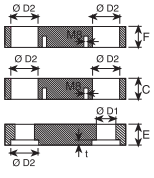


Tip: OSKK



Kolon ve Burçlar



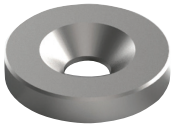
M100 Ortadan Şakpalı Kolon/ Guide Pillar

Malzeme: 1.1213 (Cf53) Sertlik: 62±2 HRC



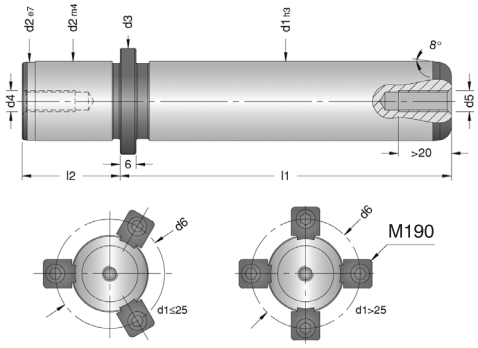
M2034

Kolon Montaj Flanşı



Sayfa 88

Kolon bağlama ve kalıp içi destek plakası olarak iki şekilde kullanılabilir.



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M100-15112 20		M100-16 11220		112			
M100-15125 20		M100-16 12520		125			
M100-15140 20	15	M100-16 14020	16	140	20	22	8
M100-15160 20		M100-16 16020		160			
M100-15180 20		M100-16 18020		180			
M100-15200 20		M100-16 20020		200			
M100-1910023		M100-2010023		100			
M100-19112 23		M100-20112 23		112			
M100-19125 23		M100-20125 23		125			
M100-19140 23	19	M100-20140 23	20	140	23	25	8
M100-19160 23		M100-20160 23		160			
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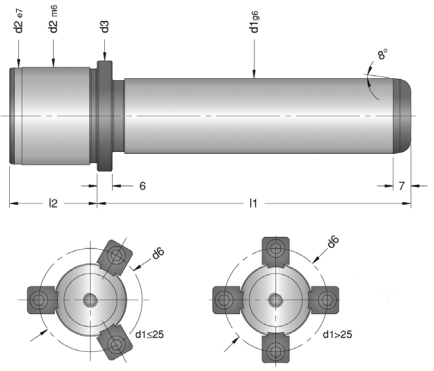
M100-24125 30		M100-25125 30		125			
M100-24140 30		M100-25140 30		140			
M100-24160 30	24	M100-25160 30	25	160	30	32	8
M100-24180 30		M100-25180 30		180			
M100-24 20030		M100-25200 30		200			
M100-24 22430		M100-25224 30		224			
M100-24250 30		M100-25250 30		250			
M100-24320 30		M100-25320 30		250			
M100-24350 30		M100-25350 30		250			
M100-3011237		M100-3211237		112			
M100-30125 37		M100-32125 37		125			
M100-30140 37		M100-32140 37		140			
M100-30160 37		M100-32160 37		160			
M100-30180 37	30	M100-32180 37	32	180	37	40	8
M100-30200 37		M100-32200 37		200			
M100-30224 37		M100-32224 37		224			
M100-30250 37		M100-32250 37		250			
M100-3028037		M100-3228037		280			
M100-3031537		M100-3231537		315			
M100-3035037		M100-3235037		350			

Sipariş Kodu	d1	Sipariş Kodu	d1	l1	l2	d3	M
M100-3812537		M100-4012537		125			
M100-38 14037		M100-4014037		140			
M100-38 16037		M100-4016037		160			
M100-38 18037		M100-4018037		180			
M100-38 20037	38	M100-4020037	40	200	37	50	8
M100-38 22437		M100-4022437		224			
M100-38 25037		M100-4025037		250			
M100-38 28037		M100-4028037		280			
M100-38 31537		M100-4031537		315			
M100-38 35537		M100-4035537		355			
M100-4814047		M100-5014047		140			
M100-48 16047		M100-5016047		160			
M100-48 18047		M100-5018047		180			
M100-48 20047		M100-5020047		200			
M100-48 22447	48	M100-5022447	50	224	47	63	8
M100-48 25047		M100-5025047		250			
M100-48 28047		M100-5028047		280			
M100-48 31547		M100-5031547		315			
M100-48 35547		M100-5035547		355			
M100-48 40047		M100-5040047		400			
M100-6016047		M100-6316047		160			
M100-60 18047		M100-63 18047		180			
M100-60 20047		M100-63 20047		200			
M100-60 22447		M100-63 22447		224			
M100-60 25047	60	M100-63 25047	63	250	47	80	8
M100-60 28047		M100-63 28047		280			
M100-60 31547		M100-63 31547		315			
M100-60 35547		M100-63 35547		355			
M100-60 40047		M100-63 40047		400			
		M100-8020060		200			
		M100-80 22460		224			
		M100-80 25060		250			
		M100-80 28060	80	280	60	95	12
		M100-80 31560		315			
		M100-80 35560		355			
		M100-80 40060		400			

M105 **Arkası Kalın Kolon**/ Guide Pillar

Malzeme: 1.1213 (Cf53) Sertlik: 62±2 HRC





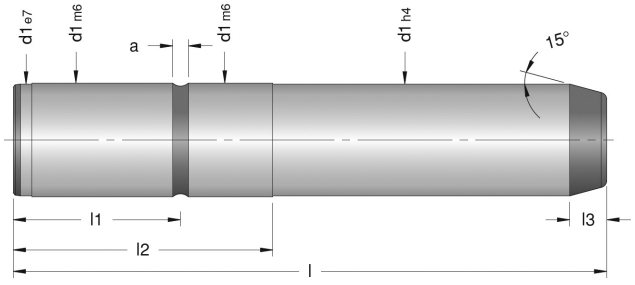
Sipariş Kodu	d1	l1	l2	d2	d3
M105/2010025	20	100	25	28	34
M105/2010035			35		
M105/2012525		125	25		
M105/2012535			35		
M105/2014025		140	25		
M105/2014035			35		
M105/2016025		160	25		
M105/2016035			35		
M105/2018025		180	25		
M105/2018035			35		
M105/2510025	25	100	25	34	39
M105/2510035			35		
M105/2512525		125	25		
M105/2512535			35		
M105/2514025		140	25		
M105/2514035			35		
M105/2516025		160	25		
M105/2516035			35		
M105/2518025		180	25		
M105/2518035			35		
M105/2520025		200	25		
M105/2518035			35		
M105/2522025		220	25		
M105/2522035			35		
M105/2524025		240	25		
M105/2524035			35		
M105/3012535	30	125	35	39	44
M105/3012545			45		
M105/3014035		140	35		
M105/3014045			45		
M105/3016035		160	35		
M105/3016045			45		
M105/3018035		180	35		
M105/3018045			45		

Sipariş Kodu	d1	l1	l2	d2	d3
M105/3020035	30	200	35	39	44
M105/3020045			45		
M105/3022035		220	35		
M105/3022045			45		
M105/3024035		240	35		
M105/3024045			45		
M105/3026035		260	35		
M105/3026045			45		
M105/3028035		280	35		
M105/3028045			45		
M105/3031535		315	35		
M105/3031545			45		

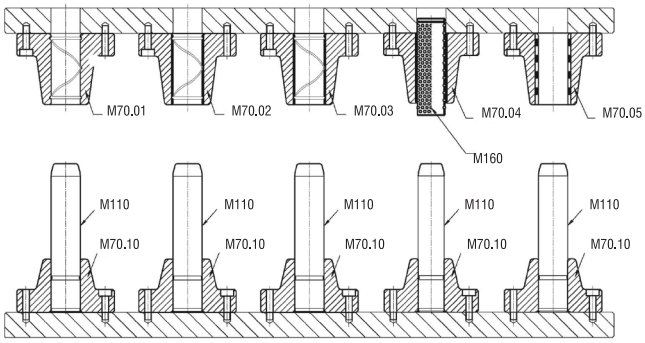
M110 **Döküm Blok Kolon**/ Guide Pillar

Mat.: 1-1213 (Cf 53) ≃62±2 HRC İndiksiyon





Sipariş Kodu	d1	L	l1	l2	a	l3
M110/40180	40	180	37	77	8	10
M110/40220		220				
M110/40260		260				
M110/40300		300				
M110/40355		355				
M110/40400		400				
M110/50200	50	200	47	95	8	10
M110/50240		240				
M110/50280		280				
M110/50315		315				
M110/50355		355				
M110/50400		400				
M110/50450		450				
M110/63240	63	240	60	120	8	10
M110/63280		280				
M110/63315		315				
M110/63355		355				
M110/63400		400				
M110/63450		450				
M110/80240	80	240	60	120	8	16
M110/80280		280				
M110/80315		315				
M110/80355		355				
M110/80400		400				
M110/80450		450				
M110/80500		500				

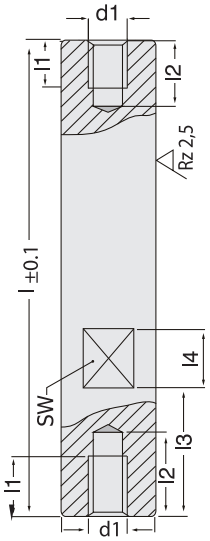


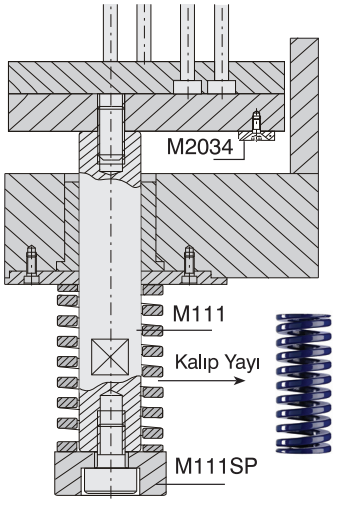
M111 Geri Vurucu Vidalı Kolon/ Guide Pillar

Mat.: 1-1213 (Cf 53) ≈ 58 - 62 HRC



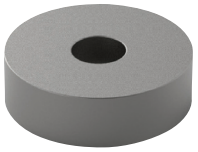
Sipariş Örneği M111/d x l

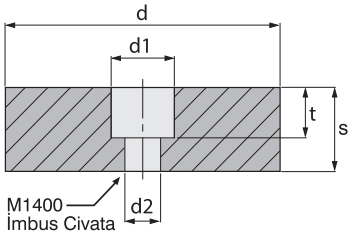




d	l	d1	l1	l2	l3	l4	sw
10	60	M6	10	14	21	10	8
	70						
	80						
	100						
	140						
14	60	M8	13	16	21	10	10
	80						
	100						
	120						
	140						
	180						
16	60	M10	16	20	21	10	12
	70						
	80						
	100						
	120						
	140						
	200						
18	100	M10	20	26	30	10	14
	120						
	140						
	160						
	180						
	200						
	220						
	240						
20	120	M12	24	30	40	16	14
	140						
	160						
	180						
	200						
	240						
24	120	M12	24	30	40	16	17
	140						
	160						
	180						
	200						
	240						
	260						
34	120	M16	34	40	50	16	24
	140						
	160						
	180						
	200						
	240						
	260						

M111SP Stoplama Pulu





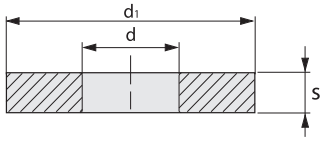
Sipariş Örneği M111SP/d

d	s	t	d1	d2
12	10	8.4	11	6.6
22	14	11	14.5	9
36	20	13.5	17.5	11
46	25	15.5	20	14
56	32	21	26	18

M111MP Kalıp İçi Montaj Pulu

DIN 6340





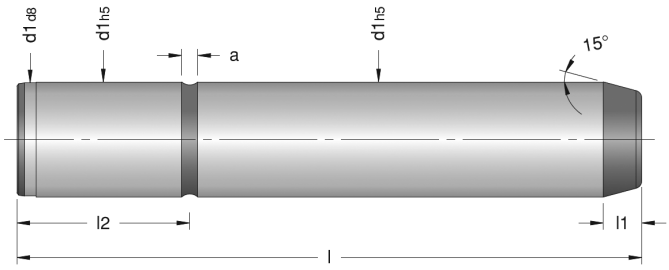
Sipariş Örneği M111MP/Form

Form	d	d1	h	Ağırlık
M6	6.4	17	3	6 gr.
M8	8.4	23	4	10 gr.
M10	10.5	28	4	16 gr.
M12	13	35	5	35 gr.
M14	15	40	5	40 gr.
M16	17	45	6	60 gr.
M18	19	45	6	60 gr.
M20	21	50	6	75 gr.

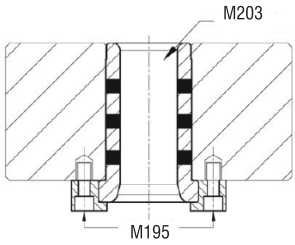
M112 **Kolon Afnor**/ Guide Pillar

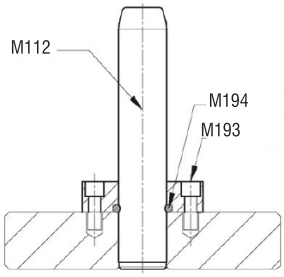
Mat.: 1-1213 (Cf 53) ≃ 62±2 HRC İndiksiyon





Sipariş Kodu	PSA Mabec Code	RENAULT Mabec Code	d1	l	l1	l2	a
M112/25100			25	100	8	25	2.5
M112/25125		R100 018 363		125			
M112/25140				140			
M112/25160				160			
M112/25180				180			
M112/25200				200			
M112/25220				220			
M112/32125			32	125	10	32	4.2
M112/32140		P446 116 817		140			
M112/32160		P446 116 815		160			
M112/32180				180			
M112/32200		P446 116 816		200			
M112/32220				220			
M112/32250				250			
M112/40180	P446 117 470		40	180	12	63	4.2
M112/40200	P446 117 401			200			
M112/40220	P446 117 476			220			
M112/40250				250			
M112/40280				280			
M112/40315				315			
M112/50200			50	200	16	80	4.2
M112/50220	P446 118 170			220			
M112/50224		P446 118 100		224			
M112/50250	P446 118 174			250			
M112/50280	P446 118 101	P446 118 101		280			
M112/50315				315			
M112/50355				355			
M112/50400				400			
M112/63250	P446 118 701	P446 118 701	63	250	16	100	6.2
M112/63280		P446 118 707		280			
M112/63315	P446 118 702	P446 118 702		315			
M112/63355				355			
M112/63400				400			
M112/80315	P446 119 200	P446 119 200	80	315	16	125	6.2
M112/80355	P446 119 270	P446 119 201		355			
M112/80400		R100 221 692		400			
M112/80450				450			
M112/100355			100	355	16	160	6.2
M112/100400		P446 119 800		400			
M112/100450		P446 119 801		450			
M112/100500				500			

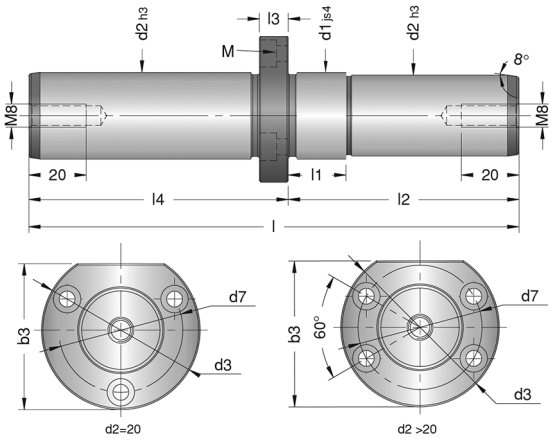




M113 **Sıyırıcı Bağlantılı Kolon** / Guide Pillar

Mat.: 1.1213 (Cf53) HRC 62 ±2 İndüksiyon



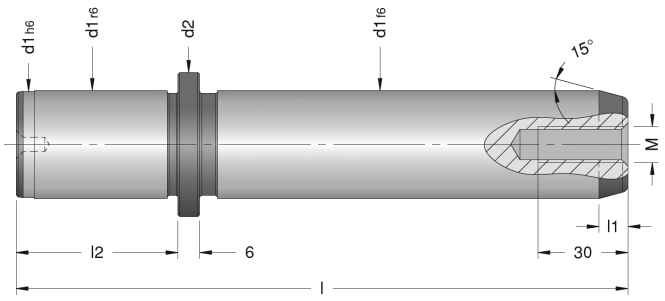


Sipariş Kodu	l4	l2	b3	d1	d3	d7	l	l1	l3	M	d2
M113/90100	90	100	55	34	60	48	190	27	10	M5	32
M113/90110	90	110					200				
M113/100160	100	160					260				
M113/110110	110	110					220				
M113/110120	110	120					230				
M113/130120	130	120					250				
M113/130130	130	130					260				
M113/100110	100	110	65	42	70	56	210	27	12	M6	40
M113/100120	100	120					220				
M113/120120	120	120					240				
M113/120130	120	130					250				
M113/140130	140	130					270				
M113/130120	130	120	75	52	80	66	250	36	15	M6	50
M113/150110	150	110					260				
M113/150120	150	120					270				

M113-1 **Kılavuz Kolon NAAMS** / Guide Pillar

Mat.: 1-1213 (Cf 53) ≂62±2 HRC İndiksiyon





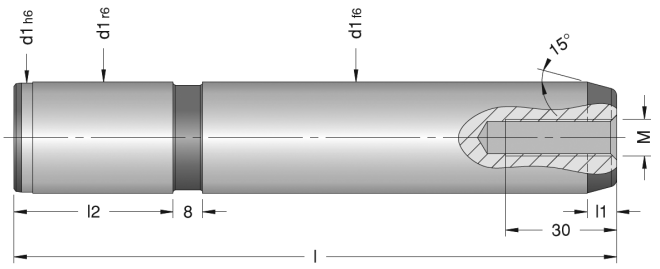
Sipariş Kodu	FORD CODE WDX1365	d1	l	d2	l2	l1	M
M113-1/25140	20025140	**25**	140	33	40	4	-
M113-1/25160	20025160		160				
M113-1/25180	20025180		180				
M113-1/32140	20032140	**32**	140	40	45	8	-
M113-1/32160	20032160		160				
M113-1/32180	20032180		180				
M113-1/32200	20032200		200				
M113-1/40160	20040160	**40**	160	50	56	8	-
M113-1/40180	20040180		180				
M113-1/40200	20040200		200				
M113-1/40224	20040225		225				
M113-1/40250	20040250		250				
M113-1/50160	20050160	**50**	160	60	70	10	-
M113-1/50180	20050180		180				
M113-1/50200	20050200		200				
M113-1/50224	20050225		225				
M113-1/50250	20050250		250				
M113-1/50280	20050280		280				
M113-1/50315	20050315		315				
M113-1/63200	20063200	**63**	200	80	80	10	-
M113-1/63224	20063225		225				
M113-1/63250	20063250		250				
M113-1/63280	20063280		280				
M113-1/63315	20063315		315				
M113-1/63355	20063355		355				
M113-1/63400	20063400		400				
M113-1/80250	20080250	**80**	250	90	100	16	M12
M113-1/80280	20080280		280				
M113-1/80315	20080315		315				
M113-1/80355	20080355		355				
M113-1/80400	20080400		400				
M113-1/80500	20080500		500				
M113-1/100315	20100315	**100**	315	110	125	16	M12
M113-1/100355	20100355		355				
M113-1/100400	20100400		400				
M113-1/100500	20100500		500				

1xM12 Diş Sadece Ø80 ve Ø100
1xM12 Guide Post only Ø80 and Ø100

M113-2 Kılavuz Kolon NAAMS/ Guide Pillar

Mat.: 1-1213 (Cf 53) ≃ 62±2 HRC İndiksiyon





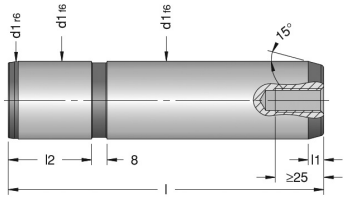
Sipariş Kodu	FORD CODE WDX1365	d1	l	l2	l1	M
M113-2/25140	22025140	25	140	40	4	
M113-2/25160	22025160		160			
M113-2/25180	22025180		180			
M113-2/32140	22032140	32	140	45	8	
M113-2/32160	22032160		160			
M113-2/32180	22032180		180			
M113-2/32200	22032200		200			
M113-2/40160	22040160	40	160	56	8	
M113-2/40180	22040180		180			
M113-2/40200	22040200		200			
M113-2/40224	22040225		225			
M113-2/40250	22040250		250			
M113-2/50160	22050160	50	160	70	10	
M113-2/50180	22050180		180			
M113-2/50200	22050200		200			
M113-2/50224	22050225		225			
M113-2/50250	22050250		250			
M113-2/50280	22050280		280			
M113-2/50315	22050315		315			
M113-2/63200	22063200	63	200	80	10	
M113-2/63224	22063225		225			
M113-2/63250	22063250		250			
M113-2/63280	22063280		280			
M113-2/63315	22063315		315			
M113-2/63355	22063355		355			
M113-2/63400	22063400		400			
M113-2/80250	22080250	80	250	100	16	M12
M113-2/80280	22080280		280			
M113-2/80315	22080315		315			
M113-2/80355	22080355		355			
M113-2/80400	22080400		400			
M113-2/100315	22100315	100	315	125	16	M12
M113-2/100355	22100355		355			
M113-2/100400	22100400		400			
M113-2/100500	22100500		500			

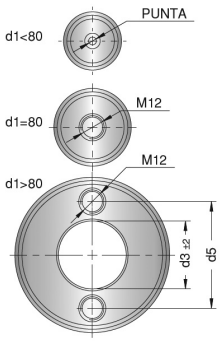
1xM12 Diş Sadece Ø80 ve Ø100
1xM12 Guide Post only Ø80 and Ø100

M115 **Kolon**/ Guide Pillar

Mat.: 1-1213 (Cf 53) ≂62±2 HRC İndiksiyon







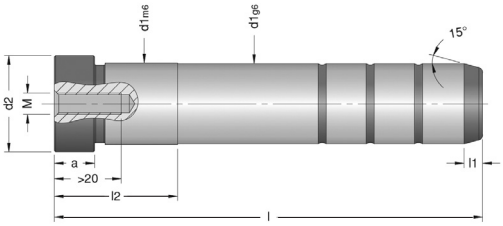
Sipariş Kodu	d1	l	d3	d5	l1	l2
M115/25125	25	125			8	40
M115/25140		140				
M115/25160		160				
M115/25180		180				
M115/25200		200				
M115/25224		224				
M115/32125	32	125			8	45
M115/32140		140				
M115/32160		160				
M115/32180		180				
M115/32200		200				
M115/32224		224				
M115/32250		250				
M115/40140	40	140			8	56
M115/40160		160				
M115/40180		180				
M115/40200		200				
M115/40224		224				
M115/40250		250				
M115/40280		280				
M115/50160	50	160			10	70
M115/50180		180				
M115/50200		200				
M115/50224		224				
M115/50250		250				
M115/50280		280				
M115/50315		315				
M115/50355		355				
M115/63180	63	180			10	80
M115/63200		200				
M115/63224		224				
M115/63250		250				
M115/63280		280				
M115/63315		315				
M115/63355		355				
M115/63400		400				

Sipariş Kodu	PSA Mabec Code	d1	l	d3	d5	l1	l2
M115/63224		80	224			10	100
M115/63250			250				
M115/63280			280				
M115/63315			315				
M115/63355			355				
M115/63400			400				
M115/63450			450				
M115/63500			500				
M115/100250		100	250	50	72	10	125
M115/100280			280				
M115/100315			315				
M115/100355	Z000499647		355				
M115/100400			400				
M115/100450			450				
M115/100500			500				
M115/12531		125	315	65	90	12	140
M115/125355			355				
M115/125400	Z000499648		400				
M115/125450			450				
M115/125500			500				
M115/160400		160	400	95	132	12	180
M115/160450			450				
M115/160500			500				
M115/160560			560				

M101 Şapkalı Kolon / Guide Pillar

Mat.: 1.1213 (Cf 53) ≈ 62±2 HRC





!Önemli Not

d1 ölçüsü Ø 12,14,16,18,20 olan ürünlerin ayrıca kafa kalınlığı (a ölçüsü) 10mm mevcuttur. Ø 30 olan ürünlerinde (a ölçüsü) 12mm,şapka çapı (d2 ölçüsü) 34mm olarak stoklarda mevcuttur. Yerli standarttır. M101Y kodu ile sipariş verilebilir.

Sipariş Örneği : M101Y/20x100

Sipariş Kodu	d1	l	l1	l2	d2	a	M
M101/10040	10	40	4	17	12	3	M4
M101/10060		60					
M101/10080		80		22			
M101/10100		100		27			
M101/10120		120					
M101/12040	12	40	4	17	16	6	M4
M101/12060		60		22			
M101/12080		80		27			
M101/12100		100					
M101/12120		120		36			
M101/12140		140					
M101/12160		160					
M101/12180		180				10	
M101/14060	14	60	7	17	18	8	M4
M101/14080		80		22			
M101/14100		100		27			
M101/14120		120					
M101/14140		140		36			
M101/14160		160					
M101/14180		180		46			
M101/16040	16	40	7	22	20	8	M6
M101/16060		60		27			
M101/16080		80					
M101/16100		100		36			
M101/16120		120					
M101/16140		140					
M101/16160		160		46			
M101/16180		180					
M101/16200		200		56		10	
M101/16220		220					
M101/16250		250					
M101/16300		300					
M101/18060	18	60	7	27	22	8	M6
M101/18080		80					
M101/18100		100		36			
M101/18120		120					
M101/18140		140					

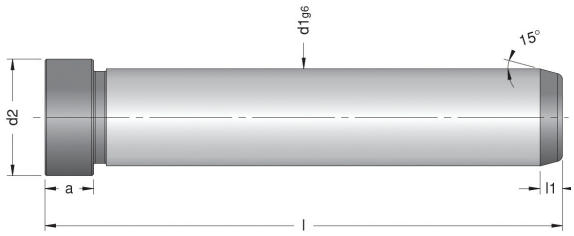
Sipariş Kodu	d1	l	l1	l2	d2	a	M
M101/18160	18	160		46	22	8	M6
M101/18180		180					
M101/18200		200		56			
M101/18240		240					
M101/20060	20	60	7	27	24	8	M8
M101/20080		80					
M101/20100		100					
M101/20120		120		36			
M101/20140		140					
M101/20160		160		46			
M101/20180		180					
M101/20200		200		56			
M101/20220		220				10	
M101/20240		240		76		8	
M101/20250		250				10	
M101/20300		300					
M101/20320		320					
M101/22080	22	80	7	36	26	15	M8
M101/22100		100					
M101/22120		120					
M101/22140		140					
M101/22160		160		46			
M101/22180		180		56			
M101/22200		200					
M101/22220		220					
M101/22240		240		66			
M101/22300		300					
M101/24080	24	80	7	36	28	15	M8
M101/24100		100					
M101/24120		120					
M101/24140		140					
M101/24160		160		46			
M101/24180		180		56			
M101/24200		200					
M101/24220		220					
M101/24240		240		66			
M101/24300		300					

Sipariş Kodu	d1	l	l1	l2	d2	a	M
M101/25080	25	80	7	35	29	10	M8
M101/25100		100					
M101/25120		120					
M101/25140		140					
M101/25160		160					
M101/25180		180					
M101/25200		200					
M101/25220		220					
M101/25240		240					
M101/25250		250					
M101/25300		300					
M101/25320		320					
M101/25350		350					
M101/30100	30	100	7	36	36	15	M8
M101/30120		120					
M101/30140		140					
M101/30160		160		46			
M101/30180		180		56			
M101/30200		200		66			
M101/30220		220					
M101/30240		240		76			
M101/30280		280				12	
M101/30300		300				15	
M101/30320		320				12	
M101/30360		360					
M101/30400		400					
M101/40160	40	160	10	46	48	15	M10
M101/40180		180		56			
M101/40200		200		66			
M101/40220		220					
M101/40240		240		76			
M101/40280		280					
M101/40300		300					
M101/40320		320					
M101/40360		360					
M101/50160	50	160	10	56	58	15	M10
M101/50200		200					
M101/50240		240					
M101/50300		300		66			
M101/50360		360		76			

M101D Şapkalı Kolon Yağ Kanalsız/ Guide Pillar

Mat.: 1.1213 (Cf 53) ≂ 62±2 HRC





Sipariş Kodu	d1	l	l1	d2	a
M101D-10040	**10**	40	4	12	3
M101D-10060		60			
M101D-10080		80			
M101D-10100		100			
M101D-10120		120			
M101D-12040	**12**	40	4	16	6
M101D-12060		60			
M101D-12080		80			
M101D-12100		100			
M101D-12120		120			
M101D-12140		140			
M101D-12160		160			
M101D-14060	**14**	60	7	18	8
M101D-14080		80			
M101D-14100		100			
M101D-14120		120			
M101D-14140		140			
M101D-14160		160			
M101D-14180		180			
M101D-16040	**16**	40	7	20	8
M101D-16060		60			
M101D-16080		80			
M101D-16100		100			
M101D-16120		120			
M101D-16140		140			
M101D-16160		160			
M101D-16180		180			
M101D-16200		200			
M101D-18060	**18**	60	7	22	8
M101D-18080		80			
M101D-18100		100			
M101D-18120		120			
M101D-18140		140			
M101D-18160		160			
M101D-18180		180			
M101D-18200		200			
M101D-18240		240			

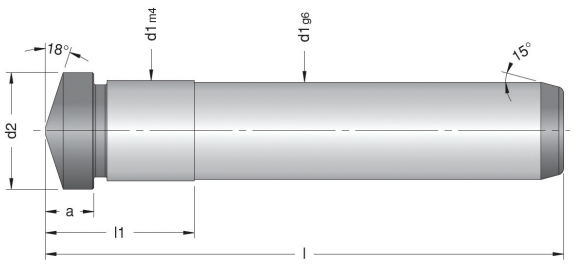
Sipariş Kodu	d1	l	l1	d2	a
M101D-20060	**20**	60	7	24	8
M101D-20080		80			
M101D-20100		100			
M101D-20120		120			
M101D-20140		140			
M101D-20160		160			
M101D-20180		180			
M101D-20200		200			
M101D-20240		240			
M101D-22080	**22**	80	7	26	15
M101D-22100		100			
M101D-22120		120			
M101D-22140		140			
M101D-22160		160			
M101D-22180		180			
M101D-22200		200			
M101D-22220		220			
M101D-22240		240			
M101D-22300		300			
M101D-24080	**24**	80	7	28	15
M101D-24100		100			
M101D-24120		120			
M101D-24140		140			
M101D-24160		160			
M101D-24180		180			
M101D-24200		200			
M101D-24220		220			
M101D-24240		240			
M101D-24300		300			

Sipariş Kodu	d1	l	l1	d2	a
M101D-30100	**30**	100	7	36	15
M101D-30120		120			
M101D-30140		140			
M101D-30160		160			
M101D-30180		180			
M101D-30200		200			
M101D-30220		220			
M101D-30240		240			
M101D-30300		300			
M101D-30360		360			
M101D-40160	**40**	160	10	48	15
M101D-40180		180			
M101D-40200		200			
M101D-40220		220			
M101D-40240		240			
M101D-40280		280			
M101D-40300		300			
M101D-40320		320			
M101D-40360		360			
M101D-50160	**50**	160	10	58	15
M101D-50200		200			
M101D-50240		240			
M101D-50300		300			
M101D-50360		360			

M101A Şapkalı Kolon Açı Başlı / Guide Pillar

Mat.: 1.1213 (Cf 53) ≈ 62±2 HRC





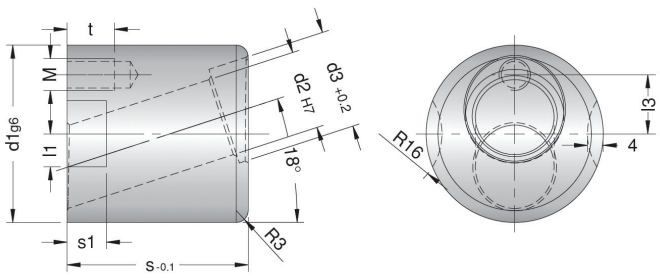
Sipariş Kodu	d1	l	l1	l2	d2	k
M101A/ 12x60	12	60	34	4	16	6
M101A/ 12x80		80				
M101A/ 12x100		100				
M101A/ 12x120		120				
M101A/ 12x140		140				
M101A/ 12x160		160				
M101A/ 14x60	14	60	34	4	18	8
M101A/ 14x80		80				
M101A/ 14x100		100				
M101A/ 14x120		120				
M101A/ 14x140		140				
M101A/ 14x160		160				
M101A/ 14x180		180				
M101A/ 16x60	16	60	43	7	20	8
M101A/ 16x80		80				
M101A/ 16x100		100				
M101A/ 16x120		120				
M101A/ 16x140		140				
M101A/ 16x160		160				
M101A/ 16x180		180				
M101A/ 16x200		200				
M101A/ 20x60	20	60	43	7	20	8
M101A/ 20x80		80				
M101A/ 20x100		100				
M101A/ 20x120		120				
M101A/ 20x140		140				
M101A/ 20x160		160				
M101A/ 20x180		180				
M101A/ 20x200		200				
M101A/ 20x240		240				
M101A/ 25x80	25	80	52	7	28	15
M101A/ 25x100		100				
M101A/ 25x120		120				
M101A/ 25x140		140				
M101A/ 25x160		160				
M101A/ 25x180		180				
M101A/ 25x200		200				

Sipariş Kodu	d1	l	l1	l2	d2	k
M101A/ 25x220	25	220	52	7	28	15
M101A/ 25x240		240				
M101A/ 25x300		300				
M101A/ 30x100	30	100	60	7	36	15
M101A/ 30x120		120				
M101A/ 30x140		140				
M101A/ 30x160		160				
M101A/ 30x180		180				
M101A/ 30x200		200				
M101A/ 30x220		220				
M101A/ 30x240		240				
M101A/ 30x300		300				

M1110 **Açılı Burç** / Maça Pimi Tutucusu

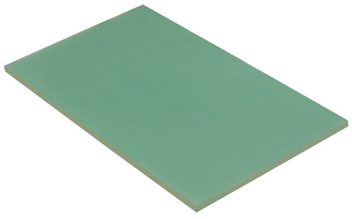
Mat.: 1.7131 (16MnCr5) ≂ 62±2 HRC / Induction

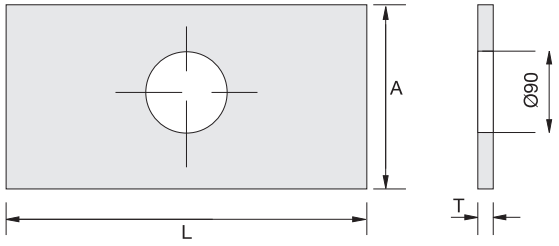




Sipariş Kodu	d2 H7	s -0,1	d1 q6	a	d3 +0,2	l1 ±0,15	l3	d5	t
M1110/12	**12**	36	32	6	17	7	10	M6	11
M1110/14	**14**	36	36	8	19	7	12	M8	16
M1110/16	**16**	46	40	8	21	8.5	13.5	M8	16
M1110/20	**20**	46	45	8	25	8.5	15	M8	16
M1110/25	**25**	56	50	15	29	10	16	M8	16
M1110/30	**30**	66	63	15	37	12	21	M10	20

MYP **Isı Yalıtım Plakaları**





Isı yalıtım plakaları 240° ısıya dayanıklı epoksi levhalardır, plakalar Asbest içermez sürtünmeden, darbeden, sudan ve elektrikten etkilenmez cm^2'de 1800 ton basınça dayanıklıdır. Aynı zamanda kalıbın görünüm standartını da yükseltir. İsteğe bağlı olarak farklı ölçüler temin edilir.

Sipariş Örneği MYP/AxLxKalınlık

Kalınlık 6mm	A x L	
156x156	296x296	546x546
156x196	346x346	596x596
196x196	346x396	446x646
196x246	396x396	546x646
246x246	446x446	496x746
246x296	496x496	596x796

Kalınlık 6mm	A x L	
246x246	446x446	496x746
246x296	496x496	596x796
296x296	546x546	550x870
346x346	596x596	550x879
346x396	446x646	740x794
496x396	546x646	435x870

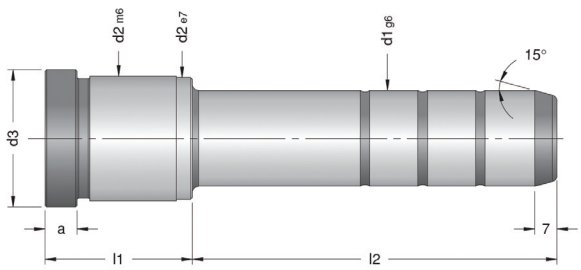
Kalınlık 6mm	A x L	
246x246	446x446	496x746
246x296	496x496	596x796
296x296	546x546	550x870
346x346	596x596	550x879
346x396	446x646	740x794
496x396	546x646	435x870

M102

Kademeli Kolon / Guide Pillar

Mat.: 1.1213 (Cf 53) ≃ 60 HRC / Induction



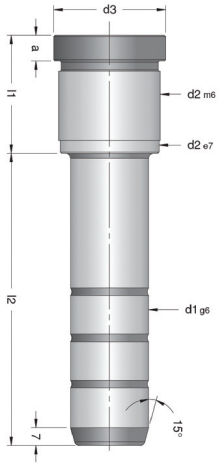


Sipariş Kodu	d1	l1	l2	d2	d3	a
M102-12026026	12	26	26	16	19	4
M102-12026036			36			
M102-12026046			46			
M102-12026056			56			
M102-12036026	12	36	26	16	19	4
M102-12036036			36			
M102-12036046			46			
M102-12036056			56			
M102-12046026	12	46	26	16	19	4
M102-12046036			36			
M102-12046046			46			
M102-12046056			56			
M102-12046066			66			
M102-14026026	14	26	26	20	25	6
M102-14026036			36			
M102-14026046			46			
M102-14026056			56			
M102-14026066			66			
M102-14026076			76			
M102-14036026	14	36	26	20	25	6
M102-14036036			36			
M102-14036046			46			
M102-14036056			56			
M102-14036066			66			
M102-14036086			86			
M102-14046026	14	46	26	20	25	6
M102-14046036			36			
M102-14046046			46			
M102-14046056			56			
M102-14046076			76			
M102-14046096			96			

Sipariş Kodu	d1	l1	l2	d2	d3	a
M102-14056026	14	56	26	20	25	6
M102-14056036			36			
M102-14056046			46			
M102-14056066			66			
M102-14056086			86			
M102-14056106			106			
M102-16026026	16	26	26	24	28	6
M102-16026036			36			
M102-16026046			46			
M102-16026056			56			
M102-16026076			76			
M102-16026096			96			
M102-16036026	16	36	26	24	28	6
M102-16036036			36			
M102-16036046			46			
M102-16036056			56			
M102-16036066			66			
M102-16036086			86			
M102-16036106			106			
M102-16046026	16	46	26	24	28	6
M102-16046036			36			
M102-16046046			46			
M102-16046056			56			
M102-16046066			66			
M102-16046076			76			
M102-16046096			96			
M102-16046116			116			
M102-16056026	16	56	26	24	28	6
M102-16056036			36			
M102-16056046			46			
M102-16056056			56			

Sipariş Kodu	d1	l1	l2	d2	d3	a
M102-16056066			66			
M102-16056076	**16**	56	76	24	28	6
M102-16056096			96			
M102-16056116			116			
M102-16066026			26			
M102-16066036			36			
M102-16066046			46			
M102-16066056			56			
M102-16066066	**16**	66	66	24	28	6
M102-16066076			76			
M102-16066086			86			
M102-16066106			106			
M102-16066116			116			
M102-16076026			26			
M102-16076036			36			
M102-16076046			46			
M102-16076056	**16**	76	56	24	28	6
M102-16076066			66			
M102-16076076			76			
M102-16076096			96			
M102-16076116			116			
M102-16086026			26			
M102-16086036			36			
M102-16086046			46			
M102-16086056	**16**	86	56	24	28	6
M102-16086066			66			
M102-16086076			76			
M102-16086096			96			
M102-16086116			116			
M102-18026026			26			
M102-18026036			36			
M102-18026046			46			
M102-18026056	**18**	26	56	26	31	6
M102-18026066			66			
M102-18026086			86			
M102-18036026			26			
M102-18036036			36			
M102-18036046			46			
M102-18036056	**18**	36	56	26	31	6
M102-18036066			66			
M102-18036086			86			
M102-18036106			106			
M102-18046026			26			
M102-18046036			36			
M102-18046046			46			
M102-18046056	**18**	46	56	26	31	6
M102-18046066			66			
M102-18046086			86			
M102-18046106			106			
M102-18046126			126			
M102-18056026			26			
M102-18056036			36			
M102-18056046	**18**	56	46	26	31	6
M102-18056056			56			
M102-18056066			66			
M102-18056086			86			

Sipariş Kodu	d1	l1	l2	d2	d3	a
M102-18056106	**18**	56	106	26	31	6
M102-18056126			126			
M102-18066026			26			
M102-18066036			36			
M102-18066056	**18**	66	56	26	31	6
M102-18066076			76			
M102-18066096			96			
M102-18066116			116			
M102-18076026			26			
M102-18076046			46			
M102-18076066	**18**	76	66	26	31	6
M102-18076086			86			
M102-18076106			106			
M102-18076126			126			
M102-18086026			26			
M102-18086046			46			
M102-18086066	**18**	86	66	26	31	6
M102-18086086			86			
M102-18086106			106			
M102-18086126			126			
M102-20026026			26			
M102-20026036			36			
M102-20026046			46			
M102-20026056	**20**	26	56	28	32	6
M102-20026066			66			
M102-20026086			86			
M102-20036026			26			
M102-20036036			36			
M102-20036046			46			
M102-20036056	**20**	36	56	28	32	6
M102-20036066			66			
M102-20036076			76			
M102-20036096			96			
M102-20046026			26			
M102-20046036			36			
M102-20046046			46			
M102-20046056	**20**	46	56	28	32	6
M102-20046066			66			
M102-20046076			76			
M102-20046086			86			
M102-20046106			106			
M102-20056026			26			
M102-20056036			36			
M102-20056046			46			
M102-20056056	**20**	56	56	28	32	6
M102-20056066			66			
M102-20056076			76			
M102-20056096			96			
M102-20056116			116			
M102-20066026			26			
M102-20066036			36			
M102-20066046			46			
M102-20066056	**20**	66	56	28	32	6
M102-20066066			66			
M102-20066076			76			
M102-20066096			96			



Sipariş Kodu	d1	l1	l2	d2	d3	a
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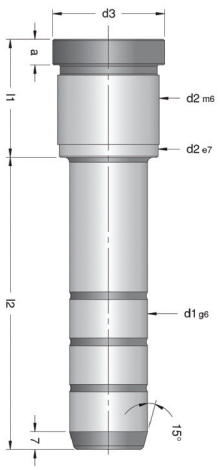
M102-20076026			26	28		
M102-20076036			36			
M102-20076046			46			
M102-20076056			56			
M102-20076066	**20**	76	66		32	6
M102-20076076			76			
M102-20076086			86			
M102-20076106			106			
M102-20076126			126			
M102-20086026			26			
M102-20086036			36			
M102-20086046			46			
M102-20086056	**20**	86	56	28	32	6
M102-20086066			66			
M102-20086076			76			
M102-20086086			86			
M102-20086126			126			
M102-20096026			26			
M102-20096036			36			
M102-20096046			46			
M102-20096056			56			
M102-20096066	**20**	96	66	28	32	6
M102-20096076			76			
M102-20096086			86			
M102-20096106			106			
M102-20096126			126			
M102-25026026			26			
M102-25026036			36			
M102-25026046			46			
M102-25026056	**25**	26	56	34	38	8
M102-25026066			66			
M102-25026076			76			
M102-25026096			96			
M102-25036026			26			
M102-25036036			36			
M102-25036046			46			
M102-25036056	**25**	36	56	34	38	8
M102-25036066			66			
M102-25036076			76			
M102-25036086			86			
M102-25036106			106			
M102-25046026			26			
M102-25046036			36			
M102-25046046			46			
M102-25046056	**25**	46	56	34	38	8
M102-25046066			66			
M102-25046076			76			
M102-25046096			96			
M102-25046116			116			
M102-25056026			26			
M102-25056036			36			
M102-25056046	**25**	56	46	34	38	8
M102-25056056			56			
M102-25056066			66			
M102-25056076			76			

Sipariş Kodu	d1	l1	l2	d2	d3	a
M102-25056096	**25**	56	96	34	38	8
M102-25056116			116			
M102-25066026	**25**		26			
M102-25066036			36			
M102-25066046			46			
M102-25066056			56			
M102-25066066		66	66	34	38	8
M102-25066076			76			
M102-25066086			86			
M102-25066106			106			
M102-25066126			126			
M102-25076026			26			
M102-25076036			36			
M102-25076046			46			
M102-25076056			56			
M102-25076066	**25**	76	66	34	38	8
M102-25076076			76			
M102-25076086			86			
M102-25076106			106			
M102-25076126			126			
M102-25086036			36			
M102-25086046			46			
M102-25086056			56			
M102-25086066			66			
M102-25086076	**25**	86	76	34	38	8
M102-25086086			86			
M102-25086096			96			
M102-25086116			116			
M102-25086136			136			
M102-25096036			36			
M102-25096046			46			
M102-25096056			56			
M102-25096066			66			
M102-25096076	**25**	96	76	34	38	8
M102-25096086			86			
M102-25096096			96			
M102-25096116			116			
M102-25096136			136			
M102-25106046			46			
M102-25106056			56			
M102-25106066			66			
M102-25106076	**25**	106	76	34	38	8
M102-25106086			86			
M102-25106096			96			
M102-25106116			116			
M102-25106136			136			
M102-30036036			36			
M102-30036046			46			
M102-30036056	**30**	36	56	39	43	10
M102-30036066			66			
M102-30036086			86			
M102-30036106			106			
M102-30046036			36			
M102-30046046			46			
M102-30046056	**30**	46	56	39	43	10
M102-30046066			66			



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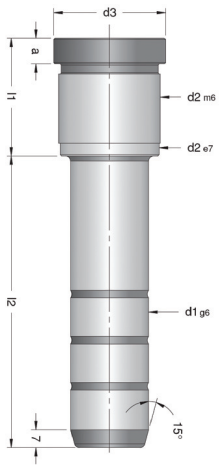
M102-30046076			76			
M102-30046096	**30**	46	96	39	43	10
M102-30046116			116			
M102-30056036			36			
M102-30056046			46			
M102-30056056			56			
M102-30056066	**30**	56	66	39	43	10
M102-30056076			76			
M102-30056086			86			
M102-30056106			106			
M102-30056126			126			
M102-30066036			36			
M102-30066046			46			
M102-30066056			56			
M102-30066066	**30**	66	66	39	43	10
M102-30066076			76			
M102-30066086			86			
M102-30066106			96			
M102-30066126			116			
M102-30066136			136			
M102-30076036			36			
M102-30076046			46			
M102-30076056			56			
M102-30076076	**30**	76	76	39	43	10
M102-30076096			96			
M102-30076116			116			
M102-30076136			136			
M102-30086036			36			
M102-30086046			46			
M102-30086066			66			
M102-30086086	**30**	86	86	39	43	10
M102-30086106			106			
M102-30086126			126			
M102-30086146			146			
M102-30096046			46			
M102-30096066			66			
M102-30096086			86			
M102-30096106	**30**	96	106	39	43	10
M102-30096126			126			
M102-30096146			146			
M102-30106056			56			
M102-30106076			76			
M102-30106096	**30**	106	96	39	43	10
M102-30106116			116			
M102-30106136			136			
M102-30116056			56			
M102-30116076			76			
M102-30116096	**30**	116	96	39	43	10
M102-30116116			116			
M102-30116136			136			
M102-40056056			56			
M102-40056086			86			
M102-40056106	**40**	56	106	54	58	10
M102-40056126			126			
M102-40056156			156			
M102-40056186			186			

Sipariş Kodu	d1	l1	l2	d2	d3	a
M102-40066066			66			
M102-40066096			96			
M102-40066116	**40**	66	116	54	58	10
M102-40066136			136			
M102-40066166			166			
M102-40066196			196			
M102-40076076			76			
M102-40076106			106			
M102-40076126	**40**	76	126	54	58	10
M102-40076146			146			
M102-40076166			166			
M102-40076196	**40**	76	196	54	58	10
M102-40076216			216			
M102-40086086			86			
M102-40086126			126			
M102-40086146	**40**	86	146	54	58	10
M102-40086176			176			
M102-40086206			206			
M102-40086226			226			
M102-40096096			96			
M102-40096136			136			
M102-40096156	**40**	96	156	54	58	10
M102-40096186			186			
M102-40096216			216			
M102-40096236			236			
M102-40106106			106			
M102-40106126			126			
M102-40106156	**40**	106	156	54	58	10
M102-40106186			186			
M102-40106226			226			
M102-40106246			246			
M102-40116116			116			
M102-40116136			136			
M102-40116166			166			
M102-40116196	**40**	116	196	54	58	10
M102-40116236			236			
M102-40116256			256			
M102-40126126			126			
M102-40126166			166			
M102-40126196	**40**	126	196	54	58	10
M102-40126236			236			
M102-40126266			266			
M102-40136136			136			
M102-40136196	**40**	136	196	54	58	10
M102-40136226			226			
M102-40136266			266			



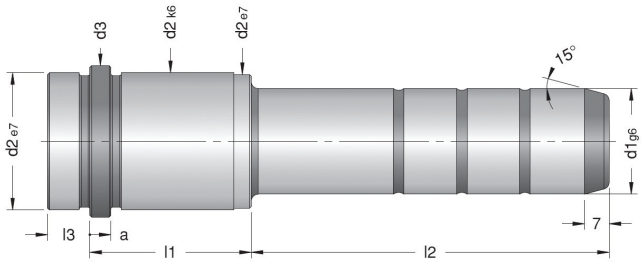
DEVPA Kalıp Elemanları

M103 Kuyruklu Kademeli Kolon / Avrupa Standart

Mat.: 1.1213 (Cf53) ≂ 62±2 HRC / Induction



Avrupa Standart



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M10314017055	14	M103-15017055	15	17	55	9	20	25	6
M10314017075		M103-15017075			75				
M10314017095		M103-15017095			95				
M103-14022030		M103-15022030			30				
M103-14022050		M103-15022050			50				
M103-14022070		M103-15022070			70				
M103-14022090	14	M103-15022090	15	22	90	9	20	25	6
M103-14022110		M103-15022110			110				
M103-14022125		M103-15022125			125				
M103-14022150		M103-15022150			150				
M103-14027030		M103-15027030			30				
M103-14027045		M103-15027045			45				
M103-14027065		M103-15027065			65				
M103-14027085	14	M103-15027085	15	27	85	9	20	25	6
M103-14027105		M103-15027105			105				
M103-14027125		M103-15027125			125				
M103-14027145		M103-15027145			145				
M103-14027165		M103-15027165			165				
M103-14036035		M103-15036035			35				
M103-14027055		M103-15036055			55				
M103-14027075		M103-15036075			75				
M103-14027095	14	M103-15036095	15	36	95	9	20	25	6
M103-14027115		M103-15036115			115				
M103-14027125		M103-15036125			125				
M103-14027145		M103-15036145			145				
M103-14027155		M103-15036155			155				
M103-14046035		M103-15046035			35				
M103-14046045	14	M103-15046045	15	46	45	9	20	25	6
M103-14046065		M103-15046065			65				
M103-14046085		M103-15046085			85				

Sipariş Kodu	d1	Sipariş Kodu	d1	l1	l2	l3	d2	d3	a
M103-14046105		M103-15046105			105				
M103-14046125	14	M103-15046125	15	46	125	9	20	25	6
M103-14046145		M103-15046145			145				
M103-14056035		M103-15056035			35				
M103-14056055		M103-15056055			55				
M103-14056075	14	M103-15056075	15	56	75	9	20	25	6
M103-14056095		M103-15056095			95				
M103-14056135		M103-15056135			135				
M103-14066055		M103-15066055			55				
M103-14066065		M103-15066065			65				
M103-14066085		M103-15066085			85				
M103-14066095	14	M103-15066095	15	66	95	9	20	25	6
M103-14066105		M103-15066105			105				
M103-14066125		M103-15066125			125				
M103-14076035		M103-15076035			35				
M103-14076055		M103-15076055			55				
M103-14076075	14	M103-15076075	15	76	75	9	20	25	6
M103-14076095		M103-15076095			95				
M103-14076125		M103-15076125			125				
M103-14086055		M103-15086055			55				
M103-14086075	14	M103-15086075	15	86	75	9	20	25	6
M103-14086095		M103-15086095			95				
M103-14096055		M103-15096055			55				
M103-14096075	14	M103-15096075	15	96	75	9	20	25	6
M103-14096095		M103-15096095			95				
M103-14116075	14	M103-15116075	15	116	75	9	20	25	6
M103-18017035		M103-20017035			35				
M103-18017055	18	M103-20017055	20	17	55	9	26	31	6
M103-18017075		M103-20017075			75				
M103-18017120		M103-20017120			120				
M103-18022035		M103-20022035			35				
M103-18022045		M103-20022045			45				
M103-18022065		M103-20022065			65				
M103-18022085	18	M103-20022085	20	22	85	9	26	31	6
M103-18022095		M103-20022095			95				
M103-18022115		M103-20022115			115				
M103-18027035		M103-20027035			35				
M103-18027045		M103-20027045			45				
M103-18027065		M103-20027065			65				
M103-18027085		M103-20027085			85				
M103-18027105	18	M103-20027105	20	27	105	9	26	31	6
M103-18027125		M103-20027125			125				
M103-18027165		M103-20027165			165				
M103-18027225		M103-20027225			225				
M103-18027245		M103-20027245			245				
M103-18036035		M103-20036035			35				
M103-18036055		M103-20036055			55				
M103-18036075		M103-20036075			75				
M103-18036095		M103-20036095			95				
M103-18036115	18	M103-20036115	20	36	115	9	26	31	6
M103-18036135		M103-20036135			135				
M103-18036165		M103-20036165			165				
M103-18036225		M103-20036225			225				
M103-18036255		M103-20036255			255				
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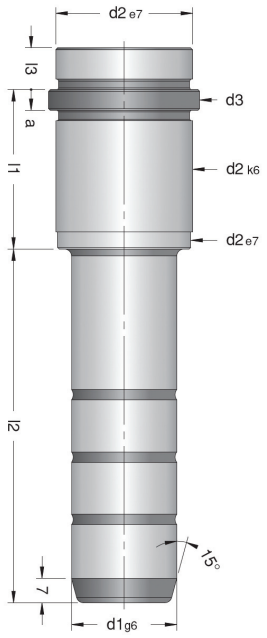
M103-18036045		M103-20036045			45				



Sipariş Kodu	d1	Sipariş Kodu	d1	l1	l2	l3	d2	d3	a
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M103-18046085		M103-20046085			85				
M103-18046105		M103-20046105			105				
M103-18046135	18	M103-20046135	20		135	9	26	31	6
M103-18046165		M103-20046165			165				
M103-18046245		M103-20046245			245				
M103-18056035		M103-20056035			35				
M103-18056055		M103-20056055			55				
M103-18056075		M103-20056075			75				
M103-18056095	18	M103-20056095	20	56	95	9	26	31	6
M103-18056115		M103-20056115			115				
M103-18056135		M103-20056135			135				
M103-18056155		M103-20056155			155				
M103-18066035		M103-20066035			35				
M103-18066055		M103-20066055			55				
M103-18066075		M103-20066075			75				
M103-18066095	18	M103-20066095	20	66	95	9	26	31	6
M103-18066115		M103-20066115			115				
M103-18066135		M103-20066135			135				
M103-18066145		M103-20066145			145				
M103-18076035		M103-20076035			35				
M103-18076055		M103-20076055			55				
M103-18076075	18	M103-20076075	20	76	75	9	26	31	6
M103-18076095		M103-20076095			95				
M103-18076115		M103-20076115			115				
M103-18076135		M103-20076135			135				
M103-18086055		M103-20086055			55				
M103-18086075		M103-20086075			75				
M103-18086095	18	M103-20086095	20	86	95	9	26	31	6
M103-18086115		M103-20086125			125				
M103-18086135		M103-20086135			135				
M103-18096055		M103-20096055			55				
M103-18096075	18	M103-20096075	20	96	75	9	26	31	6
M103-18096095		M103-20096095			95				
M103-18116075	18	M103-20116075	20	116	75	9	26	31	6
M103-18116115		M103-20116115			115				
M103-18136135	18	M103-20136135	20	136	135	9	26	31	6
M103-22017035		M103-24017035			35				
M103-22017055	22	M103-24017055	24	17	55	9	30	35	6
M103-22017075		M103-24017075			75				
M103-22022035		M103-24022035			35				
M103-22022055		M103-24022055			55				
M103-22022075	22	M103-24022075	24	22	75	9	30	35	6
M103-22022095		M103-24022095			95				
M103-22022105		M103-24022105			105				
M103-22022130		M103-24022130			130				
M103-22027035		M103-24027035			35				
M103-22027045		M103-24027045			45				
M103-22027065		M103-24027065			65				
M103-22027085	22	M103-24027085	24	27	85	9	30	35	6
M103-22027105		M103-24027105			105				
M103-22027125		M103-24027125			125				
M103-22027165		M103-24027165			165				
M103-22027205		M103-24027205			205				
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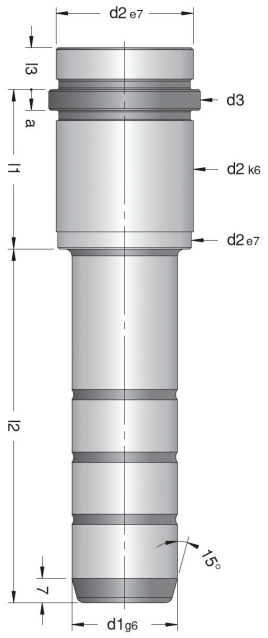

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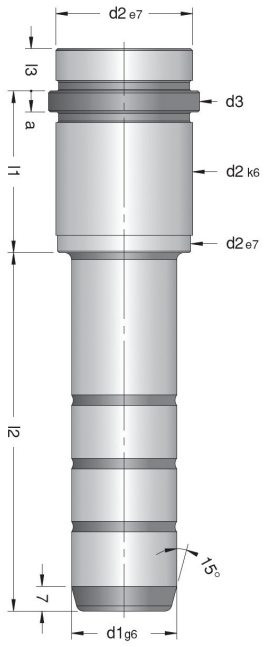
M10322036075		M10324036075			75				
M10322036095		M10324036095			95				
M10322036115	22	M10324036115	24	36	115	9	30	35	6
M10322036135		M10324036135			135				
M10322036165		M10324036165			165				
M10322036205		M10324036205			205				
M10322036245		M10324036245			245				
M10322036285		M10324036285			285				
M103-22046035		M103-24046035			35				
M103-22046045		M103-24046045			45				
M103-22046065		M103-24046065			65				
M103-22046085	22	M103-24046085	24	46	85	9	30	35	6
M103-22046105		M103-24046105			105				
M103-22046125		M103-24046125			125				
M103-22046165		M103-24046165			165				
M103-22046205		M103-24046205			205				
M103-22056035		M103-24056035			35				
M103-22056055		M103-24056055			55				
M103-22056075		M103-24056075			75				
M103-22056095	22	M103-24056095	24	56	95	9	30	35	6
M103-22056115		M103-24056115			115				
M103-22056135		M103-24056135			135				
M103-22056165		M103-24056165			165				
M103-22056205		M103-24056205			205				
M103-22066035		M103-24066035			35				
M103-22066055		M103-24066055			55				
M103-22066075		M103-24066075			75				
M103-22066095	22	M103-24066095	24	66	95	9	30	35	6
M103-22066115		M103-24066115			115				
M103-22066135		M103-24066135			135				
M103-22066155		M103-24066155			155				
M103-22076035		M103-24076035			35				
M103-22076055		M103-24076055			55				
M103-22076075	22	M103-24076075	24	76	75	9	30	35	6
M103-22076095		M103-24076095			95				
M103-22076115		M103-24076115			115				
M103-22076145		M103-24076145			145				
M103-22086055		M103-24086055			55				
M103-22086075		M103-24086075			75				
M103-22086095	22	M103-24086095	24	86	95	9	30	35	6
M103-22086125		M103-24086125			125				
M103-22086135		M103-24086135			135				
M103-22096055		M103-24096055			55				
M103-22096075	22	M103-24096075	24	96	75	9	30	35	6
M103-22096095		M103-24096095			95				
M103-22096125		M103-24096125			125				
M103-22106055		M103-24106055			55				
M103-22106075	22	M103-24106075	24	106	75	9	30	35	6
M103-22106095		M103-24106095			95				
M103-22106115		M103-24106115			115				
M103-22116075		M103-24116075			75				
M103-22116115	22	M103-24116115	24	116	115	9	30	35	6
M103-22116155		M103-24116155			155				



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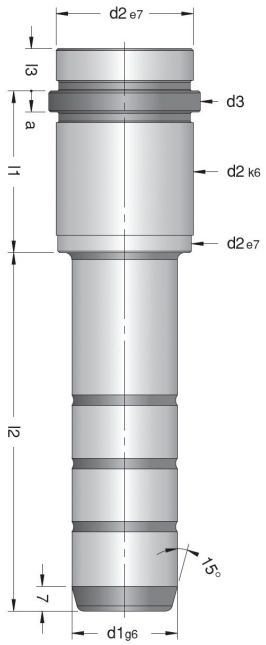
M103-22136135		M103-24136135			135				
M103-30027035		M103-32027035			35				
M103-30027045		M103-32027045			45				
M103-30027065		M103-32027065			65				
M103-30027085		M103-32027085			85				
M103-30027105		M103-32027105			105				
M103-30027125	30	M103-32027125	32	27	125	9	42	47	6
M103-30027145		M103-32027145			145				
M103-30027165		M103-32027165			165				
M103-30027185		M103-32027185			185				
M103-30027245		M103-32027245			245				
M103-30027285		M103-32027285			285				
M103-30036035		M103-32036035			35				
M103-30036055		M103-32036055			55				
M103-30036075		M103-32036075			75				
M103-30036095		M103-32036095			95				
M103-30036115	30	M103-32036115	32	36	115	9	42	47	6
M103-30036135		M103-32036135			135				
M103-30036155		M103-32036155			155				
M103-30036245		M103-32036245			245				
M103-30036285		M103-32036285			285				
M103-30046045		M103-32046045			45				
M103-30046065		M103-32046065			65				
M103-30046085		M103-32046085			85				
M103-30046105		M103-32046105			105				
M103-30046125	30	M103-32046125	32	46	125	9	42	47	6
M103-30046145		M103-32046145			145				
M103-30046165		M103-32046165			165				
M103-30046245		M103-32046245			245				
M103-30046285		M103-32046285			285				
M103-30056045		M103-32056045			45				
M103-30056055		M103-32056055			55				
M103-30056075		M103-32056075			75				
M103-30056095		M103-32056095			95				
M103-30056115	30	M103-32056115	32	56	115	9	42	47	6
M103-30056135		M103-32056135			135				
M103-30056155		M103-32056155			155				
M103-30056175		M103-32056175			175				
M103-30056245		M103-32056245			245				
M103-30056295		M103-32056295			295				
M103-30066045		M103-32066045			45				
M103-30066055		M103-32066055			55				
M103-30066075		M103-32066075			75				
M103-30066095		M103-32066095			95				
M103-30066115	30	M103-32066115	32	66	115	9	42	47	6
M103-30066135		M103-32066135			135				
M103-30066155		M103-32066155			155				
M103-30066175		M103-32066175			175				
M103-30066245		M103-32066245			245				
M103-30066295		M103-32066295			295				
M103-30076055		M103-32076055			55				
M103-30076075		M103-32076075			75				
M103-30076095	30	M103-32076095	32	76	95	9	42	47	6
M103-30076115		M103-32076115			115				
M103-30076135		M103-32076135			135				



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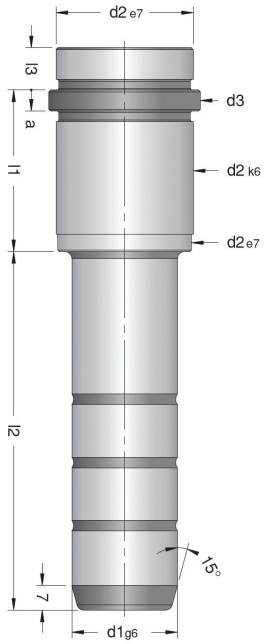
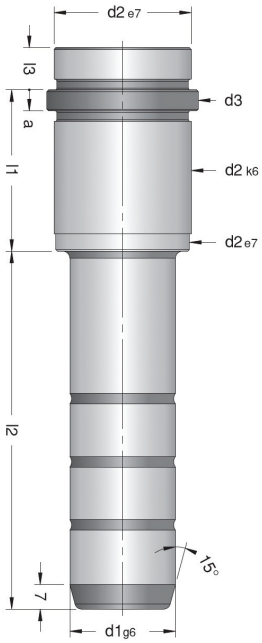
M103-30076155	30	M103-3207155	32	76	155	9	42	47	6
M103-30076225		M103-3207225			225				
M103-30086055		M103-32086055			55				
M103-30086075		M103-32086075			75				
M103-30086095		M103-32086095			95				
M103-30086115	30	M103-32086115	32	86	115	9	42	47	6
M103-30086135		M103-32086135			135				
M103-30086155		M103-32086155			155				
M103-30086225		M103-32086225			225				
M103-30096055		M103-32096055			55				
M103-30096075		M103-32096075			75				
M103-30096095		M103-32096095			95				
M103-30096115	30	M103-32096115	32	96	115	9	42	47	6
M103-30096135		M103-32096135			135				
M103-30096155		M103-32096155			155				
M103-30096205		M103-32096205			205				
M103-30106075		M103-32106075			75				
M103-30106095		M103-32106095			95				
M103-30106115		M103-32106115			115				
M103-30106125	30	M103-32106125	32	106	125	9	42	47	6
M103-30106145		M103-32106145			145				
M103-30106165		M103-32106165			165				
M103-30116075		M103-32116075			75				
M103-30116095		M103-32116095			95				
M103-30116115	30	M103-32116115	32	116	115	9	42	47	6
M103-30116135		M103-32116135			135				
M103-30116155		M103-32116155			155				
M103-30136095		M103-32136095			95				
M103-30136115		M103-32136115			115				
M103-30136135	30	M103-32136135	32	136	135	9	42	47	6
M103-30136155		M103-32136155			155				
M103-30156115	30	M103-32156115	32	156	115	9	42	47	6
M103-30156155		M103-32156155			155				
M103-30196155	30	M103-32196155	32	196	155	9	42	47	6
M103-30196195		M103-32196195			195				
M103-40046095	40	M103-42046095	42	46	95	12	54	60	10
M103-40046165		M103-42046165			165				
M103-40056075		M103-42056075			75				
M103-40056115	40	M103-42056115	42	56	115	12	54	60	10
M103-40056155		M103-42056155			155				
M103-40056195		M103-42056195			195				
M103-40066075	40	M103-42066075	42	66	75	12	54	60	10
M103-40066135		M103-42066135			135				
M103-40076075	40	M103-42076075	42	76	75	12	54	60	10
M103-40076115		M103-42076115			115				
M103-40076175		M103-42076175			175				
M103-40086075	40	M103-42086075	42	86	75	12	54	60	10
M103-40086135		M103-42086135			135				
M103-40096075	40	M103-42096075	42	96	75	12	54	60	10
M103-40096115		M103-42096115			115				
M103-40096155		M103-42096155			155				
M103-40116095	40	M103-42116095	42	116	95	12	54	60	10
M103-40116135		M103-42116135			135				
M103-40116195		M103-42116195			195				
M103-40136095	40	M103-42136095	42	136	95	12	54	60	10
M103-40136135		M103-42136135			135				



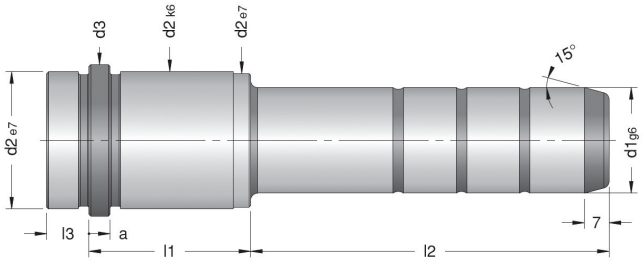
Sipariş Kodu	d1	Sipariş Kodu	d1	l1	l2	l3	d2	d3	a
M103-40136215		M103-42136215		136	215	12	54	60	10
M103-40156115		M103-42156115		156	115				
M103-40156155	**40**	M103-42156155	**42**		155	12	54	60	10
M103-40156215		M103-42156215			215				
M103-40196155		M103-42196155			155				
M103-40196195	**40**	M103-42196195	**42**	196	195	12	54	60	10
M103-40196235		M103-42196235			235				
M103-40246165	**40**	M103-42246165	**42**	246	165	12	54	60	10
M103-40246245		M103-42246245			245				



M103Y **Kuyruklu Kademeli Kolon** / Yerli Standart

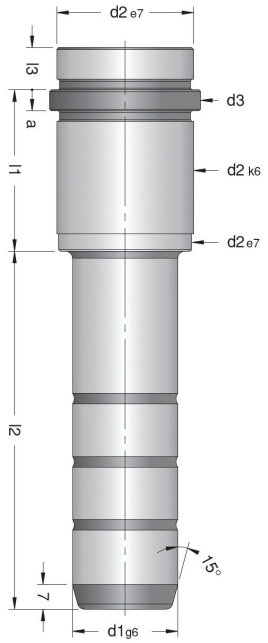
Mat.: 1.7131 (16 MnCr5) ≃ 62±2 HRC





Sipariş Kodu	d1	l1	l2	l3	d2	d3	a
M103Y/16X26X26	16	26	26	10	24	28	6
M103Y/16X26X36			36				
M103Y/16X26X46			46				
M103Y/16X26X56			56				
M103Y/16X26X66			66				
M103Y/16X26X76			76				
M103Y/16X26X96			96				
M103Y/16X36X26	16	36	26	10	24	28	6
M103Y/16X36X36			36				
M103Y/16X36X46			46				
M103Y/16X36X56			56				
M103Y/16X36X66			66				
M103Y/16X36X86			86				
M103Y/16X46X26	16	46	26	10	24	28	6
M103Y/16X46X36			36				
M103Y/16X46X46			46				
M103Y/16X46X56			56				
M103Y/16X46X76			76				
M103Y/16X46X96			96				
M103Y/16X46X116			116				
M103Y/16X56X36	16	56	36	10	24	28	6
M103Y/16X56X46			46				
M103Y/16X56X66			66				
M103Y/16X56X86			86				
M103Y/16X56X106			106				
M103Y/16X56X126			126				
M103Y/16X56X146			146				
M103Y/16X66X36	16	66	36	10	24	28	6
M103Y/16X66X56			56				
M103Y/16X66X76			76				
M103Y/16X66X96			96				

Sipariş Kodu	d1	l1	l2	l3	d2	d3	a
M103Y/16X66X116	**16**	66	116	10	24	28	6
M103Y/16X66X136			136				
M103Y/16X76X46			46				
M103Y/16X76X66			66				
M103Y/16X76X86	**16**	76	86	10	24	28	6
M103Y/16X76X106			106				
M103Y/16X76X126			126				
M103Y/16X86X46			46				
M103Y/16X86X66			66				
M103Y/16X86X86	**16**	86	86	10	24	28	6
M103Y/16X86X106			106				
M103Y/16X86X126			126				
M103Y/20X26X26			26				
M103Y/20X26X36			36				
M103Y/20X26X46			46				
M103Y/20X26X56	**20**	26	56	10	28	32	6
M103Y/20X26X66			66				
M103Y/20X26X76			76				
M103Y/20X26X96			96				
M103Y/20X36X26			26				
M103Y/20X36X36			36				
M103Y/20X36X46			46				
M103Y/20X36X56	**20**	36	56	10	28	32	6
M103Y/20X36X66			66				
M103Y/20X36X86			86				
M103Y/20X36X106			106				
M103Y/20X36X126			126				
M103Y/20X46X26			26				
M103Y/20X46X36			36				
M103Y/20X46X46			46				
M103Y/20X46X56	**20**	46	56	10	28	32	6
M103Y/20X46X76			76				
M103Y/20X46X96			96				
M103Y/20X46X116			116				
M103Y/20X56X26			26				
M103Y/20X56X36			36				
M103Y/20X56X46			46				
M103Y/20X56X66	**20**	56	66	10	28	32	6
M103Y/20X56X86			86				
M103Y/20X56X106			106				
M103Y/20X56X126			126				
M103Y/20X66X36			36				
M103Y/20X66X56			56				
M103Y/20X66X76	**20**	66	76	10	28	32	6
M103Y/20X66X96			96				
M103Y/20X66X116			116				
M103Y/20X66X136			136				
M103Y/20X76X46			46				
M103Y/20X76X66			66				
M103Y/20X76X86	**20**	76	86	10	28	32	6
M103Y/20X76X106			106				
M103Y/20X76X126			126				
M103Y/20X86X56			56				
M103Y/20X86X76	**20**	86	76	10	28	32	6
M103Y/20X86X96			96				
M103Y/20X86X116			116				



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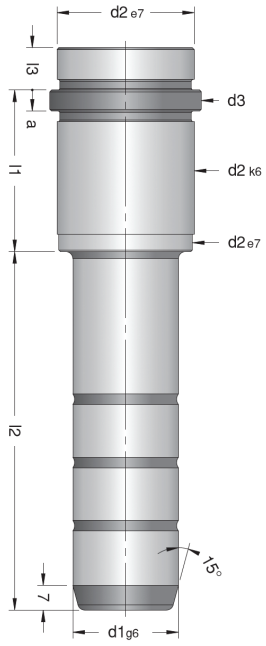
M103Y/20X96X46	**20**	96	46	10	28	32	6
M103Y/20X96X66			66				
M103Y/20X96X86			86				
M103Y/20X96X106			106				
M103Y/20X96X126			126				
M103Y/25X26X56	**25**	26	56	10	34	38	8
M103Y/25X26X66			66				
M103Y/25X26X76			76				
M103Y/25X36X36	**25**	36	36	10	34	38	8
M103Y/25X36X46			46				
M103Y/25X36X56			56				
M103Y/25X36X66			66				
M103Y/25X36X86			86				
M103Y/25X36X106			106				
M103Y/25X36X126			126				
M103Y/25X36X146			146				
M103Y/25X46X36	**25**	46	36	10	34	38	8
M103Y/25X46X46			46				
M103Y/25X46X56			56				
M103Y/25X46X76			76				
M103Y/25X46X96			96				
M103Y/25X46X116			116				
M103Y/25X46X136			136				
M103Y/25X56X36	**25**	56	36	10	34	38	8
M103Y/25X56X46			46				
M103Y/25X56X66			66				
M103Y/25X56X86			86				
M103Y/25X56X106			106				
M103Y/25X56X126			126				
M103Y/25X56X146			146				
M103Y/25X66X36	**25**	66	36	10	34	38	8
M103Y/25X66X56			56				
M103Y/25X66X76			76				
M103Y/25X66X96			96				
M103Y/25X66X116			116				
M103Y/25X66X136			136				
M103Y/25X76X46	**25**	76	46	10	34	38	8
M103Y/25X76X66			66				
M103Y/25X76X86			86				
M103Y/25X76X06			106				
M103Y/25X76X26			126				
M103Y/25X86X56	**25**	86	56	10	34	38	8
M103Y/25X86X76			76				
M103Y/25X86X96			96				
M103Y/25X86X116			116				
M103Y/25X86X136			136				
M103Y/25X96X56			56				
M103Y/25X96X76			76				
M103Y/25X96X96	**25**	96	96	10	34	38	8
M103Y/25X96X116			116				
M103Y/25X96X136			136				
M103Y/25X106X66			66				
M103Y/25X106X86	**25**	106	86	10	34	38	8
M103Y/25X106X106			106				
M103Y/25X106X206			126				



Sipariş Kodu	d1	l1	l2	l3	d2	d3	a
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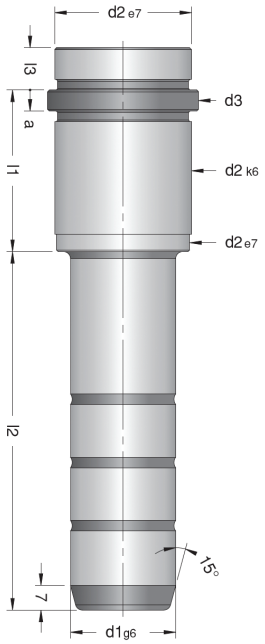
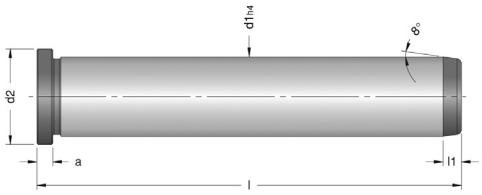
M103Y/30X36X46			46				
M103Y/30X36X56			56				
M103Y/30X36X66			66				
M103Y/30X36X86			86				
M103Y/30X36X106			106				
M103Y/30X46X36	30	46	36	10	39	43	10
M103Y/30X46X46			46				
M103Y/30X46X56			56				
M103Y/30X46X76			76				
M103Y/30X46X96			96				
M103Y/30X46X116			116				
M103Y/30X56X36	30	56	36	10	39	43	10
M103Y/30X56X46			46				
M103Y/30X56X66			66				
M103Y/30X56X86			86				
M103Y/30X56X106			106				
M103Y/30X56X126			126				
M103Y/30X66X36	30	66	36	10	39	43	10
M103Y/30X66X56			56				
M103Y/30X66X76			76				
M103Y/30X66X96			96				
M103Y/30X66X116			116				
M103Y/30X66X136			136				
M103Y/30X76X46	30	76	46	10	39	43	10
M103Y/30X76X66			66				
M103Y/30X76X86			86				
M103Y/30X76X106			106				
M103Y/30X76X126			126				
M103Y/30X86X56	30	86	56	10	39	43	10
M103Y/30X86X76			76				
M103Y/30X86X96			96				
M103Y/30X86X116			116				
M103Y/30X86X136			136				
M103Y/30X96X46	30	96	46	10	39	43	10
M103Y/30X96X66			66				
M103Y/30X96X86			86				
M103Y/30X96X106			106				
M103Y/30X96X126			126				
M103Y/30X106X56	30	106	56	10	39	43	10
M103Y/30X106X66			66				
M103Y/30X106X86			86				
M103Y/30X106X106			106				
M103Y/30X106X126			126				
M103Y/30X116X66	30	116	66	10	39	43	10
M103Y/30X116X86			86				
M103Y/30X116X106			106				
M103Y/30X116X126			126				

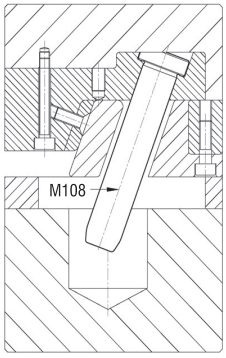


M108 **Şapkalı Bilyalı Sistem Kolon** / Guide Pillar

Mat.: 1.1213 (Cf 53) ≃ 62±2 HRC





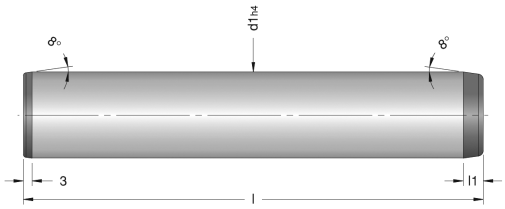


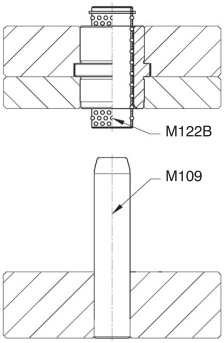
Sipariş Kodu	d1	l	l1	d2	a
M108-12080	12	80	4	16	4
M108-12100		100			
M108-12120		120			
M108-18120	18	120	7	22	6
M108-18140		140			
M108-18160		160			
M108-30160	30	160	7	36	6
M108-30200		200			
M108-30240		240			

M109 **Düz Bilyalı Sistem Kolon** / Guide Pillar

Mat.: 1.1213 (Cf 53) ≃ 62±2 HRC







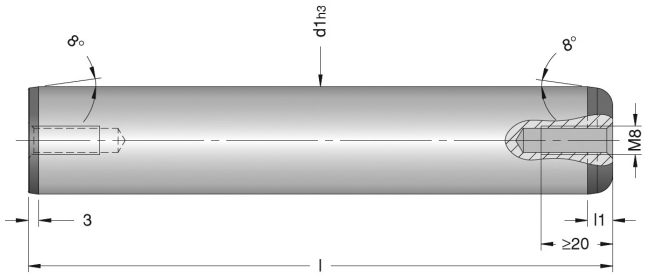
Sipariş Kodu	d1	l	l1
M109-12100	12	100	6
M109-12125		125	
M109-18125	18	125	6
M109-18160		160	
M109-30160	30	160	7
M109-30240		240	

M114 Düz Kolon Vida Dişli / Yerli Standart

Mat.: 1.1213 (Cf 53) ≃ 62±2 HRC



Yerli Standart



Sipariş Kodu	d1	l	l1
M114/15x90	15	90	4
M114/15x100		100	
M114/15x112		112	
M114/15x125		125	
M114/15x140		140	
M114/15x160		160	
M114/15x180		180	
M114/15x200		200	
M114/15x224		224	
M114/16x90	16	90	4
M114/16x100		100	
M114/16x112		112	
M114/16x125		125	
M114/16x140		140	
M114/16x160		160	
M114/16x180		180	
M114/16x200		200	
M114/16x224		224	
M114/19x100	19	100	4
M114/19x112		112	
M114/19x125		125	
M114/19x140		140	
M114/19x160		160	
M114/19x180		180	
M114/19x200		200	
M114/19x224		224	
M114/19x250		250	
M114/20x100	20	100	4
M114/20x112		112	
M114/20x125		125	
M114/20x140		140	
M114/20x160		160	
M114/20x180		180	
M114/20x200		200	
M114/20x224		224	
M114/20x250		250	

Sipariş Kodu	d1	l	l1
M114/24x100	24	100	6
M114/24x112		112	
M114/24x125		125	
M114/24x140		140	
M114/24x160		160	
M114/24x180		180	
M114/24x200		200	
M114/24x224		224	
M114/24x250		250	
M114/24x280		280	
M114/25x100	25	100	6
M114/25x112		112	
M114/25x125		125	
M114/25x140		140	
M114/25x160		160	
M114/25x180		180	
M114/25x200		200	
M114/25x224		224	
M114/25x250		250	
M114/25x280		280	
M114/30x125	30	125	6
M114/30x140		140	
M114/30x160		160	
M114/30x180		180	
M114/30x200		200	
M114/30x224		224	
M114/30x250		250	
M114/30x280		280	
M114/30x315		315	
M114/32x125	32	125	6
M114/32x140		140	
M114/32x160		160	
M114/32x180		180	
M114/32x200		200	
M114/32x224		224	
M114/32x250		250	

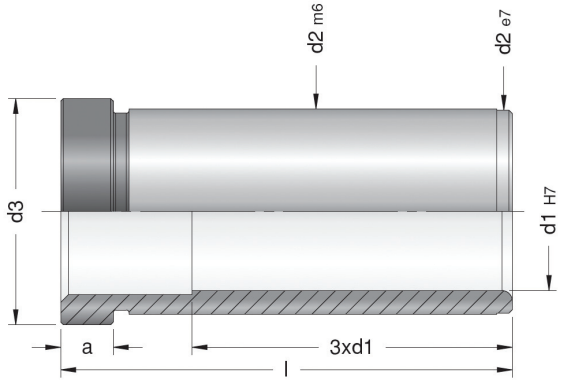
Sipariş Kodu	d1	l	l1
M114/32x280	32	280	6
M114/32x315		315	
M114/38x160	38	160	6
M114/38x180		180	
M114/38x200		200	
M114/38x224		224	
M114/38x250		250	
M114/38x280		280	
M114/38x315		315	
M114/38x355		355	
M114/38x400		400	
M114/40x160	40	160	6
M114/40x180		180	
M114/40x200		200	
M114/40x224		224	
M114/40x250		250	
M114/40x280		280	
M114/40x315		315	
M114/40x355		355	
M114/40x400		400	
M114/48x180	48	180	8
M114/48x200		200	
M114/48x224		224	
M114/48x250		250	
M114/48x280		280	
M114/48x315		315	
M114/48x355		355	
M114/48x400		400	
M114/48x450		450	
M114/50x180	50	180	8
M114/50x200		200	
M114/50x224		224	
M114/50x250		250	
M114/50x280		280	
M114/50x315		315	
M114/50x355		355	

Sipariş Kodu	d1	l	l1
M114/50x400	48	400	8
M114/50x450		450	
M114/60x250	60	250	8
M114/60x280		280	
M114/60x315		315	
M114/60x355		355	
M114/60x400		400	
M114/60x450		450	
M114/60x500		500	
M114/63x250	63	250	8
M114/63x280		280	
M114/63x315		315	
M114/63x355		355	
M114/63x400		400	
M114/63x450		450	
M114/63x500		500	
M114/80x280	80	280	8
M114/80x315		315	
M114/80x355		355	
M114/80x400		400	
M114/80x450		450	
M114/80x500		500	

M120 Şapkalı Burç / Guide Bush

Mat.: 1.7131 (16 MnCr5) ≂ 62±2 HRC





Sipariş Kodu	d1	l	d2	d3	a
M120-10017	10	17	14	16	3
M120-10027		27			
M120-10036		36			
M120-10046		46			
M120-12026	12	26	16	19	4
M120-12036		36			
M120-12046		46			
M120-12056		56			
M120-12066		66			
M120-14026	14	26	20	25	6
M120-14036		36			
M120-14046		46			
M120-14056		56			
M120-14066		66			
M120-14076		76			
M120-16026	16	26	24	28	6
M120-16036		36			
M120-16046		46			
M120-16056		56			
M120-16066		66			
M120-16076		76			
M120-16086		86			
M120-18026	18	26	26	31	6
M120-18036		36			
M120-18046		46			
M120-18056		56			
M120-18066		66			
M120-18076		76			
M120-18086		86			
M120-20026	20	26	28	32	6
M120-20036		36			
M120-20046		46			
M120-20056		56			
M120-20066		66			
M120-20076		76			

Sipariş Kodu	d1	l	d2	d3	a
M120-20086	20	86	28	32	6
M120-20096		96			
M120-25026	25	26	34	38	8
M120-25036		36			
M120-25046		46			
M120-25056		56			
M120-25066		66			
M120-25076		76			
M120-25086		86			
M120-25096		96			
M120-25106		106			
M120-30036	30	36	39	43	10
M120-30046		46			
M120-30056		56			
M120-30066		66			
M120-30076		76			
M120-30086		86			
M120-30096		96			
M120-30106		106			
M120-30116		116			
M120-40046	40	46	54	58	10
M120-40056		56			
M120-40066		66			
M120-40076		76			
M120-40086		86			
M120-40096		96			
M120-40106		106			
M120-40116		116			
M120-40126		126			
M120-40136		136			
M120-40146		146			

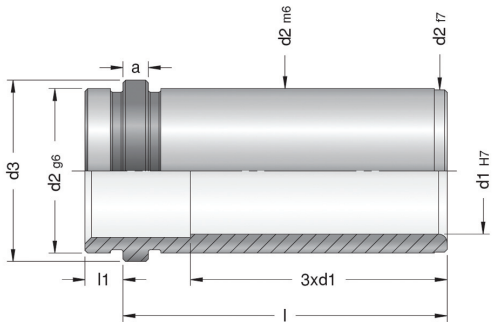
M121

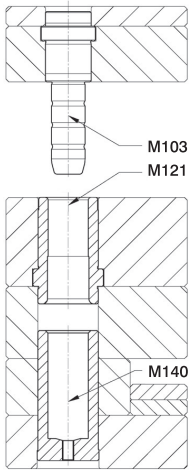
Kuyruklu Burç / Avrupa Standart

Mat.: 1.7131 (16 MnCr5) ≈ 62±2 HRC



Avrupa Standart





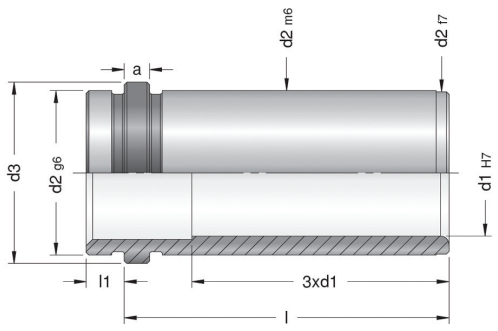
Sipariş Kodu	d1	Sipariş Kodu	d1	l	d2	d3	a	l1
M121-14017		M121-15017		17				
M121-14022		M121-15022		22				
M121-14027		M121-15027		27				
M121-14036		M121-15036		36				
M121-14046		M121-15046		46				
M121-14056	**14**	M121-15056	**15**	56	20	25	6	9
M121-14066		M121-15066		66				
M121-14076		M121-15076		76				
M121-14086		M121-15086		86				
M121-14096		M121-15096		96				
M121-14116		M121-15116		116				
M121-18017		M121-20017		17				
M121-18022		M121-20022		22				
M121-18027		M121-20027		27				
M121-18036		M121-20036		36				
M121-18046		M121-20046		46				
M121-18056	**18**	M121-20056	**20**	56	26	31	6	9
M121-18066		M121-20066		66				
M121-18076		M121-20076		76				
M121-18086		M121-20086		86				
M121-18096		M121-20096		96				
M121-18106		M121-20106		106				
M121-18116		M121-20116		116				
M121-18136		M121-20136		136				
M121-22017		M121-24017		17				
M121-22022		M121-24022		22				
M121-22027		M121-24027		27				
M121-22036	**22**	M121-24036	**24**	36	30	35	6	9
M121-22046		M121-24046		46				
M121-22056		M121-24056		56				
M121-22066		M121-24066		66				

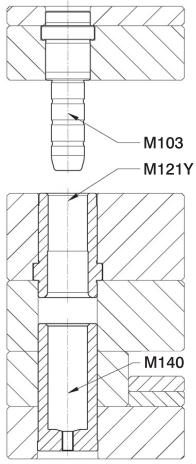
Sipariş Kodu	d1	Sipariş Kodu	d1	L	d2	d3	a	L1
M121-22076		M121-24076		76				
M121-22086		M121-24086		86				
M121-22096		M121-24096		96				
M121-22106	**22**	M121-24106	**24**	106	30	35	6	9
M121-22116		M121-24116		116				
M121-22136		M121-24136		136				
M121-22156		M121-24156		156				
M121-30027		M121-32027		27				
M121-30036		M121-32036		36				
M121-30046		M121-32046		46				
M121-30056		M121-32056		56				
M121-30066		M121-32066		66				
M121-30076		M121-32076		76				
M121-30086	**30**	M121-32086	**32**	86	42	47	6	9
M121-30096		M121-32096		96				
M121-30106		M121-32106		106				
M121-30116		M121-32116		116				
M121-30126		M121-32126		126				
M121-30136		M121-32136		136				
M121-30156		M121-32156		156				
M121-30196		M121-32196		196				
M121-40046		M121-42046		46				
M121-40056		M121-42056		56				
M121-40066		M121-42066		66				
M121-40076		M121-42076		76				
M121-40086	**40**	M121-42086	**42**	86	54	60	10	12
M121-40096		M121-42096		96				
M121-40116		M121-42116		116				
M121-40136		M121-42136		136				
M121-40156		M121-42156		156				
M121-40196		M121-42196		196				
M121-40246		M121-42246		246				

M121Y Kuyruklu Burç / Yerli Standart

Mat.: 1.7131 (16 MnCr5) ≂62±2 HRC





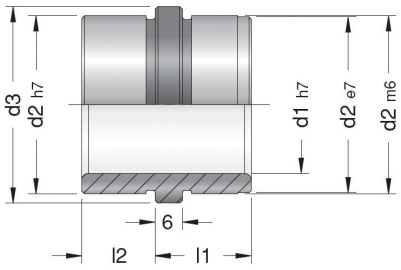


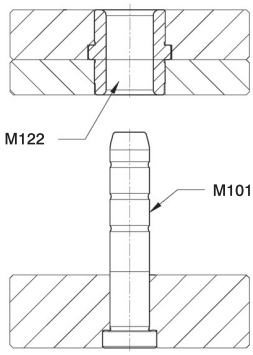
Sipariş Kodu	d1	L	d2	d3	a	L1
M121Y/16X26	16	26	24	28	6	10
M121Y/16X36		36				
M121Y/16X46		46				
M121Y/16X56		56				
M121Y/16X66		66				
M121Y/16X76		76				
M121Y/16X86		86				
M121Y/20X26	20	26	28	32	6	10
M121Y/16X36		36				
M121Y/16X46		46				
M121Y/16X56		56				
M121Y/16X66		66				
M121Y/16X76		76				
M121Y/16X86		86				
M121Y/16X96		96				
M121Y/25X26	25	26	34	38	8	10
M121Y/16X36		36				
M121Y/16X46		46				
M121Y/16X56		56				
M121Y/16X66		66				
M121Y/16X76		76				
M121Y/16X86		86				
M121Y/16X96		96				
M121Y/16X106		106				
M121Y/30X36	30	36	39	43	10	10
M121Y/30X46		46				
M121Y/30X56		56				
M121Y/30X66		66				
M121Y/30X76		76				
M121Y/30X86		86				
M121Y/30X96		96				
M121Y/30X106		106				
M121Y/30X116		116				

M122 **Flanşlı Burç** / Middle Flagned Bush

Mat.: 1.7131 (16 MnCr5) ≃ 62±2 HRC





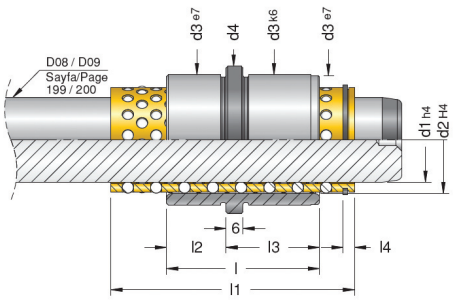


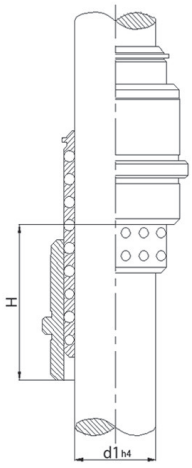
Sipariş Kodu	d1	L1	d2	d3	L2
M122-1216	**12**	16	16	19	12
M122-1416	**14**	16	20	25	12
M122-1616	**16**	16	24	28	12
M122-1816	**18**	16	26	31	12
M122-2016	**20**	16	28	32	12
M122-2421	**24**	21	34	38	16
M122-2521	**25**	21	34	38	16
M122-3021	**30**	21	39	43	16

M122B **Bilyalı Burç Set**/ Guide Bush With Ball Cage Sarı Kafes

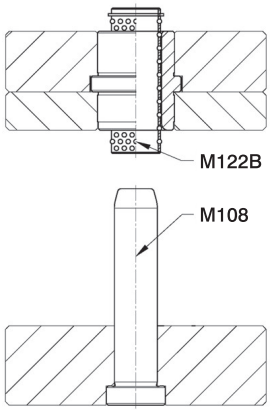
Mat.: 1.3505 (100Cr6) ≈ 62±2 HRC Mat.: Ms58

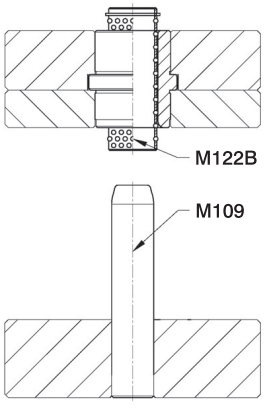






Sipariş Kodu	d1	L1	Hmax	L4	L	L2	d2	d3	d4	L3
M122B-1240	**12**	40	50	2.1	24	6	16	22	26	18
M122B-1256		56	82							
M122B-1845		45	44							
M122B-1856	**18**	56	66	3	34	11	24	30	35	23
M122B-1871		71	96							
M122B-3056		56	32							
M122B-3075	**30**	75	70	4.8	54	21	38	46	52	33
M122B-3095		95	110							

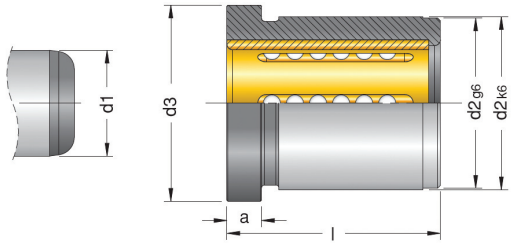




M166 **Lineer Şapkalı Rulman Burç** / Lineer Guide Bush With Cage

Mat.: 1.3505 (100cR6) ≂62±2 HRC



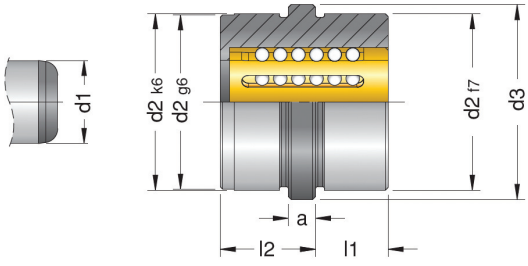


Sipariş Kodu	d1	L	Bilya Çapı	a	d3	d2
M166/18x35	**18**	35	3	6	34	30
M166/20x35	**20**	35			36	32
M166/20x45	**20**	45				
M166/20x55	**20**	55				
M166/30x45	**30**	45	4	8	54	48
M166/30x63	**30**	63				
M166/40x45	**40**	45			66	60
M166/40x63	**40**	63				

M166F **Lineer Flanşlı Burç** / Lineer Guide Bush With Cage

Mat.: 1.3505 (100cR6) ≂62±2 HRC



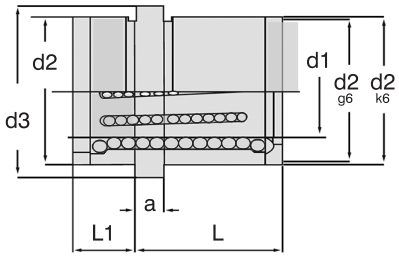


Sipariş Kodu	d1	l1	l2	d2	d3
M166F/12x17	**12**	17	12	22	25
M166F/18x22	**18**	22	17	30	33
M166F/24x27	**24**	27	22	38	41
M166F/30x36	**30**	36	27	46	49

M166K **Lineer Kuyruklu Rulman Burç** / Lineer System Flanged Roller Bush

Mat.: 1.3505 (100cR6) ≂62±2 HRC





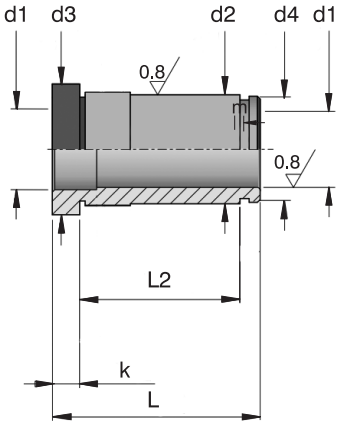
Sipariş Kodu	d1	L	d2	d3	a	L1	Bilya Ø
M166K/12x22	**12**	22	24	28	6	8	3
M166K/18x26	**18**	26	30	34	6	9	3
M166K/20x26	**20**	26	32	36	6	9	3
M166K/20x36		36					
M166K/25x26	**25**	26	40	45	6	10	3
M166K/25x36		36					
M166K/25x46		46					
M166K/30x46	**30**	46	48	54	8	12	4
M166K/30x66		66					
M166K/40x46	**40**	46	60	66	8	12	4
M166K/40x66		66					

M120SY Segmanlı Şapkalı Burç / Yerli Standart

Mat.: 1.3505 (100cR6) ≂62±2 HRC



Yerli Standart



Sipariş Kodu	d1	L	d2	d3	k	L2	m	d4	Segman
M120SY/12x26		26				16			
M120SY/12x36		36				26			DIN
M120SY/12x46	**12**	46	16	19	4	36	1.2	15.2	471
M120SY/12x56		56				46			Ø 16
M120SY/12x66		66				56			
M120SY/14x26		26				16			
M120SY/14x36		36				26			DIN
M120SY/14x46	**14**	46	20	25	6	36	1.5	19	471
M120SY/14x56		56				46			Ø 20
M120SY/14x66		66				56			
M120SY/14X76		76				66			
M120SY/16x26		26				16			
M120SY/16x36		36				26			
M120SY/16x46		46				36			DIN
M120SY/16x56	**16**	56	24	28	6	46	1.4	22.9	471
M120SY/16x66		66				56			Ø 24
M120SY/16x76		76				66			
M120SY/16x86		86				76			
M120SY/20x26		26				16			
M120SY/20x36		36				26			
M120SY/20x46		46				36			DIN
M120SY/20x56	**20**	56	28	32	6	46	1.8	26.6	471
M120SY/20x66		66				56			Ø 28
M120SY/20x76		76				66			
M120SY/20x86		86				76			
M120SY/20x96		96				86			
M120SY/25x26		26				14			
M120SY/25x36		36				24			
M120SY/25x46		46				34			DIN
M120SY/25x56	**25**	56	34	38	8	44	1.8	32.3	471
M120SY/25x66		66				54			Ø 34
M120SY/25x76		76				64			
M120SY/25x86		86				74			
M120SY/25x96		96				84			
M120SY/25x106		106				94			

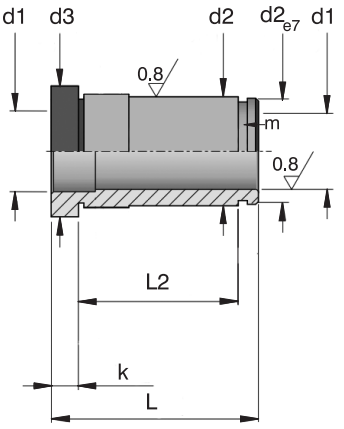
Sipariş Kodu	d1	L	d2	d3	k	L2	m	d4	Segman
M120SY/30x36		36				21			
M120SY/30x46		46				31			
M120SY/30x56		56				41			
M120SY/30x66		66				51			SDIN
M120SY/30x76	**30**	76	39	43	10	61	2.0	37	471
M120SY/30x86		86				71			Ø 39
M120SY/30x96		96				81			
M120SY/30x106		106				91			
M120SY/30x116		116				101			
M120SY/40x46		46				28			
M120SY/40x56		56				38			
M120SY/40x66		66				48			
M120SY/40x76		76				58			SDIN
M120SY/40x86	**40**	86	54	58	10	68	2.25	51	471
M120SY/40x96		96				78			Ø 54
M120SY/40x106		106				88			
M120SY/40x116		116				98			
M120SY/40x126		126				108			
M120SY/40x136		136				118			
M120SY/40x146		146				128			

M120S Segmanlı Şapkalı Burç / Avrupa Standart

Mat.: 1.3505 (100cR6) ≂62±2 HRC



Avrupa Standart



Sipariş Örneği M120S/d1xL

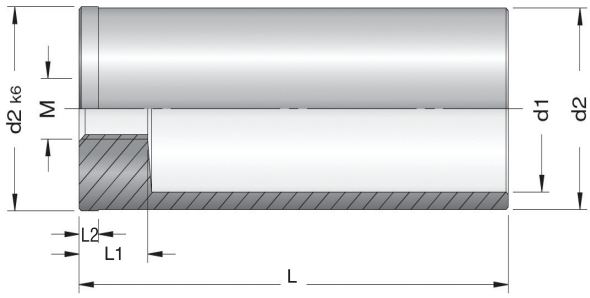
d1	L	d2	d3	k	L2	m	Segman
12	27	18	25	6	18	1.5	DIN 471 Ø 18
	36				27		
	46				37		
	56				47		
14	27	20	25	6	18	1.5	DIN 471 Ø 20
	36				27		
	46				37		
15	56				47		
	66				57		
	76				67		
	86				77		
	96				87		
16	27	22	27	6	18	1.5	DIN 471 Ø 22
	36				27		
	46				37		
	56				47		
18	27	26	31	6	18	1.5	DIN 471 Ø 26
	36				27		
	46				37		
	56				47		
	66				57		
20	76				67		
	86				77		
	96				87		
	116				107		
22	27	30	35	6	17	1.8	DIN 471 Ø 30
	36				26		
	46				36		
	56				46		
	66				56		
24	76				66		
	86				76		
	96				86		
	116				106		
	136				126		
	156				146		

d1	L	d2	d3	k	L2	m	Segman
30	27	42	47	10	15	2.0	SDIN 471 Ø 42
	36				24		
	46				34		
	56				44		
	66				54		
32	76				64		
	86				74		
	96				84		
	106				94		
	116				104		
	136				124		
	156				144		
	176				164		SDIN
40	36	54	60	10	19	2.25	471 Ø 54
	46				29		
	56				39		
42	66				49		
	76				59		
	86				69		
	96				79		
	106				89		
	116				99		
	136				119		
	156				139		
	176				159		
	196				179		
	216				199		
	236				219		
	246				229		

M140 **Tespit Burç** / Avrupa Standart

Mat.: 1-7131 (16 MnCr5) ≃ 62±2 HRC





Sipariş Kodu	d2	L	d1	M	L1	L2
M140-20030		30				
M140-20040		40				
M140-20060		60				
M140-20080	**20**	80	16	8	13	2.5
M140-20100		100				
M140-20120		120				
M140-20140		140				
M140-20160		160				
M140-26030		30				
M140-26040		40				
M140-26060		60				
M140-26080		80				
M140-26100	**26**	100	21	10	13	2.5
M140-26120		120				
M140-26140		140				
M140-26160		160				
M140-26180		180				
M140-30040		40				
M140-30060		60				
M140-30080		80				
M140-30100		100				
M140-30120	**30**	120	25	12	13	2.5
M140-30140		140				
M140-30160		160				
M140-30180		180				
M140-30200		200				
M140-30240		240				

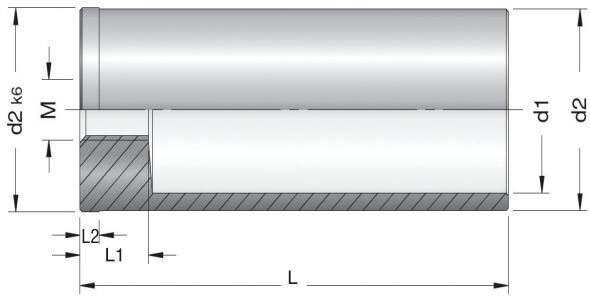
Sipariş Kodu	d2	L	d1	M	L1	L2
M140-42040		40				
M140-42060		60				
M140-42080		80				
M140-42100		100				
M140-42120		120				
M140-42140	**42**	140	33	12	13	4.5
M140-42160		160				
M140-42180		180				
M140-42200		200				
M140-42220		220				
M140-42260		260				
M140-42300		300				
M140-54060		60				
M140-54080		80				
M140-54120		120				
M140-54160	**54**	160	43	12	13	4.5
M140-54200		200				
M140-54240		240				
M140-54280		280				

M140Y **Tespit Burcu** / Yerli Standart

Mat.: 1.7131 (16 MnCr5) ≃ 62±2 HRC / Case Hardaned



Yerli Standart

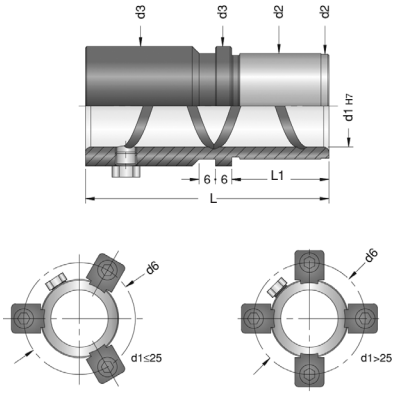


Sipariş Kodu	d2	L	d1	M	L1	L2
M140Y/24X60		60				
M140Y/24X80	**24**	80	16	8	13	2.5
M140Y/24X100		100				
M140Y/24X120		120				
M140Y/24X140		140				
M140Y/28X60		60				
M140Y/28X80		80				
M140Y/28X100	**28**	100	20	10	13	2.5
M140Y/28X120		120				
M140Y/28X140		140				
M140Y/28X160		160				
M140Y/28X180		180				
M140Y/34X40		40				
M140Y/34X60		60				
M140Y/34X80		80				
M140Y/34X100		100				
M140Y/34X120	**34**	120	25	12	13	2.5
M140Y/34X140		140				
M140Y/34X160		160				
M140Y/34X180		180				
M140Y/39X80		80				
M140Y/39X100		100				
M140Y/39X120	**39**	120	30	12	13	4.5
M140Y/39X140		140				
M140Y/39X160		160				

M123 Uzun Kılavuz Burç/ İnce Tip

Mat.: 1-7131 (16MnCr5) ≃ 62±2 HRC



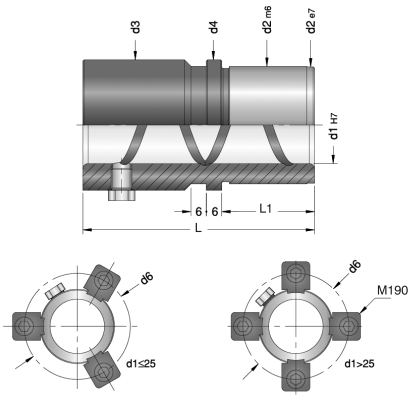


Sipariş Kodu	d1	L	L1	d2	d3	d6
M123/165923	**16**	59	**23**	30	32	42
M123/207026	**20**	70	**26**	28	34	44
M123/207036			**36**			
M123/258026	**25**	80	**26**	34	39	49
M123/258036			**36**			
M123/309036	**30**	90	**36**	39	44	54
M123/309046			**46**			
M123/4010036	**40**	100	**36**	50	54	64
M123/4010046			**46**			
M123/5012046	**50**	120	**46**	60	64	74
M123/5012056			**56**			
M123/6313056	**63**	130	**56**	80	87	97

M123K Uzun Kılavuz Burç/ Kalın Tip

Mat.: 1-7131 (16MnCr5) ≃ 62±2 HRC



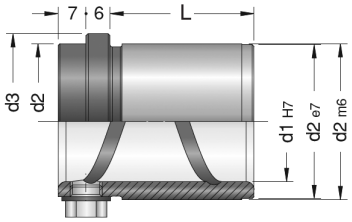


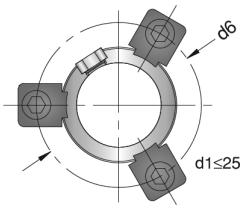
Sipariş Kodu	d1	L	L1	d2	d3	d4	d6
M123K/ 194323	**19**	**43**	23	32	39	40	52,4
M123K/ 195923		**59**					
M123K/ 204323	**20**	**43**	23	32	39	40	52,4
M123K/ 205923		**59**					
M123K/ 245923	**24**	**59**	23	40	46	48	60,8
M123K/ 247923		**79**					
M123K/ 255923	**25**	**59**	23	40	46	48	60,8
M123K/ 257923		**79**					
M123K/ 307530	**30**	**75**	30	48	53	56	69
M123K/ 309330		**93**					
M123K/ 327530	**32**	**75**	30	48	53	56	69
M123K/ 329330		**93**					
M123K/ 388237	**38**	**82**	37	58	63	66	79
M123K/ 3810837		**108**					
M123K/ 408237	**40**	**82**	37	58	63	66	79
M123K/ 4010837		**108**					
M123K/ 489737	**48**	**97**	47	70	77	80	93,2
M123K/ 4812747		**127**					
M123K/ 509747	**50**	**97**	47	70	77	80	93,2
M123K/ 5012747		**127**					
M123K/ 6011660	**60**	**116**	60	85	92	95	108,4
M123K/ 6015060		**150**					
M123K/ 6311660	**63**	**116**	60	85	92	95	108,4
M123K/ 6315060		**150**					
M123K/ 8012060	**80**	**120**	60	105	115	118	131,5
M123K/ 8015060		**150**					

M124 Kısa Burç/ İnce Tip

Mat.: 1-7131 (16MnCr5) ≃ 62±2 HRC





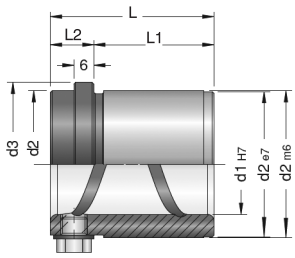


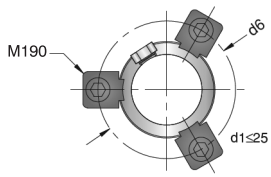
Sipariş Kodu	d1	d2	L	d3	d6
M124/163623	**16**	30	**23**	34	44
M124/202826	**20**	28	**26**	34	44
M124/253426	**25**	34	**26**	39	49
M124/303926	**30**	39	**26**	44	54
M124/303936			**36**		
M124/405036	**40**	50	**36**	54	64
M124/405046			**46**		
M124/506046	**50**	60	**46**	64	74
M124/638546	**63**	85	**46**	95	105
M124/638556			**56**		

M124K Kısa Burç/ Kalın Tip

Mat.: 1-7131 (16MnCr5) 62±2 HRC





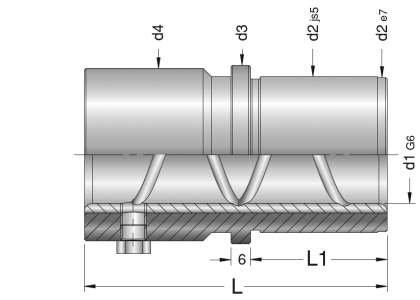


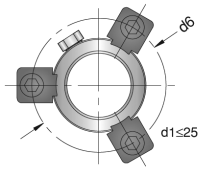
Sipariş Kodu	d1	d2	L	L1	L2	d3	d6
M124K/193523	**19**	32	35	**23**	12	40	52,4
M124K/203523	**20**	32	35	**23**	12	40	52,4
M124K/243523	**24**	40	35	**23**	12	48	60,8
M124K/253523	**25**	40	35	**23**	12	48	60,8
M124K/304230	**30**	48	42	**30**	12	56	69
M124K/324230	**32**	48	42	**30**	12	56	69
M124K/385237	**38**	58	52	**37**	15	66	79
M124K/405237	**40**	58	52	**37**	15	66	79
M124K/486547	**48**	70	65	**47**	18	80	93,2
M124K/506547	**50**	70	65	**47**	18	80	93,2
M124K/608060	**60**	85	80	**60**	20	95	108,4
M124K/638060	**63**	85	80	**60**	20	95	108,4
M124K/808060	**80**	105	80	**60**	20	118	131,5

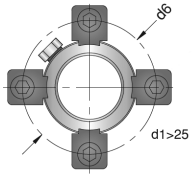
M125 **Uzun Bronzlu Burç**/ Guide Bush With Bronze

Mat.: 1-1191 (CK 45) + Bronze ≂52±2 HRC Sementasyon (Case Hardaned)





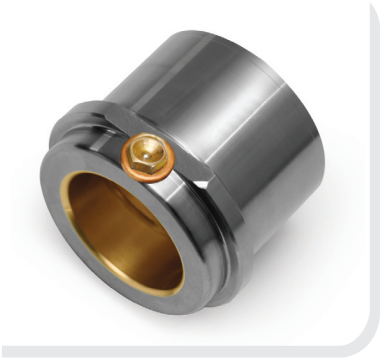


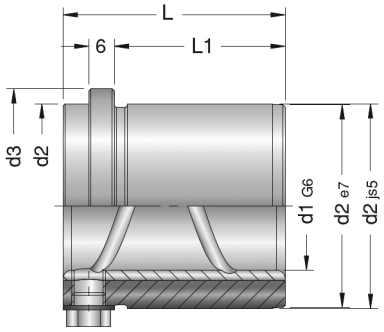


Sipariş Kodu	d1	L	L1	d2	d3	d4
M125/165923	**16**	59		30	34	32
M125/194323		43	23			
M125/195923	**19**	59		32	40	39
M125/195933			33			
M125/204323		43	23			
M125/205923	**20**	59		32	40	39
M125/205933			33			
M125/245923		59	23			
M125/247923	**24**	79		40	48	46
M125/247933			33			
M125/255923		59	23			
M125/257923	**25**	79		40	48	46
M125/257933			33			
M125/307530		75	30			
M125/309330	**30**	93		48	55	53
M125/309340			40			
M125/327530		75	30			
M125/329330	**32**	93		48	55	53
M125/329340			40			
M125/388237		82	37			
M125/3810837	**38**	108		58	65	63
M125/3810847			47			
M125/408237		82	37			
M125/4010837	**40**	108		58	65	63
M125/4010847			47			
M125/489747		97	47			
M125/4812747	**48**	127		70	80	77
M125/4812757			57			
M125/509747		97	47			
M125/5012747	**50**	127		70	80	77
M125/5012757			57			
M125/6011660	**60**	116	60	85	95	92
M125/6015060		150				
M125/6311660	**63**	116	60	85	95	92
M125/6315060		150				
M125/8012060	**80**	120	60	105	118	115
M125/8015060		150				

M126 **Kısa Bronzlu Burç**/ Guide Bush With Bronze

Mat.: 1-1191 (CK 45) + Bronze ≈52±2 HRC Sementasyon (Case Hardaned)



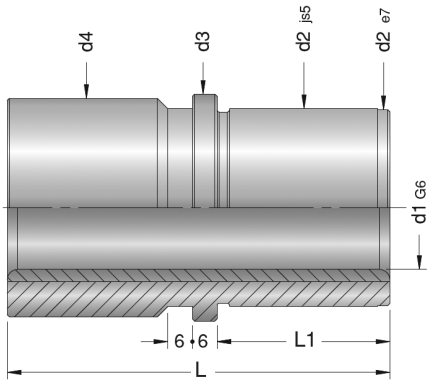


Sipariş Kodu	d1	L	L1	d2	d3
M126/ 163523	**16**	35	23	30	34
M126/ 193523	**19**			32	40
M126/ 194533		45	33		
M126/ 203523	**20**	35	23	32	40
M126/ 204533		45	33		
M126/ 243523	**24**	35	23	40	48
M126/ 244533		45	33		
M126/ 253523	**25**	35	23	40	48
M126/ 254533		45	33		
M126/ 304230	**30**	42	30	48	55
M126/ 305240		52	40		
M126/ 324230	**32**	42	30	48	55
M126/ 325240		52	40		
M126/ 385237	**38**	52	37	58	65
M126/ 386247		62	47		
M126/ 405237	**40**	52	37	58	65
M126/ 406247		62	47		
M126/ 486547	**48**	65	47	70	80
M126/ 487557		75	57		
M126/ 506547	**50**	65	47	70	80
M126/ 507557		75	57		
M126/ 608060	**60**	80	60	85	95
M126/ 638060	**63**	80	60	85	95
M126/ 808060	**80**	80	60	105	118

M132 **Uzun Sinterli Burç**/ Guide Bush With Sintered

Mat.: 1-1191 (CK 45) + Sinter ≃52±2 HRC İndiksiyon (Induction)



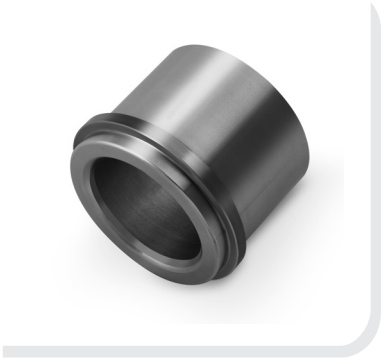


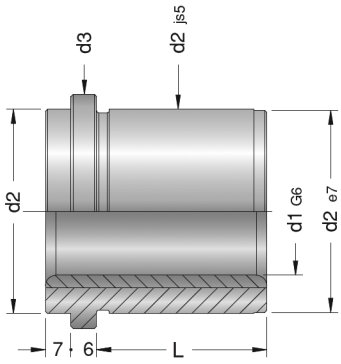
Sipariş Kodu	d1	L	L1	d2	d3	d4
M132/207026	**20**	70	26	32	40	38
M132/207036			36			
M132/258026	**25**	80	26	40	47	45
M132/258036			36			
M132/309036	**30**	90	36	48	54	52
M132/309046			46			
M132/4010036	**40**	100	36	58	64	62
M132/4010046			46			
M132/5012046	**50**	120	46	70	78	76
M132/5012056			56			
M132/6315056	**63**	150	56	85	93	91
M132/8015060	**80**	150	60	105	118	115

M133

Kısa Sinterli Burç/ Guide Bush With Sintered

Mat.: 1-1191 (CK 45) + Sinter ≈ 52±2 HRC İndiksiyon (Induction)



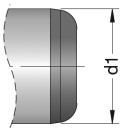


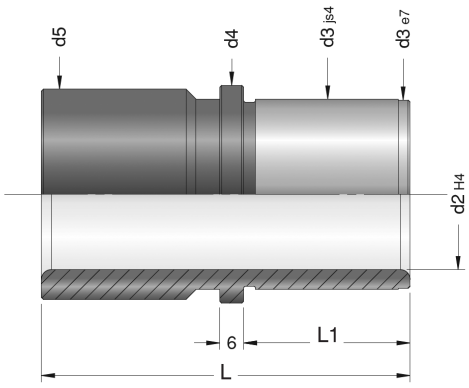
Sipariş Kodu	d1	d2	L	d3
M133/203226	**20**	32	26	40
M133/203236			36	
M133/254026	**25**	40	26	47
M133/254036			36	
M133/304826	**30**	48	26	54
M133/304836			36	
M133/405836	**40**	58	36	64
M133/405846			46	
M133/5007046	**50**	70	46	78
M133/6308556	**63**	85	56	93
M133/8010560	**80**	105	60	118

M127 **Uzun Çelik Bilyalı Kafes Burcu**/ Ball Bearing Guide Bush

Mat.: 1-3505 (100Cr6) ≈ 62±2 HRC Sertleştirme (Hardaned)





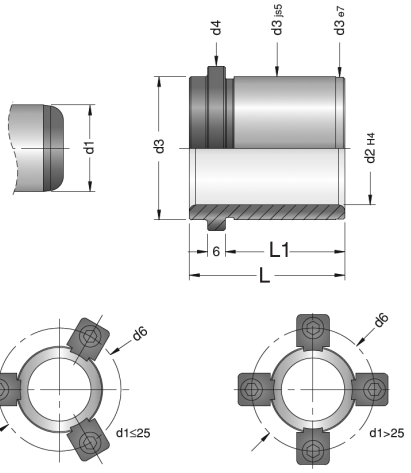


Sipariş Kodu	d1	L	L1	d2	d3	d4	d5
M127/1504323	15	43	23	21	30	34	32
M127/1505923		59					
M127/1505933			33				
M127/1604323	16	43	23	22	30	34	32
M127/1605923		59					
M127/1605933			33				
M127/1904323	19	43	23	25	32	40	39
M127/1905923		59					
M127/1905933			33				
M127/2004323	20	43	23	26	32	40	39
M127/2005923		59					
M127/2005933			33				
M127/2405923	24	59	23	30	40	48	46
M127/2407923		79					
M127/2407933			33				
M127/2505923	25	59	23	31	40	48	46
M127/2507923		79					
M127/2507933			33				
M127/3007530	30	75	30	38	48	55	53
M127/3009330		93					
M127/3009340			40				
M127/3207530	32	75	30	40	48	55	53
M127/3209330		93					
M127/3209340			40				
M127/3808237	38	82	37	46	58	65	63
M127/3810837		108					
M127/3810847			47				
M127/4008237	40	82	37	48	58	65	63
M127/4010837		108					
M127/4010847			47				
M127/4809747	48	97	47	56	70	80	77
M127/4812747		127					
M127/4812757			57				
M127/5009747	50	97	47	58	70	80	77
M127/5012747		127					
M127/5012757			57				
M127/6011660	60	116	60	68	85	95	92
M127/6015060		150					
M127/6311660	63	116	60	71	85	95	92
M127/6315060		150					
M127/8012060	80	120	60	92	105	118	115
M127/8015060		150					

M128 **Kısa Çelik Bilyalı Kafes Burcu**/ Ball Bearing Guide Bush

Mat.: 1-3505 (100Cr6) ≃ 62±2 HRC Sertleştirme (Hardaned)



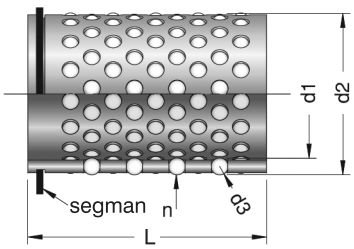


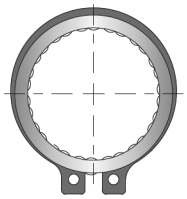
Sipariş Kodu	d1	L	L1	d2	d3	d4
M128/153523	**15**	35	23	21	30	34
M128/154533		45	33			
M128/163523	**16**	35	23	22	30	34
M128/164533		45	33			
M128/193523	**19**	35	23	25	32	40
M128/194533		45	33			
M128/203523	**20**	35	23	26	32	40
M128/204533		45	33			
M128/243523	**24**	35	23	30	40	48
M128/244533		45	33			
M128/253523	**25**	35	23	31	40	48
M128/254533		45	33			
M128/304230	**30**	42	30	38	48	55
M128/305240		52	40			
M128/324230	**32**	42	30	40	48	55
M128/325240		52	40			
M128/385237	**38**	52	37	46	58	65
M128/386247		62	47			
M128/405237	**40**	52	37	48	58	65
M128/406247		62	47			
M128/486547	**48**	65	47	56	70	80
M128/487557		75	57			
M128/506547	**50**	65	47	58	70	80
M128/507557		75	57			
M128/608060	**60**	80	60	68	85	95
M128/638060	**63**	80	60	71	85	95
M128/808060	**80**	80	60	92	105	118

M160 **Bilyalı Kafes**/ Ball Cage

Mat.: Ms58 Ball Mat.: 100 Cr6 DIN 471 DIN 5401







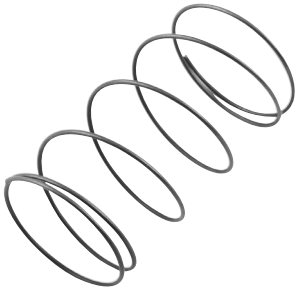
Sipariş Kodu	d1	L	d2	d3	n
M160/ 1240	12	40	16	2	176
M160/ 1256		56			272
M160/ 1545	15	45	21	3	140
M160/ 1556		56			196
M160/ 1571		71			238
M160/ 1645	16	45	22	3	140
M160/ 1656		56			196
M160/ 1671		71			238
M160/ 1845	18	45	24	3	176
M160/ 1856		56			240
M160/ 1871		71			272
M160/ 1945	19	45	25	3	180
M160/ 1956		56			234
M160/ 1971		71			306
M160/ 1980		80			342
M160/ 1995		95			414
M160/ 2045	20	45	26	3	180
M160/ 2056		56			234
M160/ 2071		71			306
M160/ 2080		80			342
M160/ 2095		95			414
M160/ 2445	24	45	30	3	180
M160/ 2456		56			240
M160/ 2471		71			280
M160/ 2480		80			320
M160/ 2495		95			440
M160/24105		105			480
M160/24120		120			560
M160/ 2545	25	45	31	3	180
M160/ 2556		56			240
M160/ 2571		71			280
M160/ 2580		80			320
M160/ 2595		95			440
M160/25105		105			480
M160/25120		120			560
M160/ 3045	30	45	38	4	140
M160/ 3056		56			180
M160/ 3075		75			240
M160/ 3080		80			280
M160/ 3095		95			340
M160/30105		105			380
M160/30120		120			420
M160/30140		140			500

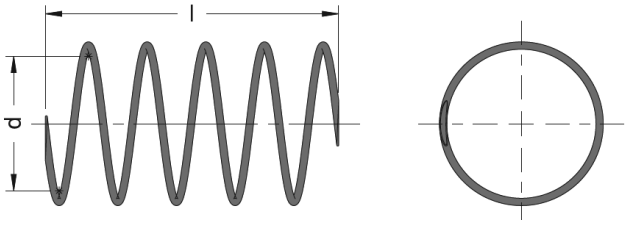
Sipariş Kodu	d1	L	d2	d3	n
M160/ 3245	32	45	40	4	140
M160/ 3256		56			180
M160/ 3275		75			240
M160/ 3280		80			280
M160/ 3295		95			340
M160/32105		105			380
M160/32120		120			420
M160/32140		140			500
M160/ 3856	38	56	46	4	216
M160/ 3871		71			288
M160/ 3880		80			336
M160/ 3895		95			408
M160/38105		105			456
M160/38120		120			528
M160/38140		140			624
M160/38160		160			720
M160/ 4056	40	56	48	4	216
M160/ 4071		71			288
M160/ 4080		80			336
M160/ 4095		95			408
M160/40105		105			456
M160/40120		120			528
M160/40140		140			624
M160/40160		160			720
M160/ 4871	48	71	56	4	360
M160/ 4880		80			390
M160/ 4895		95			480
M160/48105		105			540
M160/48120		120			600
M160/48140		140			720
M160/48160		160			840
M160/ 5071	50	71	58	4	360
M160/ 5080		80			390
M160/ 5095		95			480
M160/50105		105			540
M160/50120		120			600
M160/50140		140			720
M160/50160		160			840
M160/ 6085	60	85	68	4	504
M160/ 6095		95			558
M160/60105		105			612
M160/60120		120			720
M160/60140		140			828

Sipariş Kodu	d1	L	d2	d3	n
M160/ 6160	60	160	68	4	972
M160/ 6385	63	85	71	4	504
M160/ 6395		95			558
M160/63105		105			612
M160/63120		120			720
M160/63140		140			828
M160/63160		160			972
M160/80120	80	120	92	6	286
M160/80140		140			330
M160/80160		160			374
M160/80180		180			462
M160/80200		200			506

M161 Bilyalı Kafes Destek Yayı / Helical Spring for Ball Cage Retention

Mat.: Yay Çeliği (Spring Steel)





d	L	Not / Note
19	40-140	L 10 mm. aralıklarla L 10 mm. gradation
20	40-140	
24	40-180	
25	40-180	
30	50-230	
32	50-230	
38	60-230	
40	60-230	
48	70-280	
50	70-280	
60	80-250	
63	80-250	

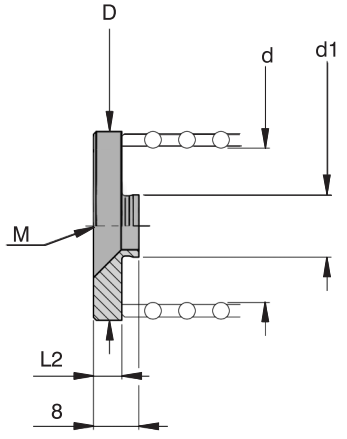
Sipariş Kodu Örneği

Spiral Yay	=	M161/
Ø Kolon	=	19
Yay Boy	=	40
Sipariş Kodu	=	M161/1940

M2036 Bilyalı Kafes Stoplama Flanşı /

Mat. : 1.7131 (16MnCr5)



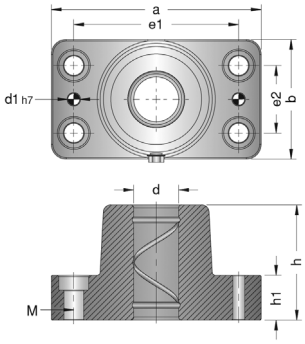


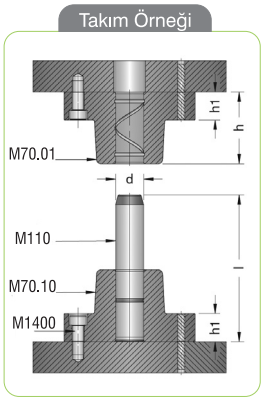
Sipariş Kodu	d	D	d1	M	L2	Kolon Çapı
M2036/20	20	24	11	M8	5	Ø 20
M2036/25	25	29	11	M8	5	Ø 25
M2036/30	30	36	11	M8	5	Ø 30
M2036/40	40	46	11	M8	5	Ø 40
M2036/50	50	56	11	M8	5	Ø 50
M2036/60	60	67	17	M12	7	Ø 60
M2036/63	63	67	17	M12	7	Ø 63

M70-01 Döküm Blok

Mat.: GG25





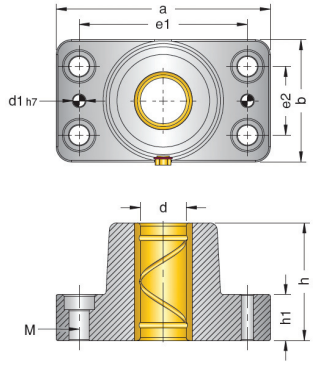


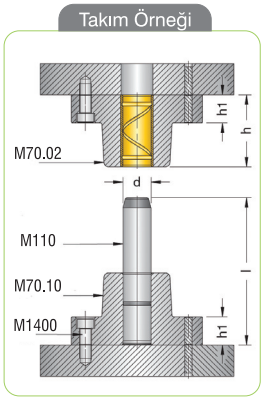
Sipariş Kodu	d	d1	h	h1	a	b	e1	e2	M
M70-01-40	**40**	10	77	30	130	80	95	45	12
M70-01-50	**50**	10	95	35	160	96	118	55	14
M70-01-63	**63**	12	120	35	180	110	132	62	16
M70-01-80	**80**	14	120	40	215	130	160	75	20

M70-02 Bronz Döküm Blok

Mat.: GG25 / Bronze



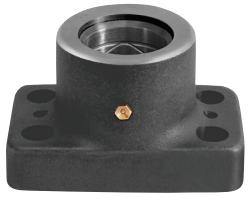


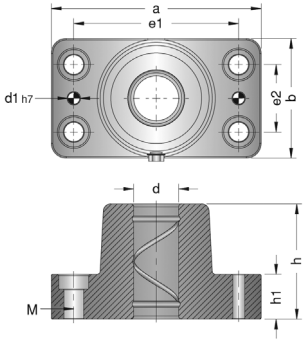


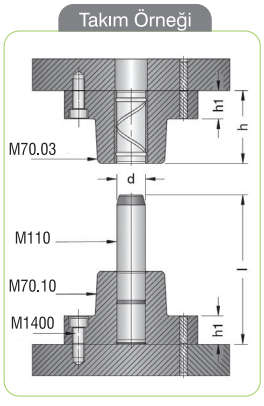
Sipariş Kodu	d	d1	h	h1	a	b	e1	e2	M
M70-02-40	**40**	10	77	30	130	80	95	45	12
M70-02-50	**50**	10	95	35	160	96	118	55	14
M70-02-63	**63**	12	120	35	180	110	132	62	16
M70-02-80	**80**	14	120	40	215	130	160	75	20

M70-03 Çelik Kaymalı Döküm Blok

Mat.: GG25 / 1.7131 (16MnCr5) Sementasyon





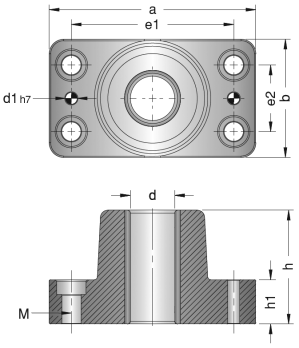


Sipariş Kodu	d	d1	h	h1	a	b	e1	e2	M
M70-03-40	**40**	10	77	30	130	80	95	45	12
M70-03-50	**50**	10	95	35	160	96	118	55	14
M70-03-63	**63**	12	120	35	180	110	132	62	16
M70-03-80	**80**	14	120	40	215	130	160	75	20

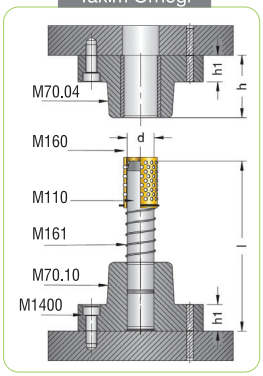
M70-04 Bilyalı Döküm Blok

Mat.: GG25 / 1.3505 (100Cr6) ≂62±2 HRC
Sementasyon





Takım Örneği

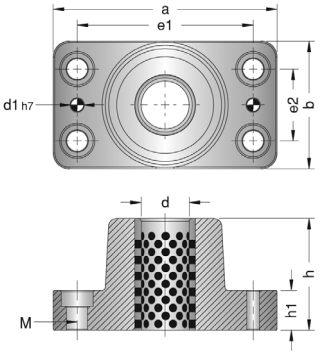


Sipariş Kodu	d	d1	h	h1	a	b	e1	e2	M
M70-04-40	**40**	10	77	30	130	80	95	45	12
M70-04-50	**50**	10	95	35	160	96	118	55	14
M70-04-63	**63**	12	120	35	180	110	132	62	16
M70-04-80	**80**	14	120	40	215	130	160	75	20

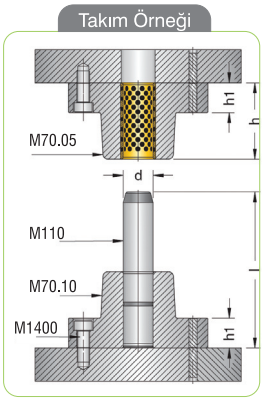
M70-05 Grafitili Döküm Blok

Mat.: GG25 / SAE 430B HB≥180





Takım Örneği

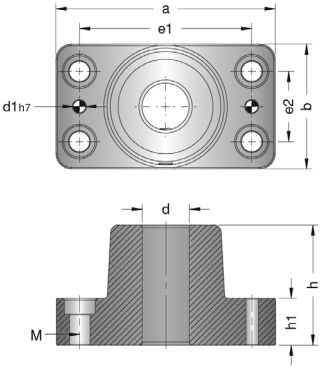


Sipariş Kodu	d	d1	h	h1	a	b	e1	e2	M
M70-05-40	**40**	10	77	30	130	80	95	45	12
M70-05-50	**50**	10	95	35	160	96	118	55	14
M70-05-63	**63**	12	120	35	180	110	132	62	16
M70-05-80	**80**	14	120	40	215	130	160	75	20

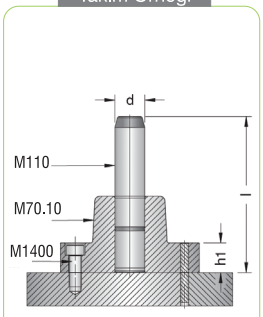
M70-10 Kolon Sabitleme Bloğu

Mat.: GG25 / SAE 430B HB≥180





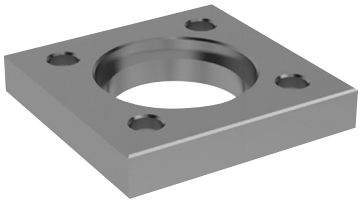
Takım Örneği

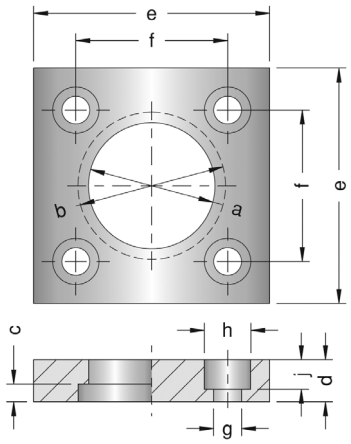


Sipariş Kodu	d	d1	h	h1	a	b	e1	e2	M
M70-10-40	**40**	10	77	30	130	80	95	45	12
M70-10-50	**50**	10	95	35	160	96	118	55	14
M70-10-63	**63**	12	120	35	180	110	132	62	16
M70-10-80	**80**	14	120	40	215	130	160	75	20

M193 **Kolon Tutucu Flanş** / Clamping Flange

Mat.: 1040

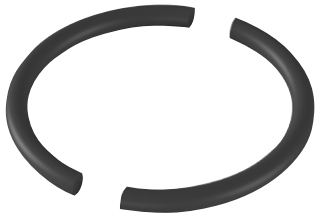


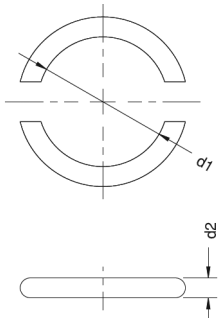


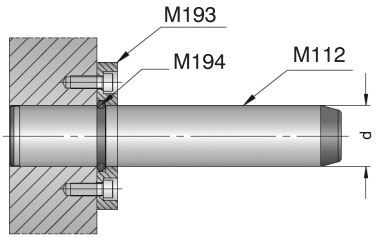
Sipariş Kodu	b	g	h	j	d	c	e	f	a	PSA Mabec Code	RENAULT Mabec Code
M193/25	28	6.6	11	7	10	2.7	45	31	25	Z000 248 844	P483 784 100
M193/32	37	6.6	11	7	10	4.2	56	36	32	P446 932 711	P483 784 600
M193/40	45	6.6	11	7	12	4.2	70	50	40	P446932 701	P483 795 100
M193/50	55	9	16	9	14	4.2	80	55	50	P446 932 702	P483 795 401
M193/63	70	11	18	11	18	6.2	100	70	63	P446 932 703	P483 795 801
M193/80	87	13	22	14	20	6.2	110	80	80	P446 932 704	P483 796 001
M193/100	107	13	22	14	20	6.2	140	100	100		P483 796 401

M194 **Kolon Segmanı** / Retaining Ring

Mat.: 1040



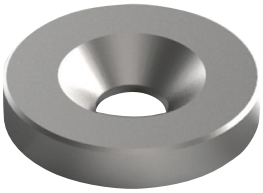


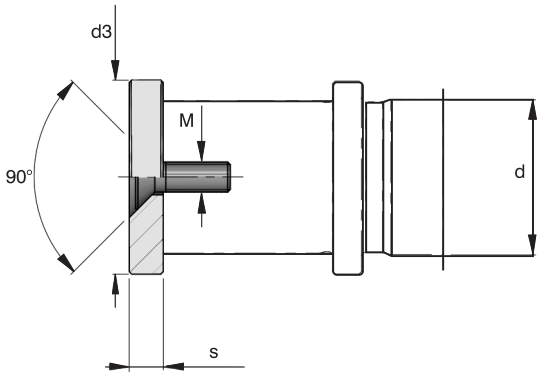


Sipariş Kodu	d1	d2	d	RENAULT Mabec Code
M194/25	22.5	2.5	25	P446 180 200
M194/32	28	4	32	P446 180 300
M194/40	36	4	40	P446 180 400
M194/50	46	4	50	P446 180 500
M194/63	57	6	63	P446 180 600
M194/80	74	6	80	P446 180 700
M194/100	94	6	100	P446 180 800

M2034 Kolon Montaj Flanşı /

Mat. : Cf53

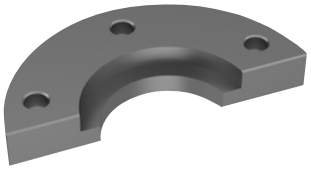


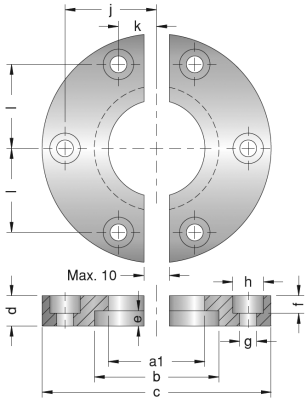


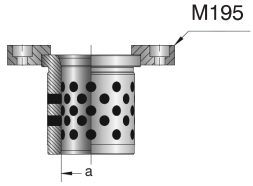
Sipariş Kodu	d3	d	s	M
M2034/22	22	Ø 15/16	5.5	M8 x 20
M2034/25	25	Ø 19/20		
M2034/32	32	Ø 24/25		
M2034/40	40	Ø 32/30	7.5	
M2034/50	50	Ø 38/40	9.5	
M2034/60	60	Ø 48/50		
M2034/73	73	Ø 60/63		
M2034/93	93	Ø 80	12	M12 x 20

M195 Burç Tutucu Flanş / Retaining Flange

Mat.: Cf53



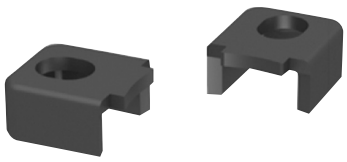


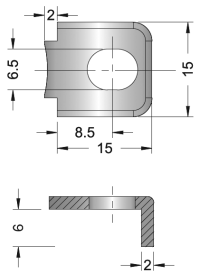


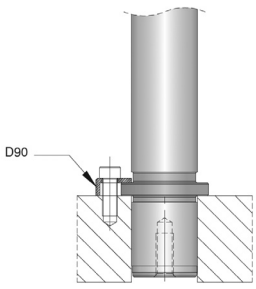
Sipariş Kodu	a1	b	c	d	e	f	g	h	k	j	l	a	PSA MABEC CODE	RENAULT MABEC CODE
M195/ 25	32	41	72	10	5	7	6.6	12	20		20	25		M321 534 500
M195/ 32	40	51	80	12	6	7	6.6	12	21		25	32	P446 932 717	M321 544 501
M195/ 40	50	61	100	12	8	7	6.6	12	14	41	38.5	40	P446 932 712	M321 548 501
M195/ 50	63	72	125	16	10	9	9	16	17	49	46	50	P446 932 713	M321 552 601
M195/ 63	80	91	140	20	12	11	11	18	17	57.5	55	63	P446 932 714	M321 556 601
M195/ 83	100	113	180	25	16	13	14	22	20	72	70	80	P446 932 715	M321 560 601
M195/ 100	125	141	200	32	20	13	14	22	25	85	81	100		M321 562 700

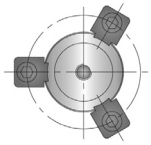
M190 **Burç Tutucu** / Pillar & Bush Clamp

Sertlik : 40-42 HRC



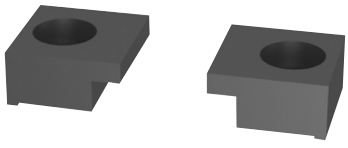


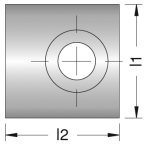


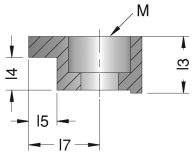


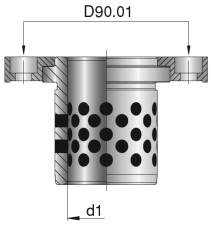
M191 **Burç Tutucu Cnomo** / Pillar & Bush Clamp

Sertlik : 40-42 HRC





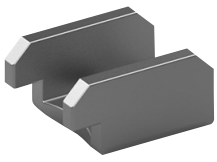


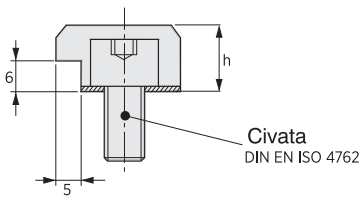


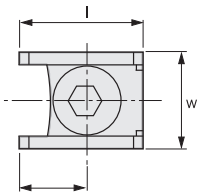
Sipariş Kodu	d1	M	l1	l2	l3	l4	l5	l7	FORD Code	BMW Code	PSA Mabec Code
M191/ 01	25	6	20	20	10	6.3	5	12.5	WDX1360 0901	B2 2983 11 2168834	
	32										
	40										
	50										
M191/ 02	63	10	32	32	16	10	10	21	WDX1360 0902	B2 297811 2168842	Z000263005
	80										
	100										
	125										
	160										
M191/ 03	25	10	32	32	16	6	10	21	WDX1360 1001		
	32										
	40										
	50										
	63										
	80										
	100										
	125										

M192 **Burç Tutucu** / Pillar & Bush Clamp

Sertlik : 40-42 HRC







Sipariş Kodu	w	h	L	Civata
M192/01	17,5	12	22,5	M6x20
M192/02	18,9	13	24,6	M8x20
M192/03	23,5	15,5	27,9	M10x20

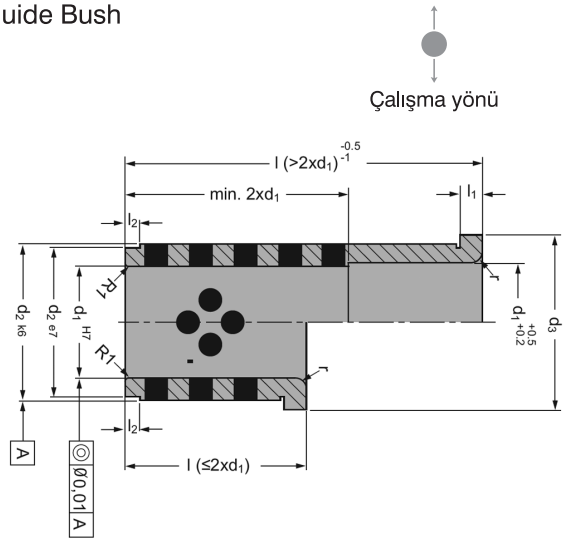
Grafitli Burçlar ve Plakalar



M205 Şapkalı Grafitli Bronz Burç / Oilless Guide Bush

Mat.: SAE 430B Sertlik: HB≥180





Sipariş Kodu	d1	l	d2	d3	l1	l2	r
M205/16X27X22	16	27	22	27	6	2	2
M205/16X36X22		36					
M205/16X46X22		46					
M205/16X56X22		56					
M205/20X27X26	20	27	26	31	6	2	2
M205/20X36X26		36					
M205/20X46X26		46					
M205/20X56X26		56					
M205/20X66X26		66					
M205/20X76X26		76					
M205/25X36X32	25	36	32	38	6	3	3
M205/25X46X32		46					
M205/25X56X32		56					
M205/25X66X32		66					
M205/25X76X32		76					
M205/25X86X32		86					
M205/25X96X32		96					
M205/25X36X30	25	36	30	35	6	3	3
M205/25X46X30		46					
M205/25X56X30		56					
M205/25X66X30		66					
M205/25X76X30		76					
M205/25X86X30		86					
M205/25X96X30		96					
M205/30X36X42	30	36	42	47	6	4	3
M205/30X46X42		46					
M205/30X56X42		56					
M205/30X66X42		66					
M205/30X76X42		76					
M205/30X86X42		86					
M205/30X96X42		96					
M205/30X106X42		106					
M205/30X116X42		116					

Sipariş Kodu	d1	l	d2	d3	l1	l2	r
M205/40X46X54	40	46	54	60	10	5	3
M205/40X56X54		56					
M205/40X66X54		66					
M205/40X76X54		76					
M205/40X86X54		86					
M205/40X96X54		96					
M205/40X116X54		116					
M205/40X136X54		136					
M205/40X156X54		156					
M205/50X76X66	50	76	66	72	10	5	3
M205/50X86X66		86					
M205/50X96X66		96					
M205/50X116X66		116					
M205/50X136X66		136					
M205/50X156X66		156					
M205/50X196X66		196					
M205/60X96X80	60	96	80	86	20	5	3
M205/60X116X80		116					
M205/60X136X80		136					
M205/60X156X80		156					
M205/60X196X80		196					
M205/63X96X80	63	96	80	86	20	5	3
M205/63X116X80		116					
M205/63X136X80		136					
M205/63X156X80		156					
M205/63X196X80		196					

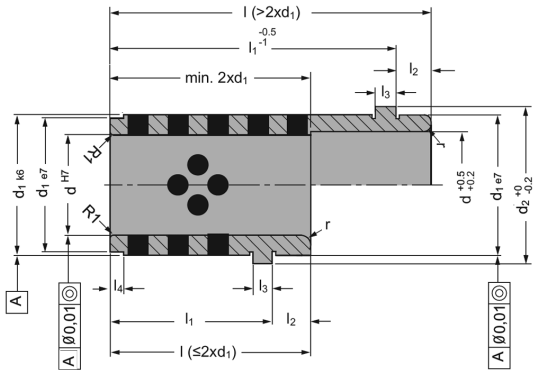
M208 Kuyruklu Grafitli Bronz Burç / Oilless Guide Bush

Mat.: SAE 430B Sertlik: HB≥180





Çalışma yönü



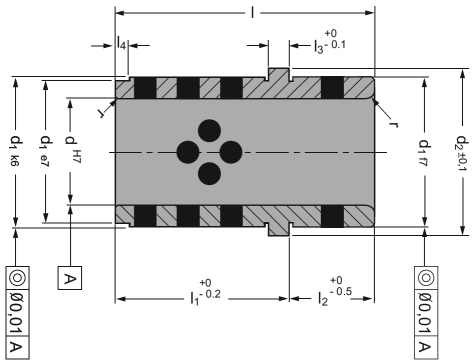
Sipariş Kodu	d	l1	d1	d2	l	l2	l3	l4	r
M208/16X17	16	17	20	25	25	8	6	2	1
M208/16X22		22			30				
M208/16X27		27			35				
M208/16X36		36			44				
M208/16X46		46			54				
M208/16X56		56			64				
M208/16X66		66			74				
M208/16X76		76			84				
M208/20X17	20	17	26	31	25	8	6	2	2
M208/20X22		22			30				
M208/20X27		27			35				
M208/20X36		36			44				
M208/20X46		46			54				
M208/20X56		56			64				
M208/20X66		66			74				
M208/20X76		76			84				
M208/25X22	25	22	30	35	30	8	6	3	3
M208/25X27		27			35				
M208/25X36		36			44				
M208/25X46		46			54				
M208/25X56		56			64				
M208/25X66		66			74				
M208/25X76		76			84				
M208/25X86		86			94				
M208/25X96		96			104				
M208/25X116		116			124				
M208/30X27	30	27	42	47	35	8	6	4	3
M208/30X36		36			44				
M208/30X46		46			54				
M208/30X56		56			64				
M208/30X66		66			74				
M208/30X76		76			84				
M208/30X86		86			94				
M208/30X96		96			104				
M208/30X106		106			114				
M208/30X116		116			124				
M208/30X136		136			144				
M208/30X156		156			164				
M208/40X46	40	46	54	60	58	12	10	5	3
M208/40X56		56			68				
M208/40X66		66			78				
M208/40X76		76			88				
M208/40X86		86			98				
M208/40X96		96			108				
M208/40X116		116			128				
M208/40X136		136			148				
M208/40X156		156			168				
M208/40X196		196			208				

M207 **Ortadan Flanşlı Grafitli Bronz Burç** / Oilless Guide Bush

Mat.: SAE 430B Sertlik: HB≥180







Sipariş Kodu	d	d1	d2	l	l1	l2	l3	l4	r
M207/14x26	**14**	20	25	26	17	9	6	2	1
M207/16x26	**16**	20	25	26	17	9	6	2	1
M207/20x39	**20**	26	31	39	22	17	6	2	1.5
M207/22x49	**22**	30	35	49	27	22	6	2	1.5
M207/25x49	**25**	30	35	49	27	22	6	2	2
M207/30x63	**30**	42	47	63	36	27	6	2	5
M207/40x63	**40**	50	60	63	36	27	8	8	5
M207/50x92	**50**	63	72	92	55	37	8	8	5

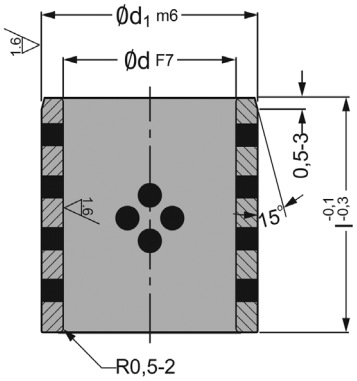
M204 Düz Grafitli Bronz Burç / Oilless Guide Bush

Mat.: SAE 430B Sertlik: HB≥180





Çalışma yönü



Sipariş Kodu	d	l	d1
M204/8x8x12	8	8	12
M204/8x10x12		10	
M204/8x12x12		12	
M204/8x15x12		15	
M204/10x10x14	10	10	14
M204/10x12x14		12	
M204/10x15x14		15	
M204/10x20x14		20	
M204/12x10x18	12	10	18
M204/12x12x18		12	
M204/12x16x18		15	
M204/12x20x18		20	
M204/12x25x18		25	
M204/12x30x18		30	
M204/16x12x22	16	12	22
M204/16x16x22		16	
M204/16x20x22		20	
M204/16x25x22		25	
M204/16x30x22		30	
M204/16x35x22		35	
M204/16x40x22		40	
M204/18x20x24	18	20	24
M204/18x25x24		25	
M204/18x30x24		30	
M204/18x35x24		35	
M204/18x40x24		40	
M204/20x20x28	20	20	28
M204/20x25x28		25	
M204/20x30x28		30	
M204/20x35x28		35	
M204/20x40x28		40	
M204/20x50x28		50	
M204/20x16x30	20	16	30
M204/20x20x30		20	
M204/20x25x30		25	
M204/20x30x30		30	
M204/20x35x30		35	
M204/20x40x30		40	
M204/25x20x33	25	20	33
M204/25x25x33		25	
M204/25x30x33		30	
M204/25x35x33		35	
M204/25x40x33		40	
M204/25x50x33		50	
M204/25x60x33		60	

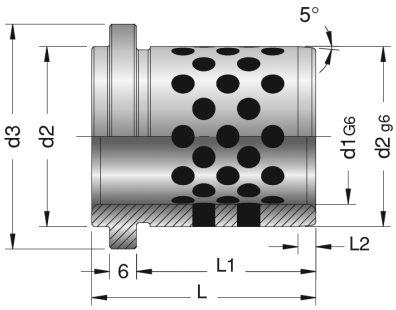
Sipariş Kodu	d	l	d1
M204/25x20x35	25	20	35
M204/25x25x35		25	
M204/25x30x35		30	
M204/25x35x35		35	
M204/25x40x35		40	
M204/25x50x35		50	
M204/30x25x38	30	25	38
M204/30x30x38		30	
M204/30x35x38		35	
M204/30x40x38		40	
M204/30x50x38		50	
M204/30x60x38		60	
M204/30x20x40	30	20	40
M204/30x30x40		30	
M204/30x35x40		35	
M204/30x40x40		40	
M204/30x50x40		50	
M204/30x60x40		60	
M204/35x30x44	35	30	44
M204/35x35x44		35	
M204/35x40x44		40	
M204/35x50x44		50	
M204/35x60x44		60	
M204/35x30x45	35	30	45
M204/35x35x45		35	
M204/35x40x45		40	
M204/35x50x45		50	
M204/35x60x45		60	
M204/40x25x50	40	25	50
M204/40x30x50		30	
M204/40x35x50		35	
M204/40x40x50		40	
M204/40x50x50		50	
M204/40x60x50		60	
M204/40x70x50		70	
M204/40x77x50		77	
M204/40x80x50		80	
M204/40x25x55	40	25	55
M204/40x30x55		30	
M204/40x35x55		35	
M204/40x40x55		40	
M204/40x50x55		50	
M204/40x60x55		60	

Sipariş Kodu	d	l	d1
M204/50x30x60	50	30	60
M204/50x35x60		35	
M204/50x40x60		40	
M204/50x50x60		50	
M204/50x60x60		60	
M204/50x70x60		70	
M204/50x80x60		80	
M204/50x95x60		95	
M204/50x30x62	50	30	62
M204/50x35x62		35	
M204/50x40x62		40	
M204/50x50x62		50	
M204/50x60x62		60	
M204/50x70x62		70	
M204/50x30x65	50	30	65
M204/50x35x65		35	
M204/50x40x65		40	
M204/50x50x65		50	
M204/50x60x65		60	
M204/50x70x65		70	
M204/50x80x65		80	
M204/50x95x65		95	
M204/50x100x65		100	
M204/63x30x74	63	30	74
M204/63x35x74		35	
M204/63x40x74		40	
M204/63x50x74		50	
M204/63x60x74		60	
M204/63x70x74		70	
M204/63x80x74		80	
M204/63x30x75	63	30	75
M204/63x35x75		35	
M204/63x40x75		40	
M204/63x50x75		50	
M204/63x60x75		60	
M204/63x70x75		70	
M204/63x80x75		80	
M204/63x100x75		100	

M201 Grafitli Flanşlı Bronz Burç - NAAMS / Oilless Guide Bush

Mat.: SAE 430B Sertlik: HB≥180



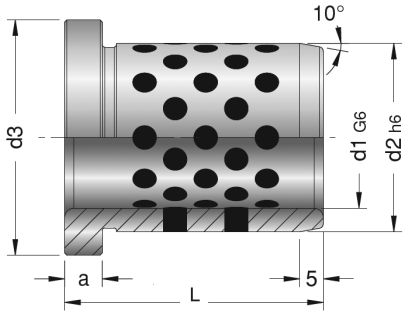


Sipariş Kodu	FORD WDX1360	NAAMS G61	OPEL U2802-99(A)	d1	L	d2	d3	L1	L2
M201/20x40				**20**	40	28	34	30	4
M201/25x40	08025	2540	F33020019	**25**	40	32	40	30	4
M201/30x50				**30**	50	40	50	40	4
M201/32x50	08032	3250	F33020020	**32**	50	40	50	40	4
M201/40x63	08040	4063	F33020021	**40**	63	50	63	50	5
M201/50x71	08050	5071	F33020022	**50**	71	63	71	56	6
M201/63x80	08063	6300	F33020023	**63**	80	80	90	63	8
M201/80x100	08080	8010	F33020024	**80**	100	100	112	80	10
M201/100x125	08100	1012	F33020025	**100**	125	125	140	106	12
M201/125x160	08125	1216	F33020026	**125**	160	160	180	132	12

M202 Grafitli Şapkalı Bronz Burç - CNOMO / Oilless Guide Bush

Mat.: SAE 430B Sertlik: HB≥180

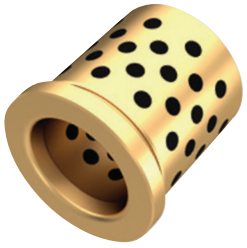


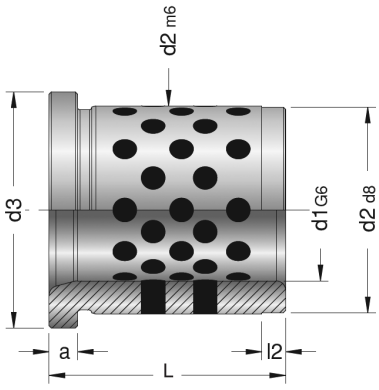


Sipariş Kodu	FORD WDX1370	FORD WSA 003	d1	L	d2	d3	a
M202/20x35	05020	11020	20	35	28	36	8
M202/25x40			25	40	32	40	8
M202/30x55			30	55	40	50	8
M202/32x55	05032		32	55	40	50	8
M202/40x70	05040		40	70	50	60	8
M202/42x70	05042	11042	42	70	50	60	8
M202/50x75	05050		50	75	63	75	12
M202/52x75	05052	11052	52	75	63	75	12
M202/63x80	05063		63	80	80	90	12
M202/80x100	05080		80	100	100	110	12
M202/100x125	05100		100	125	125	135	12

M203 Grafitli Şapkalı Bronz Burç - NAAMS/ Oilless Guide E

Mat.: SAE 430B Sertlik: HB≥180



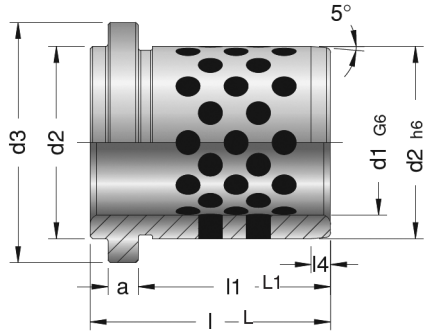


Sipariş Kodu	PSA MABEC CODE	RENAULT MABEC CODE	d1	L	d2	d3	a	L2
M203/25x40			25	40	35	40	5	5
M203/32x50			32	50	44	50	6	5
M203/40x63	X345 274 670	M764 539 401	40	63	52	60	8	8
M203/50x80	X345 281 970	M764 544 501	50	80	63	71	10	8
M203/63x100	X345 287 270	M764 549 501	63	100	80	90	12	10
M203/80x125	X345 292 370	M764 554 601	80	125	100	112	16	10
M203/100x160		X345 298 500	100	160	125	140	20	10

M206 Grafitli Flanşlı Bronz Burç / Oilless Guide Bush

Mat.: SAE 430B Sertlik: HB≥180



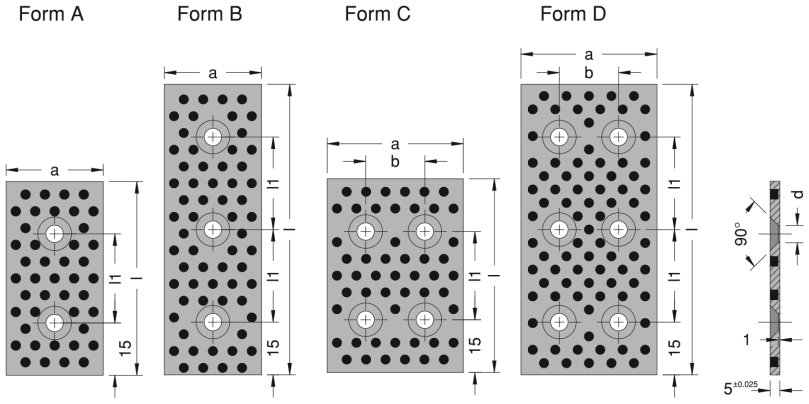


Sipariş Kodu	BMW CODE B2 2933 1	Mabec Code	d1	d2	d3	d6	l1	a	l4	l
M206/25x40	2168699		**25**	32	40	58	30	6.3	3	40
M206/32x50	2168700		**32**	40	50	66	40	6.3	4	50
M206/40x63	2168701		**40**	50	63	79	50	6.3	5	63
M206/50x71	2168702		**50**	63	71	89	56	6.3	6.3	71
M206/63x80	2168703		**63**	80	90	123	63	10	8	80
M206/80x100	2168704		**80**	100	112	143	80	10	10	100
M206/100x125	2168705	Z000499644	**100**	125	140	168	106	10	12.5	125
M206/125x160	2168706	Z000499646	**125**	160	180	203	132	10	16	160
M206/160x200	2168707		**160**	200	220	243	170	10	16	200

M230 Grafitili Bronz Plaka

Mat.: Bronz ve Yağlama Sağlayan Grafit



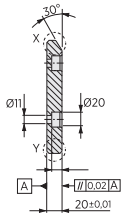


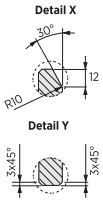
Sipariş Kodu	w	l	l1	b	d	Form	Cıvata
M230/180x050	**18**	50	20	-	6.5	A	2*M6x10
M230/180x075		75	45				
M230/180x100		100	70				
M230/180x150		150	60			B	3*M6x10
M230/28x050	**28**	50	20		9	A	2*M8x10
M230/28x075		75	45				
M230/28x100		100	70				
M230/28x150		150	60			B	3*M8x10
M230/38x050	**38**	50	20			A	2*M8x16
M230/38x075		75	45				
M230/38x100		100	70				
M230/38x150		150	60			B	3*M8x16
M230/48x075	**48**	75	45			A	2*M8x16
M230/48x100		100	70				
M230/48x125		125	95				
M230/48x150		150	60			B	3*M8x16
M230/75x075	**75**	75	45	45		C	4*M8x16
M230/75x100		100	70				
M230/75x125		125	95				
M230/75x150		150	60			D	6*M8x16
M230/100x100	**100**	100	70	70		C	
M230/100x125		125	95				
M230/100x150		150	60			D	6*M8x16

M232 Grafitili Bronz Plaka / Guide Pillar

Mat.: Bronz ve Yağlama Sağlayan Grafit





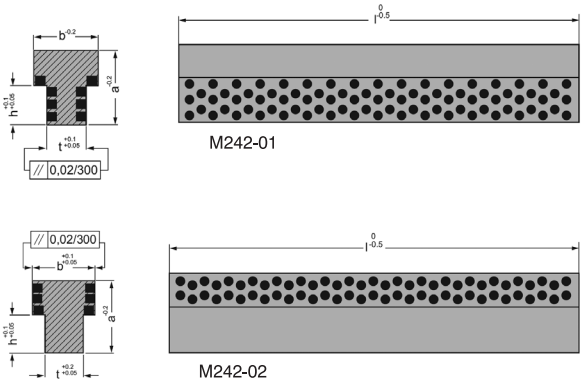


Sipariş Kodu	w	l	b1	b	l1	l2	Form
M232/70x100	**70**	100	20		50		A
M232/70x150		150	10		50		B
M232/70x200		200	20		50		D
M232/100x100	**100**	100	30	20	25	25	F
M232/100x150		150	50		50	25	C
M232/100x200		200	50		50		D
M232/100x250		250	50		50		E
M232/100x300		300	50		50		G
M232/150x100	**150**	100	25	50	50		H
M232/150x150		150	25	50	25	50	I
M232/150x200		200	100		50		D
M232/150x250		250	100		50		E
M232/150x300		300	100		50		G
M232/200x100	**200**	100	50	50	50		H

M242 “ T ” Şekilli Grafitli Bronz Plaka

Mat.: Bronz ve Yağlama Sağlayan Grafit



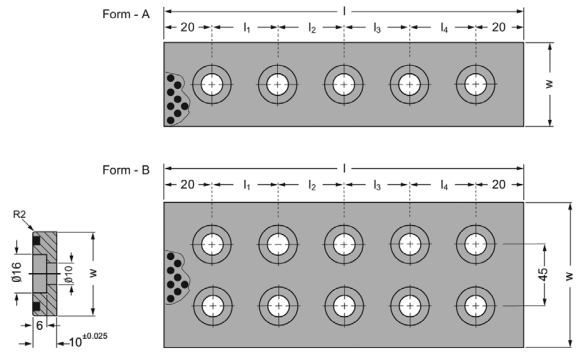


Sipariş Kodu	a	b	t	h	l
M242-01/12x18x350	12	18	8	5	350
M242-01/25x22x350	25	22	12	15	350
M242-01/35x28x350	35	28	18	20	350
M242-02/12x18x350	12	18	8	5	350
M242-02/25x22x350	25	22	12	15	350
M242-02/35x28x350	35	28	18	20	350

M233 Grafitili Bronz Plaka

Mat.: Bronz ve Yağlama Sağlayan Grafit





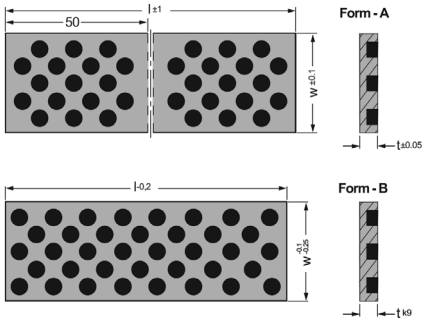
Sipariş Kodu	w	l	l1	l2	l3	l4	Form	Delik Sayısı	Cıvata
M233/035x100	35	100	60	-	-	-	A	2	2xM8
M233/035x150	35	150	55	55	-	-	A	3	3xM8
M233/035x200	35	200	55	50	55	-	A	4	4xM8
M233/035x250	35	250	70	70	70	-	A	4	4xM8
M233/035x300	35	300	65	65	65	65	A	5	5xM8
M233/035x350	35	350	80	75	75	80	A	5	5xM8
M233/050x100	50	100	60	-	-	-	A	2	2xM8
M233/050x150	50	150	55	55	-	-	A	3	3xM8
M233/050x200	50	200	55	50	55	-	A	4	4xM8
M233/050x250	50	250	70	70	70	-	A	4	4xM8
M233/050x300	50	300	65	65	65	65	A	5	5xM8
M233/050x350	50	350	80	75	75	80	A	5	5xM8
M233/050x400	50	400	90	90	90	-	A	5	5xM8
M233/075x150	75	150	110	-	-	90	B	4	4xM8
M233/075x200	75	200	80	80	-	-	B	6	6xM8
M233/075x250	75	250	105	105	-	-	B	6	6xM8
M233/075x300	75	300	85	90	85	-	B	8	8xM8
M233/075x400	75	400	120	120	120	-	B	8	8xM8
M233/075x500	75	500	115	115	115	115	B	10	10xM8

M234

Bronz Grafitili Klavuz Plakalar / Guide Bush

Mat.: Bronz ve Yağlama Sağlayan Grafit



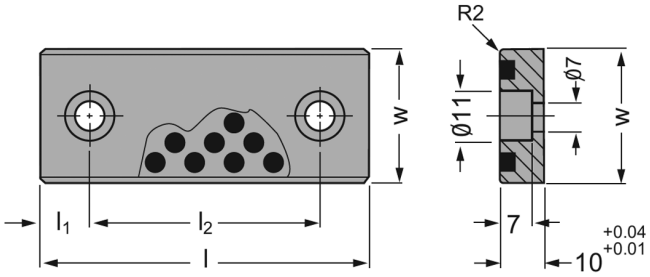


Sipariş Kodu	t	w	l	Form
M234/053020	5.3	20	302	A
M234/103020	10.3	20	302	
M234/053035	5.3	35	303	
M234/103035	10.3	35	302	
M234/053050	5.3	50	302	
M234/103050	10.3	50	303	
M234/025050	5	25	50	B
M234/025071	5	25	71	
M234/025090	5	25	90	
M234/040050	5	40	50	
M234/040071	5	40	71	
M234/040080	5	40	80	
M234/040090	6	40	90	
M234/040100	6	40	100	
M234/040125	6	40	125	
M234/040160	6	40	160	
M234/040200	6	40	200	
M234/063080	6	63	80	
M234/063100	6	63	100	
M234/063125	6	63	125	
M234/063160	6	63	160	

M236 **Grafitili Bronz Plaka** / Guide Pillar

Mat.: Bronz ve Yağlama Sağlayan Grafit





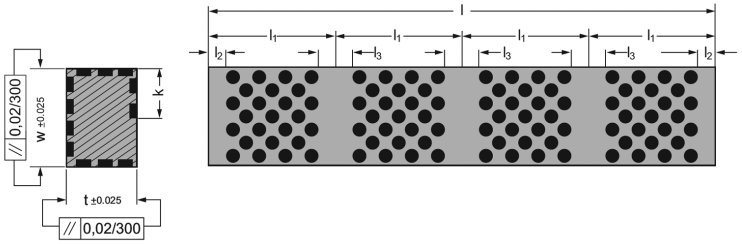
Sipariş Kodu	w	l	l1	l2	Delik Sayısı	Cıvata
M236/18x75	18	75	15	45	2	2xM6
M236/18x100	18	100	25	50	2	2xM6
M236/18x125	18	125	25	75	2	2xM6
M236/18x150	18	150	25	100	2	2xM6
M236/28x75	28	75	15	45	2	2xM6
M236/28x100	28	100	25	50	2	2xM6
M236/28x125	28	125	25	75	2	2xM6
M236/28x150	28	150	25	100	2	2xM6
M236/38x75	38	75	15	45	2	2xM6
M236/38x100	38	100	25	50	2	2xM6
M236/38x125	38	125	25	75	2	2xM6
M236/38x150	38	150	25	100	2	2xM6
M236/48x75	48	75	15	45	2	2xM6
M236/48x100	48	100	25	50	2	2xM6
M236/48x125	48	125	25	75	2	2xM6
M236/48x150	48	150	25	100	2	2xM6

M240

Dört Köşe Grafitili Bronz Plaka/ Guide Pillar

Mat.: Bronz ve Yağlama Sağlayan Grafit





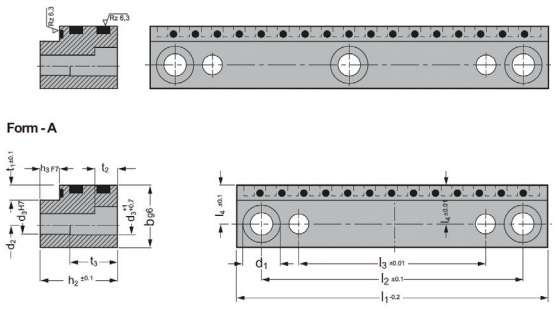
Sipariş Kodu	t	w	k	l	l1	l2	l3
M240/103075	10.3	15.3	6	75	25	3	6
M240/103100	10.3	15.3	6	100	25	3	6
M240/103125	10.3	15.3	6	125	25	3	6
M240/103150	10.3	15.3	6	150	25	3	6
M240/103175	10.3	15.3	6	175	25	3	6
M240/103200	10.3	15.3	6	200	25	3	6
M240/103225	10.3	15.3	6	225	25	3	6
M240/103250	10.3	15.3	6	250	25	3	6
M240/103275	10.3	15.3	6	275	25	3	6
M240/103300	10.3	15.3	6	300	25	3	6
M240/153105	15.3	25.3	8	105	35	4	8
M240/153140	15.3	25.3	8	140	35	4	8
M240/153175	15.3	25.3	8	175	35	4	8
M240/153210	15.3	25.3	8	210	35	4	8
M240/153245	15.3	25.3	8	245	35	4	8
M240/153280	15.3	25.3	8	280	35	4	8
M240/153315	15.3	25.3	8	315	35	4	8
M240/153355	15.3	25.3	8	350	35	4	8
M240/153385	15.3	25.3	8	385	35	4	8

Sipariş Kodu	t	w	k	l	l1	l2	l3
M240/153420	15.3	25.3	8	420	35	4	8
M240/153455	15.3	25.3	8	455	35	4	8
M240/153490	15.3	25.3	8	490	35	4	8
M240/253135	25.3	35.3	12	135	45	5	10
M240/253180	25.3	35.3	12	180	45	5	10
M240/253225	25.3	35.3	12	225	45	5	10
M240/253270	25.3	35.3	12	270	45	5	10
M240/253315	25.3	35.3	12	315	45	5	10
M240/253360	25.3	35.3	12	360	45	5	10
M240/253405	25.3	35.3	12	405	45	5	10
M240/253450	25.3	35.3	12	450	45	5	10
M240/253495	25.3	35.3	12	495	45	5	10
M240/353165	35.3	45.3	16	165	55	6	12
M240/353220	35.3	45.3	16	220	55	6	12
M240/353275	35.3	45.3	16	275	55	6	12
M240/353330	35.3	45.3	16	330	55	6	12
M240/353385	35.3	45.3	16	385	55	6	12
M240/353440	35.3	45.3	16	440	55	6	12
M240/353495	35.3	45.3	16	495	55	6	12

M244 “L” Grafitli Bronz Plaka / Guide Bush

Mat.: Bronz ve Yağlama Sağlayan Grafit



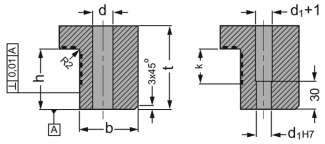


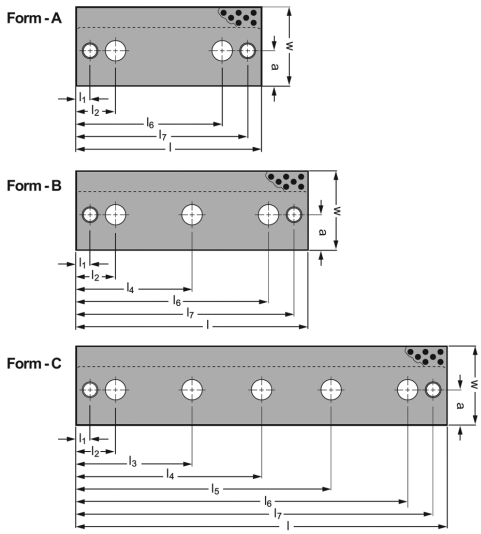
Sipariş Kodu	Form	b	h	l1	l2	l3	l4	d1	d2	d3	t1	t2	t3	h2	h3
M244/16x12x050	A	16	12	50	34	14	9.5	10	5.5	5	5	5.7	-	11	4
M244/16x12x071	A	16	12	71	55	35	9.5	10	5.5	5	5	5.7	-	11	4
M244/16x12x090	B	16	12	90	74	54	9.5	10	5.5	5	5	5.7	-	11	4
M244/20x20x080	A	20	20	80	64	40	12	11	6.6	6	5	6.8	9.5	19	5
M244/20x20x100	A	20	20	100	84	60	12	11	6.6	6	5	6.8	9.5	19	5
M244/20x20x125	B	20	20	125	109	85	12	11	6.6	6	5	6.8	9.5	19	5
M244/25x32x100	A	25	32	100	80	50	15.5	15	9	8	6	9	19	31	6
M244/25x32x125	A	25	32	125	105	75	15.5	15	9	8	6	9	19	31	6
M244/25x32x160	B	25	32	160	140	110	15.5	15	9	8	6	9	19	31	6
M244/30x50x125	A	30	50	125	95	55	18	18	11	10	7	11	34	49	8
M244/30x50x160	A	30	50	160	130	90	18	18	11	10	7	11	34	49	8
M244/30x50x200	B	30	50	200	170	130	18	18	11	10	7	11	34	49	8

M246 "L" Grafitli Bronz Plaka / Guide Bush

Mat.: Bronz ve Yağlama Sağlayan Grafit





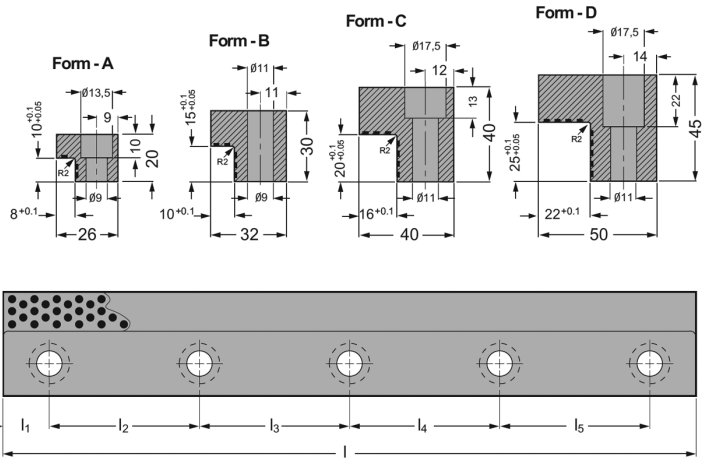


Sipariş Kodu	Form	w	l	t	a	l1	l2	l3	l4	l5	l6	l7	b	h	k	d	d1	Delik Sayısı	Cıvata
M246/5555100	A	55	100	55	20	10	27.5	-	-	-	72.5	90	37	39	23	13.5	10	2	M12x80
M246/5555160	A	55	160	55	20	10	27.5	-	-	-	132.5	150	37	39	23	13.5	10	2	M12x80
M246/7075160	B	70	160	75	30	12.5	35	-	-	-	125	147.5	50	55	35	17.5	12	2	M16x100
M246/7075200	B	70	200	75	30	12.5	35	-	-	-	165	187.5	50	55	35	17.5	12	2	M16x100
M246/7075250	B	70	250	75	30	12.5	35	-	125	-	215	237.5	50	55	35	17.5	12	3	M16x100
M246/7075400	B	70	400	75	30	12.5	35	125	200	275	365	387.5	50	55	35	17.5	12	5	M16x100
M246/8590160	C	85	160	90	38	15	42.5	-	-	-	117.5	145	63	65	45	22	16	2	M20x120
M246/8590200	C	85	200	90	38	15	42.5	-	-	-	157.5	185	63	65	45	22	16	2	M20x120
M246/8590250	C	85	250	90	38	15	42.5	-	125	-	207.5	235	63	65	45	22	16	3	M20x120
M246/8590400	C	85	400	90	38	15	42.5	125	200	275	357.5	385	63	65	45	22	16	5	M20x120

M248 **Bronz Grafitili ''L'' Klavuz Plaka** / Guide Bush

Mat.: Bronz ve Yağlama Sağlayan Grafit

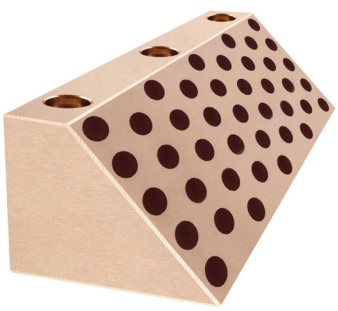


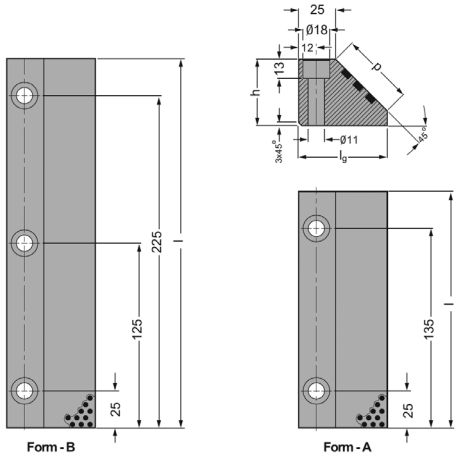


Sipariş Kodu	Form	l	l1	l2	l3	l4	l5	Delik Sayısı
M248/2026100	A	100	20	60	-	-	-	2
M248/2026150	A	150	20	55	55	-	-	3
M248/2026200	A	200	20	55	50	55	-	4
M248/3032100	B	100	20	60	-	-	-	2
M248/3032150	B	150	20	55	55	-	-	3
M248/3032200	B	200	20	55	50	55	-	4
M248/3032250	B	250	20	70	70	70	-	4
M248/4040160	C	160	15	130	-	-	-	2
M248/4040160E	E	160	15	130	-	-	-	2
M248/4040250	C	250	15	130	80	-	-	3
M248/4040250F	F	250	15	130	80	-	-	3
M248/4050200	D	200	20	55	50	55	-	4
M248/4050250	D	250	20	70	70	70	-	4
M248/4050300	D	300	20	65	65	65	65	5
M248/4050350	D	350	20	80	75	75	80	5

M250 Grafitli Bronz Kam Plaka

Mat.: Bronz ve Yağlama Sağlayan Grafit

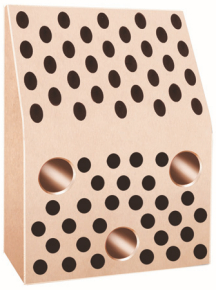


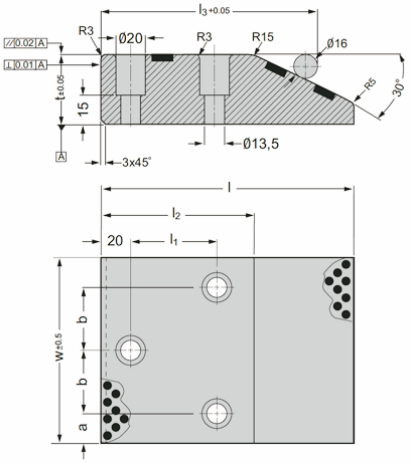


Sipariş Kodu	Form	l	lg	h	p
M250/60x45x160	A	160	60	45	50
M250/60x45x250	B	250	60	45	50
M250/80x60x160	A	160	80	60	80
M250/80x60x250	B	250	80	60	80

M252 Grafitli Bronz Kam Plaka

Mat.: Bronz ve Yağlama Sağlayan Grafit



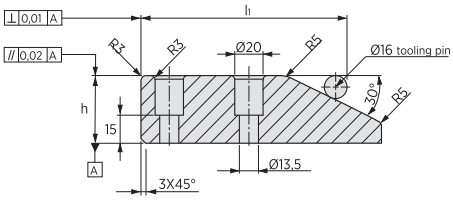


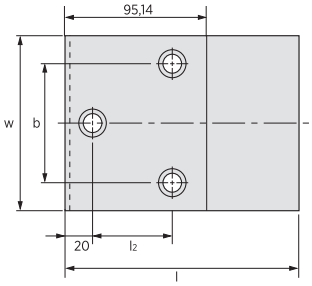
Sipariş Kodu	w	l	t	l1	l2	l3	a	b
M252/100x125x30	100	125	30	50	95.14	133	20	30
M252/100x150x45	100	150	45	45	95.14	133	20	30
M252/100x170x60	100	170	60	45	95.14	133	20	30
M252/125x125x30	125	125	30	50	95.14	133	20	42.5
M252/125x150x45	125	150	45	45	95.14	133	20	42.5
M252/125x170x60	125	170	60	45	95.14	133	20	42.5
M252/160x125x30	160	125	30	50	95.14	133	20	60
M252/160x150x45	160	150	45	45	95.14	133	20	60
M252/160x170x60	160	170	60	45	95.14	133	20	60

M252C **Çelik Kam Plaka** / Cam Dwell Wear Plates Steel

Mat.: 42CrMo4 ≃ 56±60 HRC





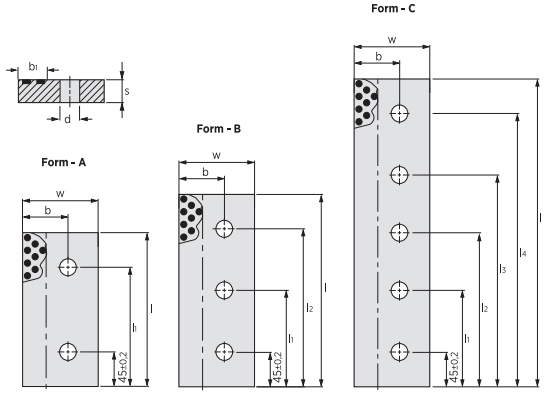


Sipariş Kodu	w	h	l	l1	l2	b
M252C/100x125x30	100	30	125	132,8	50	60
M252C/125x125x30	125	30	125	132,8	50	85
M252C/160x125x30	160	30	125	132,8	50	100
M252C/100x150x45	100	45	150	127,9	45	60
M252C/125x150x45	125	45	150	127,9	45	85
M252C/160x150x45	160	45	150	127,9	45	120
M252C/100x170x60	100	60	170	127,9	45	60
M252C/125x170x60	125	60	170	127,9	45	85
M252C/160x170x60	160	60	170	127,9	45	120

M254 **Grafitli Çelik Plaka** / Gib Plates Steel

Mat.: CK45 ≃ 58±62 HRC



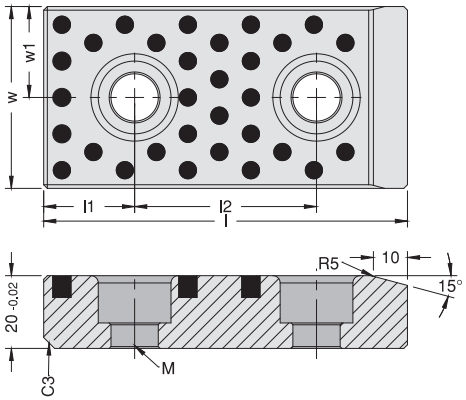


Sipariş Kodu	Form	w	s	l	l1 ±0,2	l2 ±0,2	l3 ±0,2	l4 ±0,2	b	b1	d
M254/075-160	A	75	25	160	115	-	-	-	40	25	17.5
M254/075-200	A	75	25	200	155	-	-	-	40	25	17.5
M254/075-250	B	75	25	250	125	205	-	-	40	25	17.5
M254/100-160	A	100	25	160	115	-	-	-	60	30	17.5
M254/100-200	A	100	25	200	155	-	-	-	60	30	17.5
M254/100-250	B	100	25	250	125	205	-	-	60	30	17.5
M254/100-400	C	100	25	400	125	200	275	355	60	30	17.5
M254/100-1601	A	100	30	160	115	-	-	-	60	30	22
M254/100-2001	A	100	30	200	155	-	-	-	60	30	22
M254/100-2501	B	100	30	250	125	205	-	-	60	30	22
M254/100-4001	C	100	30	400	125	200	275	355	60	30	22
M254/125-160	A	125	30	160	115	-	-	-	75	30	22
M254/125-200	A	125	30	200	155	-	-	-	75	30	22
M254/125-250	B	125	30	250	125	205	-	-	75	30	22
M254/125-400	C	125	30	400	125	200	355	355	75	30	22

M256 **Grafitli Sürtünme Plakası** / Wear Plate Graphite Insert

Mat.: SAE 430B / Grafit HB≥180 ≈ISO 9183-1

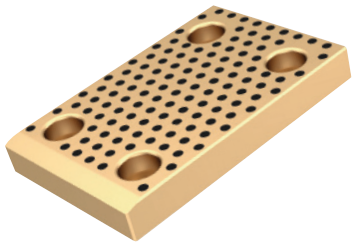


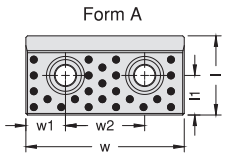


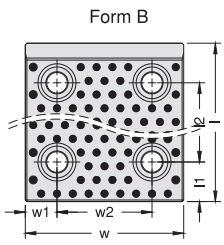
Sipariş Kodu	w1	l1	l2	M	w	l	VW/AUDI 39D863	FORD WDX 1365	OPEL 3425
M256/50x80	25	25	30	M8	50	80	12		
M256/50x100			50	M12		100	13	01050100-Y	F33 04 0000
M256/50x125			75			125	14		F33 04 0001
M256/50x160			110			160	15	01050160-Y	F33 04 0002
M256/50x200			150			200	16	01050200-Y	F33 04 0003
M256/80x80	40	25	30	M12	80	80	22		
M256/80x100			50			100	23	01080100-Y	F33 04 0004
M256/80x125			75			125	24		F33 04 0005
M256/80x160			110			160	25	01080160-Y	F33 04 0006
M256/80x200			150			200	26	01080200-Y	F33 04 0007
M256/80x250		40	170			250		01080250-Y	
M256/80x315			235			315		01080315-Y	
M256/100x100	50	25	50	M12	100	100	33	01100100-Y	F33 04 0010
M256/100x125			75			125	34	01100125-Y	F33 04 0011
M256/100x160			110			160	35	01100160-Y	F33 04 0012
M256/100x200			150			200	36	01100200-Y	F33 04 0013
M256/100x250		40	170			250		01100250-Y	
M256/100x315			235			315		01100315-Y	

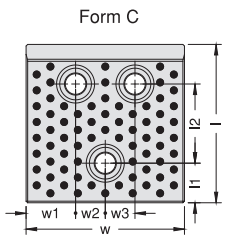
M258 Grafitili Sürtünme Plakası / Wear Plate Graphite Insert

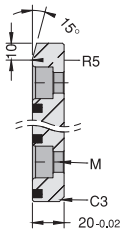
Mat.: SAE 430B / Grafit HB≥180









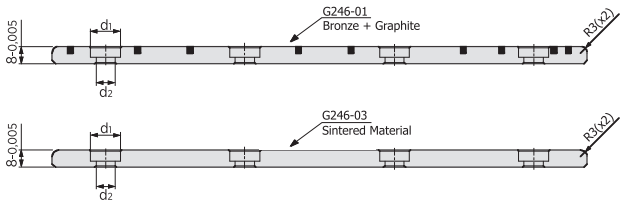


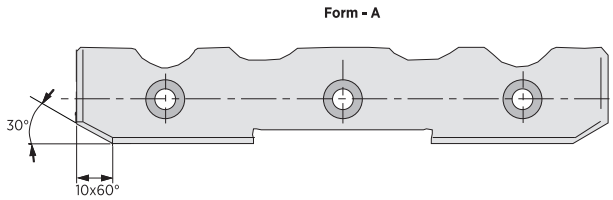
Sipariş Kodu	w1	w2	w3	l1	l2	M	Form	w	l	VW/AUDI 39D863	FORD WDX 1365	OPEL 3425
M258/80x50	25	30		25		M8	A	80	50	21		
M258/100x50	25	50		25		M12	A	100	50	31	01100050-Y	F33 04 0008
M258/100x80				40				100	80	32		F33 04 0009
M258/125x50	25	75		25		M12	A	125	50	41		
M258/125x80				40				125	80	42		F33 04 0014
M258/125x100		37.5	37.5	25	50		C	125	100	43	01125100-Y	F33 04 0015
M258/125x125					75			125	125	44		F33 04 0016
M258/125x160					110			125	160	45	01125160-Y	F33 04 0017
M258/125x200					150			125	200	46	01125200-Y	
M258/125x250				40	170			125	250		01125250-Y	
M258/125x315					235			125	315		01125315-Y	
M258/160x50	25	110		25		M12	A	160	50	51		
M258/160x80				40				160	80	52		
M258/160x100		55	55	25	50		C	160	100	53	01160100-Y	F33 04 0018
M258/160x125					75			160	125	54		F33 04 0019
M258/160x160					110			160	160	55	01160160-Y	F33 04 0020
M258/160x200					150			160	200	56	01160200-Y	
M258/160x250		110		40	170		B	160	250		01160315-Y	
M258/160x315					235			160	315		01120250-Y	
M258/160x250.01		55	55		170		C	160	250		01160315-Y	
M258/160x315.01					235			160	315			

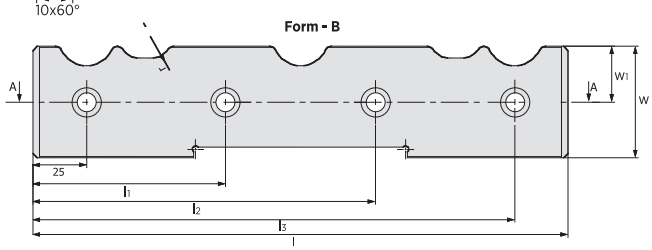
M260 Grafitli Değiştirilebilir Sürtünme Plakası

Mat.: Graphite + Bronze HB ≥190 Hardness





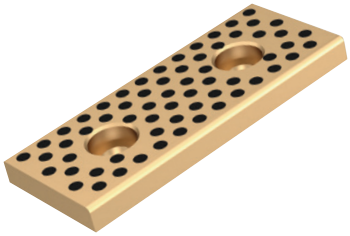


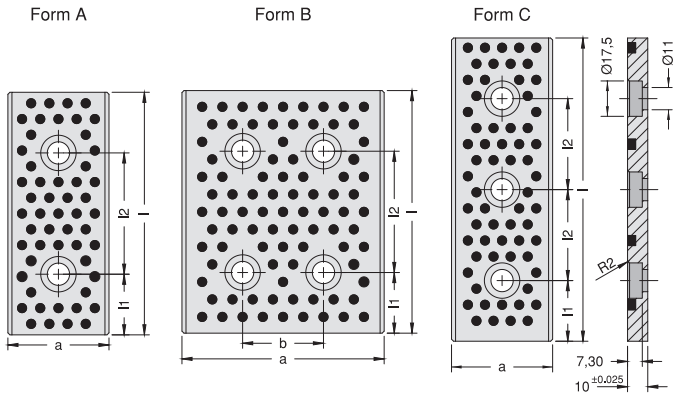


Sipariş Kodu	Form	w ±0,2	l -0,5/-1	l1 -0,3/-0,5	l2 -0,3/-0,5	l3 -0,3/-0,5	w1 ±0,1	d1	d2	r
M260/065-150-02	A	27	150	75	-	125	14	11	6,5	8,5
M260/065-200-02	A	27	200	75	125	175	14	11	6,5	8,5
M260/065-250-02	A	27	250	90	160	225	14	11	6,5	8,5
M260/065-300-02	A	27	300	95	205	275	14	11	6,5	8,5
M260/125-150-02	B	52	150	75	-	125	26	14	9	10
M260/125-200-02	B	52	200	75	125	175	26	14	9	10
M260/125-250-02	B	52	250	90	160	225	26	14	9	10
M260/125-300-02	B	52	300	100	200	275	26	14	9	10

M262 **Grafitli Sürtünme Plakası** / Wear Plate Graphite Insert

Mat.: SAE 430B / Grafit HB≥180



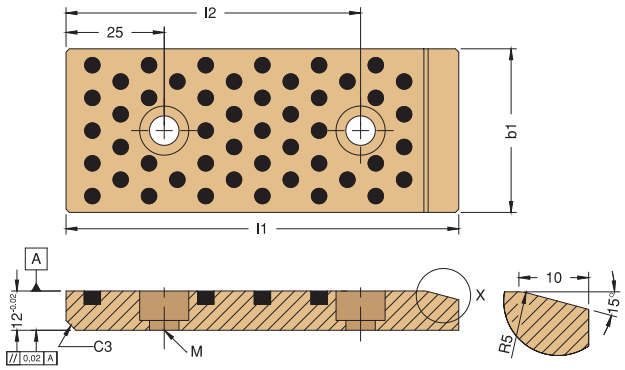


Sipariş Kodu	l1	l2	Form	a	l	b
M262/28x75	15	45	A	28	75	
M262/28x100	25	50		28	100	
M262/28x125		75		28	125	
M262/28x150		100		28	150	
M262/38x75	15	45		38	75	
M262/38x100	25	50		38	100	
M262/38x125		75		38	125	
M262/38x150		100		38	150	
M262/48x75	15	45		48	75	
M262/48x100	25	50		48	100	
M262/48x125		75		48	125	
M262/48x150		100		48	150	
M262/48x200	50			48	200	
M262/58x75	15	45		58	75	
M262/58x100	25	50		58	100	
M262/58x125		75		58	125	
M262/58x150		100		58	150	
M262/58x200	50	100	A	58	200	
M262/75x75	15	45		75	75	
M262/75x100	25	50		75	100	
M262/75x125		75		75	125	
M262/75x150		100		75	150	
M262/75x200		75	C	75	200	
M262/100x100	25	50	B	100	100	50
M262/100x125		75		100	125	
M262/100x150		100		100	150	
M262/100x200		150		100	200	
M262/100x250		200		100	250	
M262/125x150		100		125	150	
M262/125x200		150		125	200	
M262/125x250		200		125	250	
M262/150x150		100		150	150	100
M262/150x200		150		150	200	

M264 **Grafitili Sürtünme Plakası** / Wear Plate Graphite Insert

Mat.: SAE 430B / Grafit HB≥180

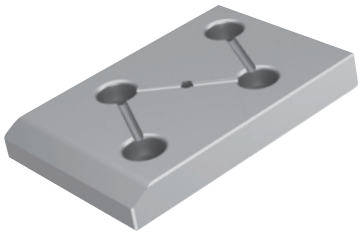




Sipariş Kodu	l2	b1	l1	Civata
M264/30x80	55	30	80	2xM8
M264/30x100	75	30	100	
M264/30x125	100	30	125	
M264/30x160	135	30	160	
M264/30x200	175	30	200	
M264/40x80	55	40	80	
M264/40x100	75	40	100	
M264/40x125	100	40	125	
M264/40x160	135	40	160	
M264/40x200	175	40	200	
M264/50x80	55	50	80	
M264/50x100	75	50	100	
M264/50x125	100	50	125	
M264/50x160	135	50	160	
M264/50x200	175	50	200	
M264/60x80	55	60	80	
M264/60x100	75	60	100	
M264/60x125	100	60	125	
M264/60x160	135	60	160	
M264/60x200	175	60	200	
M264/80x80	55	80	80	
M264/80x100	75	80	100	
M264/80x125	100	80	125	
M264/80x160	135	80	160	
M264/80x200	175	80	200	

M272 **Çelik Sürtünme Plakası** / Sliding Pads

Mat.: Çelik / Steel CNOMO 62±2 HRC



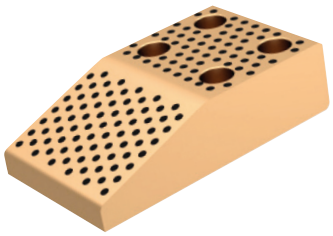
Sipariş Kodu	e1	e2	e4	e5	e6	e7	e9	Form	w	l	PSA Mabec Code	RENAULT Mabec Code
M272/70x100	20		70				10	A	70	100	Z000166213	P446625854
M272/70x150	10	10		120			10	B		150	P446626558	P446626558
M272/70x200	20				170		10	D		200	P446627059	P446627059
M272/100x150	50		45	95	120		25	C	100	150	P446626559	P446626559
M272/100x200			70	120	170		25	D		200	P446627060	P446627060
M272/100x250						220	25	E		250	P446627454	P446627454
M272/150x200	100		70	120	170		50	D	150	200	P446627061	P446627061
M272/150x250	100					220	50	E		250	P446627455	P446627455

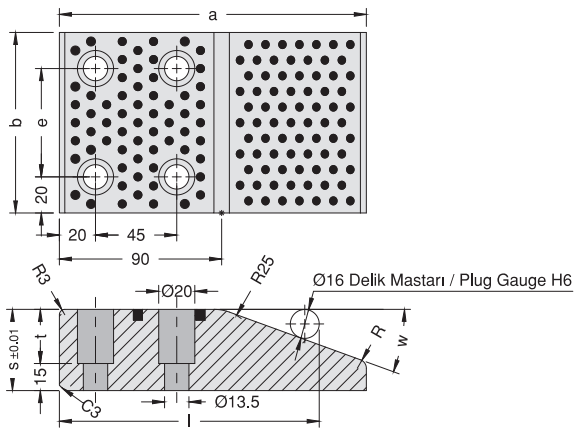
Sipariş Kodu	e1	e2	e3	e4	e5	e6	e7	e8	e9	Form	w	l	PSA Mabec Code	RENAULT Mabec Code
M272/100x100	30	50		45	70				25	L	100	100	P446625855	P446625855
M272/100x300	50			70	120	170	220	270	25	F		300	P446627754	P446627754
M272/150x100	25	75	100	70					50	G	150	100	P446626560	P446626560
M272/150x150				45	95	120			50	H		150	P446626561	P446626561
M272/150x300	100			70	120	170	220	270	50	F		300	P446627755	P446627755
M272/200x100	50	100	150	70					75	G	200	100	Z000166220	P446627062

M274

Açılı Bronz Sürtünme Plakası / Overrun cAM, bronze with Solid Lubricant

Mat.: SAE 430B / Grafit HB≥180



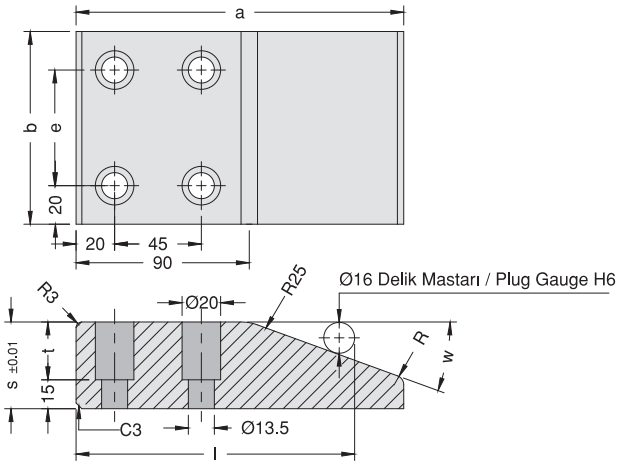


Sipariş Kodu	e	t	w	l	b	a	s
M274/10017045	60	30	20	143,37	100	170	45
M274/12517045	85				125	170	
M274/15017045	110				150	170	
M274/20017045	160				200	170	
M274/10015045	60		30	127,86	100	150	
M274/10017060		45			100	170	60
M274/12515045	85	30			125	150	45
M274/12517060		45			125	170	60
M274/15015045	110	30			150	150	45
M274/15017060		45			150	170	60
M274/20015045	160	30			200	150	45
M274/20017060		45			200	170	60

M274C **Açılı Sürtünme Plakası** / Overrun Cam

Mat.: Çelik / Steel 62±2 HRC

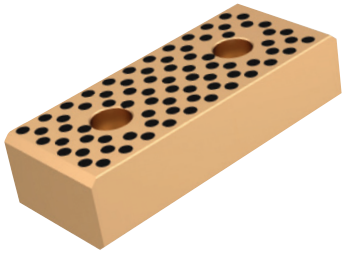


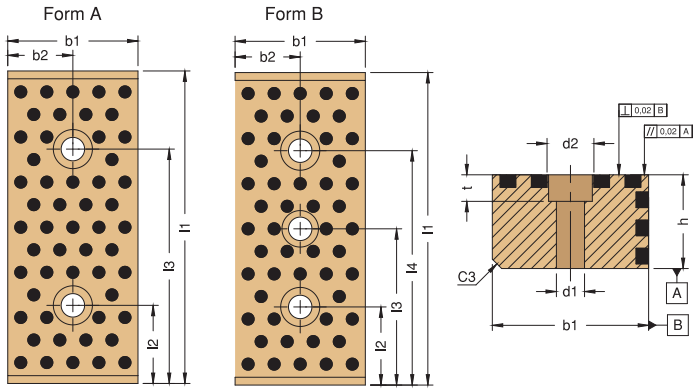


Sipariş Kodu	e	t	w	l	b	a	s
M274C/10017045	60	30	20	143,37	100	170	45
M274C/12517045	85				125	170	
M274C/15017045	110				150	170	
M274C/20017045	160				200	170	
M274C/10015045	60		30	127,86	100	150	
M274C/10017060		45			100	170	60
M274C/12515045	85	30			125	150	45
M274C/12517060		45			125	170	60
M274C/15015045	110	30			150	150	45
M274C/15017060		45			150	170	60
M274C/20015045	160	30			200	150	45
M274C/20017060		45			200	170	60

M276 **Grafitli Sürtünme Plakası** / Wear Plate With Graphite Insert

Mat.: SAE 430B / Grafit HB≥180



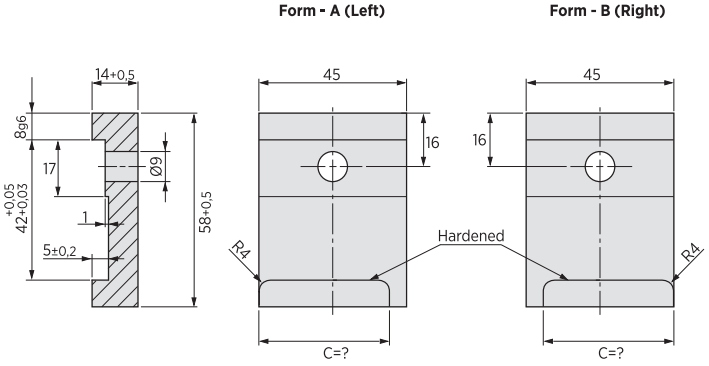


Sipariş Kodu	b2	d1	d2	l2	l3	l4	t	Form	h	b1	l1
M276/1225110	12,5	9	15	25	85	-	8,5	A	12	25	110
M276/1225120					95				12	25	120
M276/1525110		11	18		85		10,5		15	25	110
M276/1525120					95				15	25	120
M276/3060125	30	13,5	20		100		13		30	60	125
M276/3060160					135				30	60	160
M276/3060200					100	175		B	30	60	200
M276/4060125						-		A	40	60	125
M276/4060160					135				40	60	160
M276/4060200					100	175		B	40	60	200

M279 **Geri Dönüş Plakaları** / Positive Return Clamp for V Drivers

Mat.: Steel HRC 30 ±35





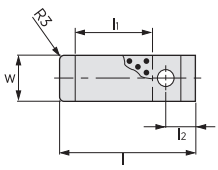
Sipariş Kodu	Form	Lokasyon
M279/045 - C	A + B	Her iki taraf
M279/045L - C	A	Sol
M279/045R - C	B	Sağ

M278 **Kam Hareket Mesafesi Ayar Plakaları** / Cam Pad Guide Wear Plates

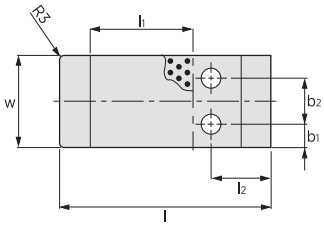
Mat.: Bronze HB≥190



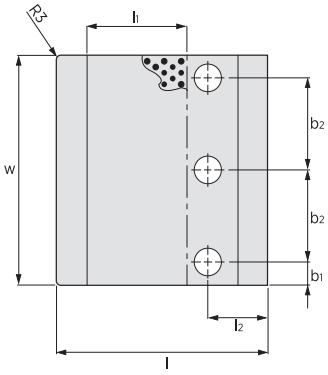
Form - A

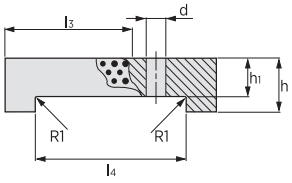


Form - B



Form - C



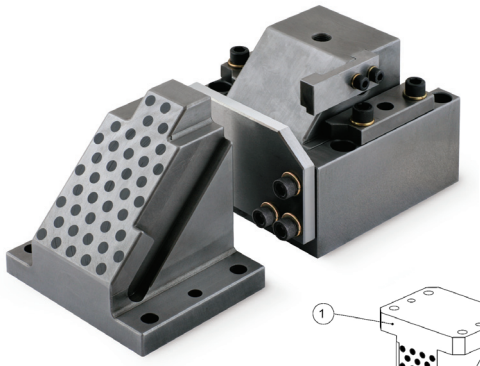


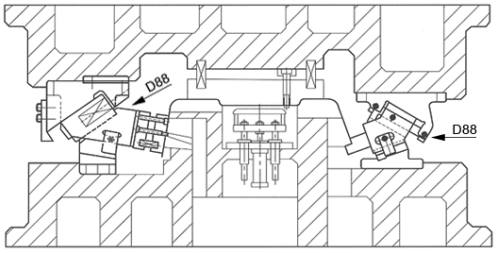
Sipariş Kodu	Form	w h7	h	l	l1	l2	l3	l4	d	h1	b1	b2 ±0,2
M278/030070	A	30	17	70	30	20	40	50	11	12	-	-
M278/030090	A	30	17	90	50	20	60	70	11	12	-	-
M278/045070	B	45	25	70	30	20	40	50	11	15	11,5	22
M278/045090	B	45	25	90	50	20	60	70	11	15	11,5	22
M278/060120	B	60	35	120	40	40	60	80	13	25	15	30
M278/060140	B	60	35	140	60	40	80	100	13	25	15	30
M278/060160	B	60	35	160	80	40	100	120	13	25	15	30
M278/100120	B	100	35	120	40	40	60	80	18	25	15	70
M278/100140	B	100	35	140	60	40	80	100	18	25	15	70
M278/100160	B	100	35	160	80	40	100	120	18	25	15	70
M278/150120	C	150	35	120	40	40	60	80	18	25	15	60
M278/150140	C	150	35	140	60	40	80	100	18	25	15	60
M278/150160	C	150	35	160	80	40	100	120	18	25	15	60
M278/150180	C	150	35	180	100	40	120	140	18	25	15	60

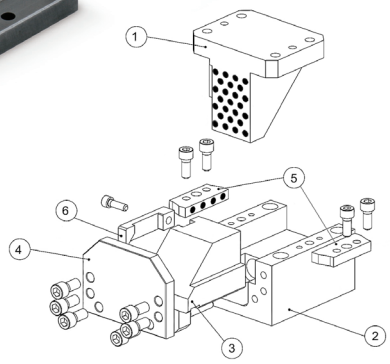
DKAM Kam Üniteleri

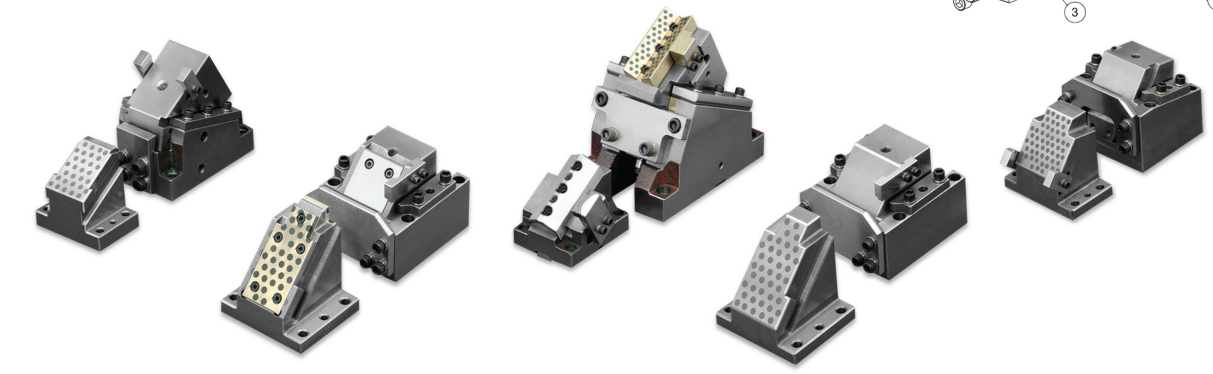
Özel projeleriniz için satis@devpakalip.com adresimiz ile iletişim kurunuz.

1	Üst Gövde	1	SO#50F Grafitli 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 Grafitli Yüzey
6	Yan Klavuz Kol	1	Çelik 55-60 HRC







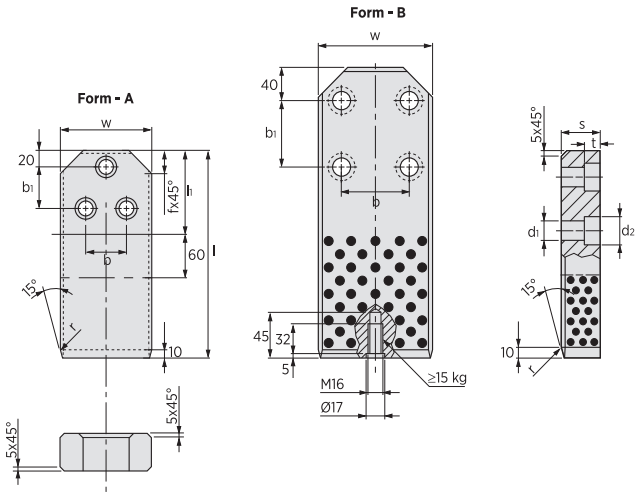


Sipariş Kodu	Yay Ölçüleri Spring Size		İlk Durum Initial		Final		Zımba Alanı B x H (mm)	Maksimum Çalışma Gücü (kN)	Kurs (mm)	Ağırlık (Kg)
	Ø Yay O.D. (mm)	Serbest Boy (mm)	Uzunluk (mm)	Yükleme	Uzunluk (mm)	Yükleme				
DKAM/05225	20	70	62	150	37	600	52x65	10	25	8
DKAM/05240	20	100	92	100	52	610	52x65	10	40	8
DKAM/05260	20	150	137	110	77	620	52x65	10	60	11
DKAM/06540	22	100	92	130	52	770	65x70	18	40	15
DKAM/06560	22	150	137	130	77	770	65x70	18	60	19
DKAM/10040	27	100	92	190	52	1150	100x100	30	40	32
DKAM/10060	27	150	137	210	77	1170	100x100	30	60	33
DKAM/10080	30	200	188	173	108	1325	100x100	30	80	38
DKAM/15040	35	100	92	320	52	1880	150x100	60	40	53
DKAM/15060	35	150	137	340	77	1900	150x100	60	60	57
DKAM/20040	35	100	92	470	52	2820	200x110	80	40	71
DKAM/20060	35	150	137	510	77	2850	200x110	80	60	76
DKAM/25040	40	100	92	620	52	3690	250x130	100	40	97
DKAM/25060	40	150	137	660	77	3720	250x130	100	60	105
DKAM/30040	40	100	92	620	52	3690	300x130	130	40	113
DKAM/30060	40	150	137	660	77	3720	300x130	130	60	120
DKAM/40060	60	150	148	156	88	4760	400x150	140	60	202
DKAM/50060	60	150	148	310	88	9520	500x150	140	60	236
DKAM/60060	60	150	148	310	88	9520	600x150	140	60	269

M280 **Grafitli Çelik Kılavuz Plakaları** / Removable Die Steel and Self-lubricating

Mat.: CK45 + Graphite HRC 58 ±60



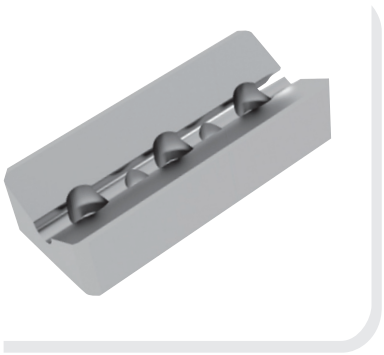


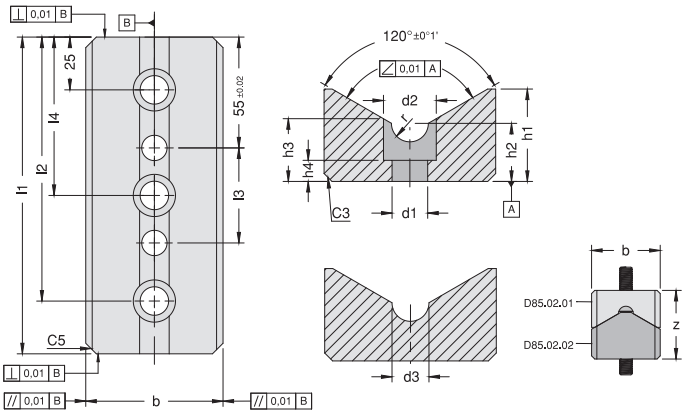
Sipariş Kodu	Form	w	s	l	l1	b	b1	d1	d2	f	r	t
M280/06318036	A	63	36	180	90	36	50	14	20	18	16	16
M280/06320036	A	63	36	200	90	36	50	14	20	18	16	16
M280/06322436	A	63	36	224	90	36	50	14	20	18	16	16
M280/07118036	A	71	36	180	90	36	50	14	20	18	16	16
M280/07120036	A	71	36	200	90	36	50	14	20	18	16	16
M280/07122436	A	71	36	224	90	36	50	14	20	18	16	16
M280/09020036	A	90	36	200	100	36	50	14	26	28	25	21
M280/09022436	A	90	36	224	100	50	50	18	26	28	25	21
M280/09025036	A	90	36	250	100	50	50	18	26	28	25	21
M280/09020045	A	90	45	200	100	50	50	18	26	28	25	21
M280/09022445	A	90	45	224	100	50	50	18	26	28	25	21
M280/09025045	A	90	45	250	100	50	50	18	26	28	25	21
M280/11220045	A	112	45	200	100	50	50	18	26	28	25	21
M280/11222445	A	112	45	224	100	50	50	18	26	28	25	21
M280/11225045	A	112	45	250	100	50	50	18	26	28	25	21
M280/14031545	B	140	45	315	150	90	80	22	33	36	31,5	25,5
M280/14040045	B	140	45	400	150	90	80	22	33	36	31,5	25,5
M280/14031556	B	140	56	315	150	90	80	22	33	36	31,5	25,5
M280/14040056	B	140	56	400	150	90	80	22	33	36	31,5	25,5
M280/19031545	B	190	45	315	150	90	80	22	33	36	31,5	25,5
M280/19010045	B	190	45	400	150	90	80	22	33	36	31,5	25,5
M280/19031556	B	190	56	315	150	90	80	22	33	36	31,5	25,5
M280/19040056	B	190	56	400	150	90	80	22	33	36	31,5	25,5
M280/24050056	B	240	56	500	250	160	160	26	40	36	31,5	30,5
M280/24063056	B	240	56	630	250	160	160	26	40	36	31,5	30,5

M282C

“V” Çelik Blok / V Driver Steel

Mat.: CK45 HRC 58 ±60



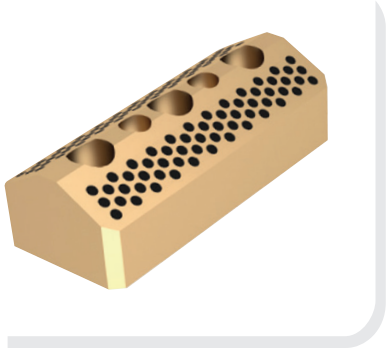


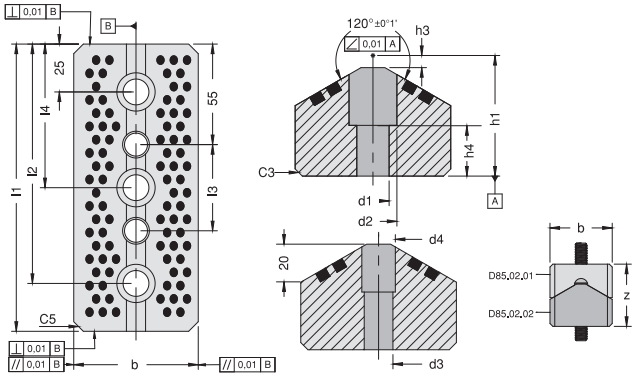
Sipariş Kodu	b	l1	d1	d2	d3	h1	h2	h3	h4	l2	l3	l4	r	z
M282C/65150	65	150	13,5	20	12	35	18	22	8	125	45	-	7	65
M282C/65200	65	200								175	95			
M282C/65250	65	250								225	145	125		
M282C/65300	65	300								275	195	150		
M282C/125150	125	150	17,5	26	16	60	28	34	15	125	45	-	10	85
M282C/125200	125	200								175	95			
M282C/125250	125	250								225	145	125		
M282C/125300	125	300								275	195	150		

M282B

Grafitli Bronz “V” Blok / “V” Driver Self-lubricating

Mat.: SAE 430B / Grafit HB≥180

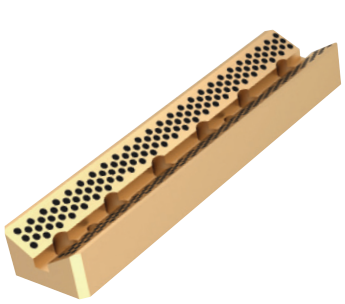


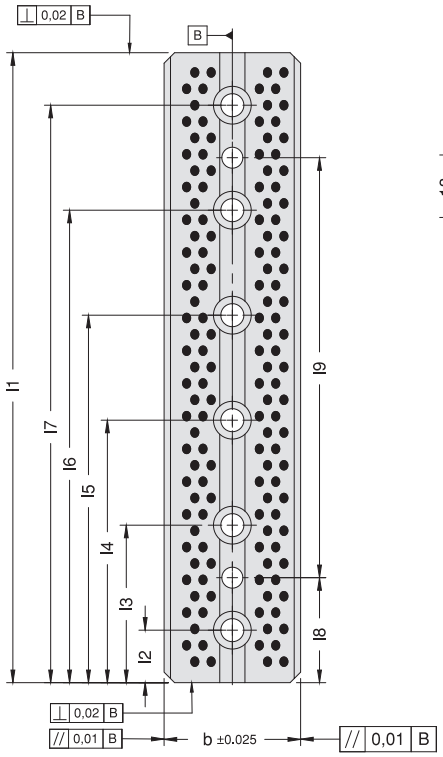


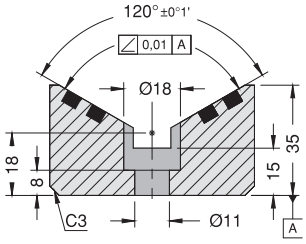
Sipariş Kodu	b	l1	d1	d2	d3	h1	h2	h3	h4	l2	l3	l4	r	z
M282B/65150	65	150	13,5	20	12	35	18	22	8	125	45	-	7	65
M282B/65200	65	200								175	95			
M282B/65250	65	250								225	145	125		
M282B/65300	65	300								275	195	150		
M282B/125150	125	150	17,5	26	16	60	28	34	15	125	45	-	10	85
M282B/125200	125	200								175	95			
M282B/125250	125	250								225	145	125		
M282B/125300	125	300								275	195	150		

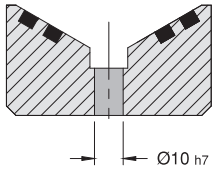
M284B **Bronz Grafitli "V" Blok** / "V" Driver, self-lubricating

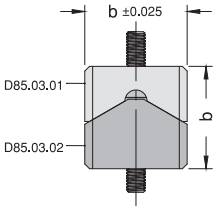
Mat.: SAE 430B / Grafit HB ≥ 180









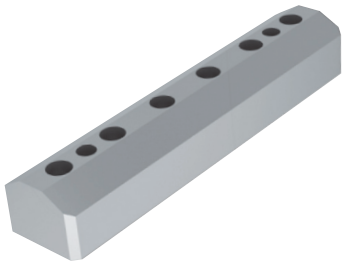


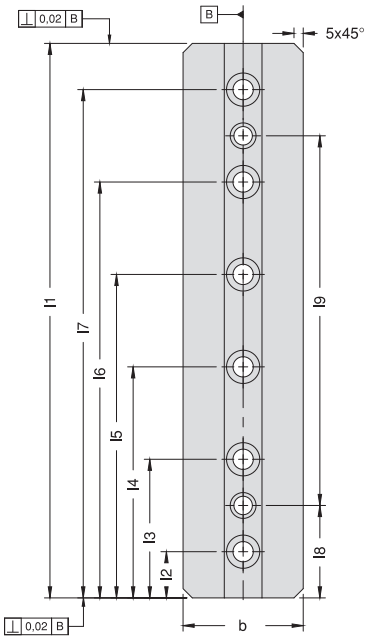
Sipariş Kodu	l1	l2	l3	l4	l5	l6	l7	l8	l9	b
M284B/3565100	100	20	80	-	-	-	-	40	20	65
M284B/3565150	150	25	75	125				50	50	
M284B/3565200	200				175				100	
M284B/3565250	250					225			150	
M284B/3565300	300						275		200	

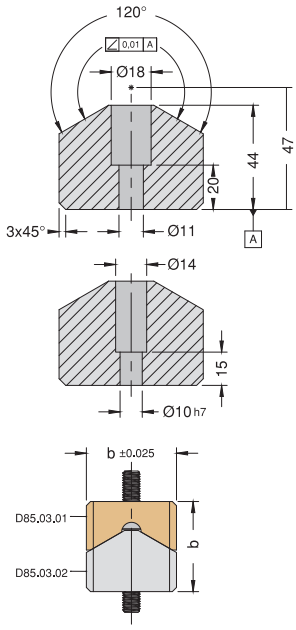
M284C

“V” Çelik Blok / V Driver Steel

Mat.: CK45 HRC 58 ±60







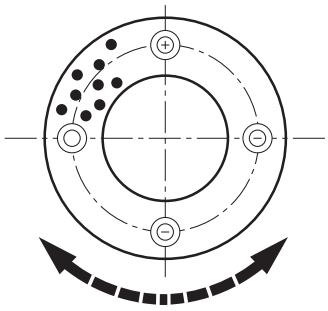
Sipariş Kodu	l1	l2	l3	l4	l5	l6	l7	l8	l9	b
M284C/3565100	100	20	80	-	-	-	-	40	20	65
M284C/3565150	150	25	75	125				50	50	
M284C/3565200	200				175				100	
M284C/3565250	250					225			150	
M284C/3565300	300						275		200	

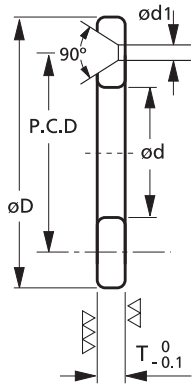
M286 **Grafitli Yuvarlak Flanş**

Mat.: CK45 HRC 58 ±60

Malzeme / Material : Bronz ve yağlama sağayan grafit







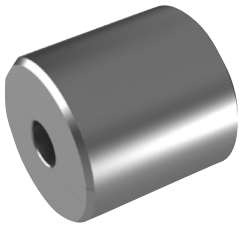
Sipariş Kodu	Ød	ØD	T 0 -0.1	Gömme Cıvata			
				P.C.D	Adet	VidaØ	Ød1
M286/10	10.2	30	3	-	-	-	-
M286/12	12.2	40	3	-	-	-	-
M286/13	13.2	40	3	28	2	M3	3.5
M286/16	16.2	50	3	35	2	-	-
M286/18	18.2	50	3	35	2	M3	3.5
M286/20	20.2	50	5	35	2	M5	6
M286/25	25.2	55	5	40	2	M5	6
M286/30	30.2	60	5	45	2	M5	6
M286/35	35.2	70	5	50	2	M5	6
M286/40	40.2	80	7	60	2	M6	7
M286/45	45.3	90	7	67.5	2	M6	7
M286/50	50.3	100	8	75	4	M6	7
M286/55	55.3	110	8	85	4	M6	7
M286/60	60.3	120	8	90	4	M8	9
M286/65	65.3	125	8	95	4	M8	9
M286/70	70.3	130	10	100	4	M8	9
M286/80	80.3	150	10	120	4	M8	9
M286/90	90.5	170	10	140	4	M10	11
M286/100	100.5	190	10	160	4	M10	11
M286/120	120.5	200	10	175	4	M10	11

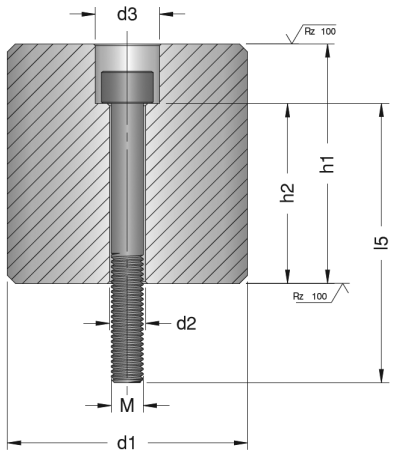
Pres - Sac Kalıp Mekanik Ürünler



M170 **Stoplama Bloğu** / Stop Block

Mat.: Cf53



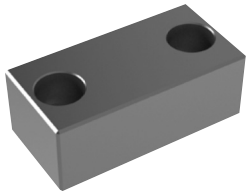


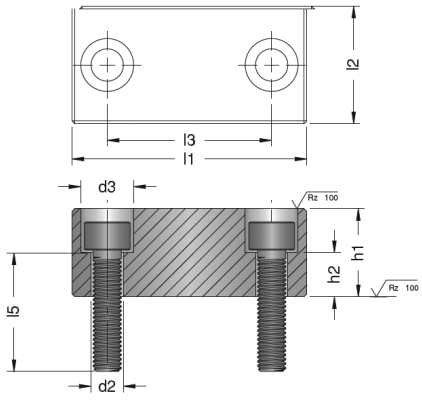
Sipariş Kodu	d2	d3	Taşıma Yükü / Max. Load	Ad./Unit	d1	h1	VW/AUDI Code
M170/060xxx	14	20	< 1800 kN	4	60	1)	39V1162/14
M170/080xxx			≥1800 - 3400 kN		80		39V1162/15
M170/100xxx	18	26	>3400 - 5300 kN		100		39V1162/25
M170/120xxx	22	33	>5300 - 10000 kN		120		39V1162/17
M170/150xxx			>10000 - 25000 kN	8	150		39V1162/18

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	140	102	120	96	120	90	120
> 140	160	122	140	116	140	110	140

M172 **Stoplama Bloğu** / Stop Block

Mat.: Çelik / Steel





Sipariş Kodu	l3	d2	d3	h1	l1	l2	VW/AUDI Code
M172/060xxx	40	9	15	1)	60	40	39V1162/1
M172/080xxx	56	11	18		80		39V1162/2
M172/100xxx	71	14	20		100		39V1162/3
M172/100xxx	76					50	39V1162/4
M172/120xxx	93				120	60	39V1162/5
M172/150xxx	120	18	26		150	80	39V1162/20
M172/160xxx	130				160	100	39V1162/21

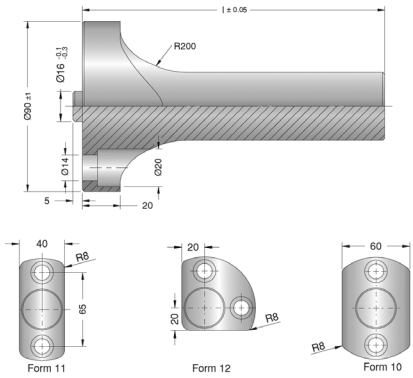
Sipariş Kodu	Taşıma Yükü / Max. Load	Adet/Unit
M172/100xxx	≥3500 kN	4
M172/120xxx	≥3500 - 4900 kN	
M172/150xxx	≥4900 - 9800 kN	
M172/150xxx	≥9800 - 19600 kN	8
M172/160xxx	≥19600 - 25000 kN	

DIN EN ISO 4762		M8		M10		M12		M16	
h1	1)	h2	l5	h2	l5	h2	l5	h2	l5
≥ 020	040	10	25	8	25	-	-	-	-
> 040	060	28	40	25	40	22	40	18	40
> 060	080	48	60	45	60	42	60	38	60
> 080	100	68	80	65	80	62	80	58	80
> 100	120			85	100	82	100	78	100
> 120	140			105	120	102	120	98	120
> 140	160					122	140	118	140

M174 **Havalandırma Pimi** / Air Pin

Mat.: Cf53



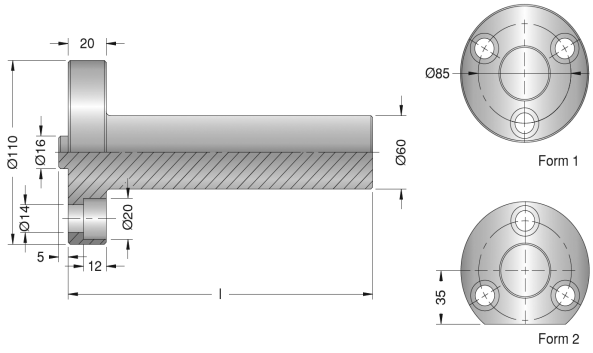


Sipariş Kodu	Form	l	VW/AUDI Code
M174/36150	10	150	39D638/10
M174/36175	10	175	39D638/10
M174/36200	10	200	39D638/10
M174/36225	10	225	39D638/10
M174/36250	10	250	39D638/10
M174/36150	11	150	39D638/11
M174/36175	11	175	39D638/11
M174/36200	11	200	39D638/11
M174/36225	11	225	39D638/11
M174/36250	11	250	39D638/11
M174/36150	12	150	39D638/12
M174/36175	12	175	39D638/12
M174/36200	12	200	39D638/12
M174/36225	12	225	39D638/12
M174/36250	12	250	39D638/12

M175 **Havalandırma Pimi** / Air Pin

Mat.: Cf53



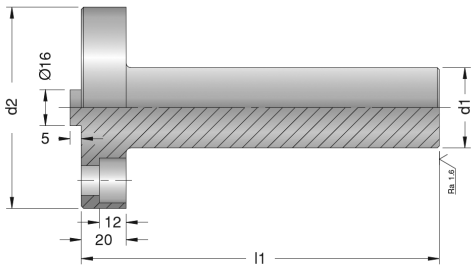


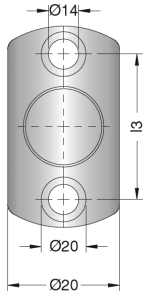
Sipariş Kodu	Form	l	VW/AUDI Code
M175/60150	1	150	39D951/1
M175/60175	1	175	39D951/1
M175/60200	1	200	39D951/1
M175/60225	1	225	39D951/1
M175/60250	1	250	39D951/1
M175/60150	2	150	39D951/2
M175/60175	2	175	39D951/2
M175/60200	2	200	39D951/2
M175/60225	2	225	39D951/2
M175/60250	2	250	39D951/2

M176 **Havalandırma Pimi** / Air Pin

Mat.: Cf53





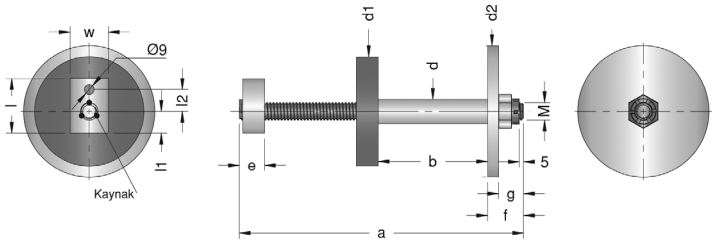


Sipariş Kodu	d2	l2	l3	d1	l1	FORD Code
M176/36110	90	40	65	36	110	
M176/36150					150	
M176/36160					160	
M176/36175					175	WDX17-70-0736175
M176/36200					200	
M176/36225					225	
M176/36250					250	WDX17-70-0736250
M176/36275					275	
M176/36300					300	
M176/36325					325	
M176/36340					340	
M176/36360					360	WDX17-70-0736360
M176/45175	100	50	75	45	175	WDX17-70-0745175
M176/45250					250	WDX17-70-0745250
M176/45360					360	WDX17-70-0745360

M178 **Frenleyici** / Retainer Bolt

Mat.: Cf53 + 92 Shore Poliüretan





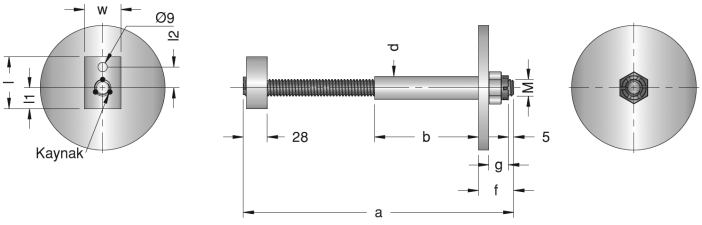
Sipariş Kodu	l	l1	l2	d1	d2	M	a	b
M178/16AABBB	50	20	20	50	65	M16	x	x
M178/20AABBB	50	20	20	63	82	M20	x	x
M178/24AABBB	50	20	20	80	105	M24	x	x
M178/30AABBB	63	26	26	100	130	M30	x	x

FORD Code	kg	f	g	d	e	w
WDX14-60-0516	250	30	19	22	28	35
WDX14-60-0520	450	35	22	25	28	40
WDX14-60-0524	750	42	27	30	28	45
WDX14-60-0530	1.250	50	33	38	33	50

M179 **Frenleyici** / Retainer Bolt

Mat.: Cf53



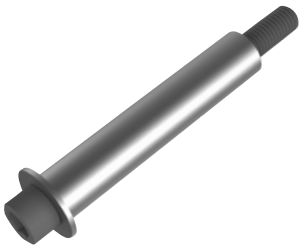


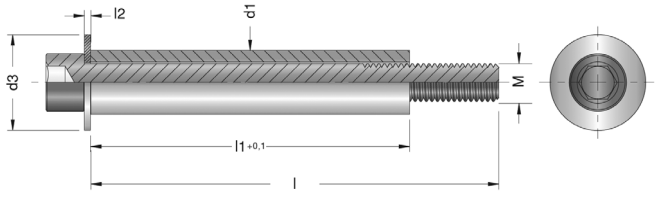
Sipariş Kodu	l	l1	l2	d2	M	a	b
M179/16AAABBB	50	20	20	40	M16	x	x
M179/20AAABBB	50	20	20	44	M20	x	x

FORD Code	kg	f	g	d	w
WDX14-60-0616	1.000	30	19	22	35
WDX14-60-0620	1.400	35	22	25	40

M180 Tespit Civatası

Mat.: Cf53



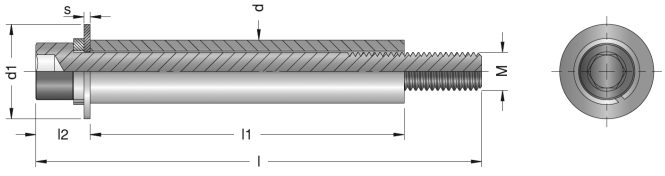


Sipariş Kodu	d3	l2	M	l	d1	l1
M180/016040	25	5	10	60	16	40
M180/016050	25	5	10	70	16	50
M180/016063	25	5	10	90	16	63
M180/016100	25	5	10	120	16	100
M180/020050	30	5	12	80	20	50
M180/020063	30	5	12	90	20	63
M180/020080	30	5	12	110	20	80
M180/020100	30	5	12	130	20	100
M180/025063	38	6	16	100	25	63
M180/025080	38	6	16	110	25	80
M180/025100	38	6	16	130	25	100
M180/025125	38	6	16	160	25	125
M180/030080	45	8	20	120	30	80
M180/030125	45	8	20	180	30	125
M180/036080	55	10	24	130	36	80
M180/036100	55	10	24	150	36	100
M180/036125	55	10	24	180	36	125
M180/042080	65	15	30	140	42	80
M180/042100	65	15	30	160	42	100
M180/042125	65	15	30	200	42	125

M181 **Emniyet Civata Rondela Seti** / Retainer Bolt

Mat.: Çelik / Steel

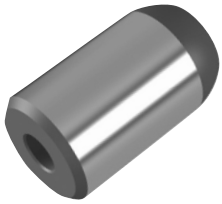


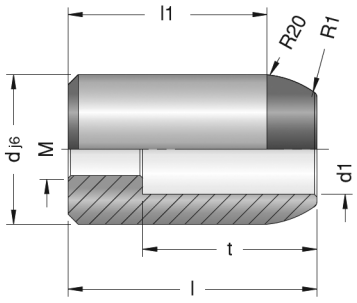


Sipariş Kodu	l	l1	l2	d	d1	s	M	kg(Max. Load)
M181/AAABBB	AAA	BBB	6,5	16x2,5	25	4	M10	100
M181/AAABBB	AAA	BBB	8,5	20x3,5	30	6	M12	150
M181/AAABBB	AAA	BBB	9,5	28x5,5	40	6	M16	250

M151 **Merkezleme Pimi** / Locating Pin

Mat.: Çelik / Steel 16MnCr5 58-62 HRC

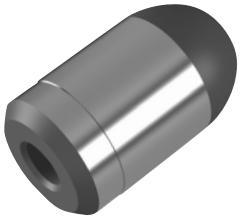


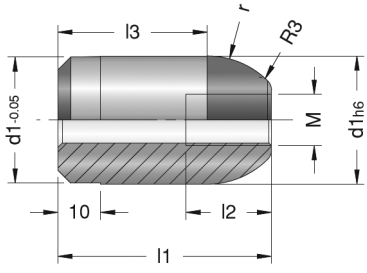


Sipariş Kodu	l1	d1	t	M	d	l
M151/2245	37.5	14	25	M10	22	45
M151/3250	40	18	35	M12	32	50
M151/4055	40	18	35	M12	40	55
M151/5055	40	18	35	M12	50	55

M152 **Merkezleme Pimi** / Locating Pin

Mat.: Çelik / Steel 16MnCr5 58-62 HRC

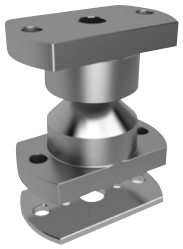


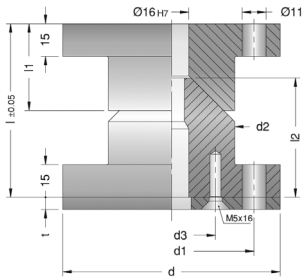


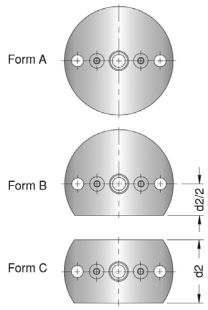
Sipariş Kodu	l2	l3	M	r	d1	l1	VW/AUDI Code
M152/2245	16	35	M8	15	22	45	39V1205/1
M152/2255	16	45	M8	15	22	55	39V1205/2
M152/3250	20	35	M10	20	32	50	
M152/4055	20	35	M10	25	40	55	39V1205/3
M152/4065	20	45	M10	25	40	65	39V1205/4
M152/4085	20	65	M10	25	40	85	39V1205/5
M152/5055	20	35	M10	25	50	55	

M153 Konik Merkezleme Üniteleri / Locating Cone

Mat.: Çelik / Steel 16MnCr5 60-64 HRC



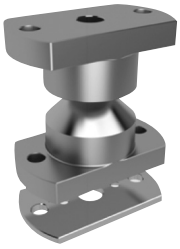


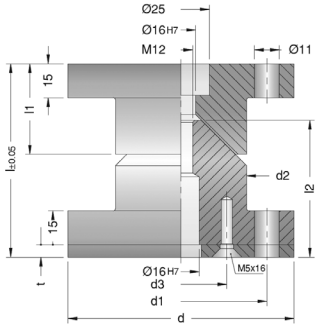


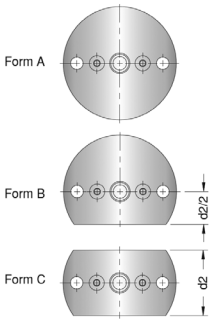
Sipariş Kodu	l	d1	d2	d3	l1	l2	Form	d	t	VW/AUDI Code
M153/100005	80	76	58	40.5	40	55	A	100	5.5	
M153/120005	90	96	78	50.5	50	65	A	120	5.5	
M153/100105	80	76	58	40.5	40	55	B	100	5.5	
M153/120105	90	96	78	50.5	50	65	B	120	5.5	
M153/100205	80	76	58	40.5	40	55	C	100	5.5	
M153/120205	90	96	78	50.5	50	65	C	120	5.5	
M153/100010	80	76	58	40.5	40	55	A	100	10	39V1168/10
M153/120010	90	96	78	50.5	50	65	A	120	10	39V1168/12
M153/100110	80	76	58	40.5	40	55	B	100	10	39V1168/14
M153/120110	90	96	78	50.5	50	65	B	120	10	39V1168/16
M153/100210	80	76	58	40.5	40	55	C	100	10	39V1168/18
M153/120210	90	96	78	50.5	50	65	C	120	10	39V1168/20

M154 Konik Merkezleme Üniteleri / Locating Cone

Mat.: Çelik / Steel 16MnCr5 60-64 HRC





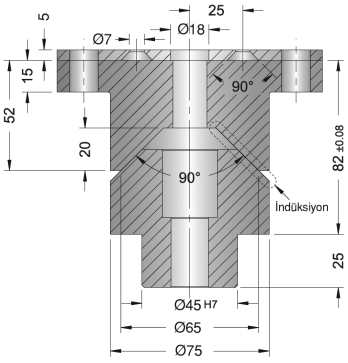


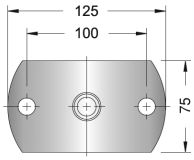
Sipariş Kodu	l	d1	d2	d3	l1	l2	Form	d	t
M154/100005	80	76	58	40.5	40	55	A	100	5.5
M154/120005	90	96	78	50.5	50	65	A	120	5.5
M154/100105	80	76	58	40.5	40	55	B	100	5.5
M154/120105	90	96	78	50.5	50	65	B	120	5.5
M154/100205	80	76	58	40.5	40	55	C	100	5.5
M154/120205	90	96	78	50.5	50	65	C	120	5.5
M154/100010	80	76	58	40.5	40	55	A	100	10
M154/120010	90	96	78	50.5	50	65	A	120	10
M154/100110	80	76	58	40.5	40	55	B	100	10
M154/120110	90	96	78	50.5	50	65	B	120	10
M154/100210	80	76	58	40.5	40	55	C	100	10
M154/120210	90	96	78	50.5	50	65	C	120	10

M155 **Konik Merkezleme Üniteleri**/ Locating Cone

Mat.: Çelik / Steel 51-58 HRC



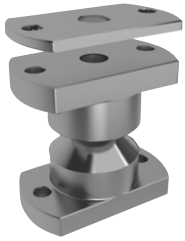


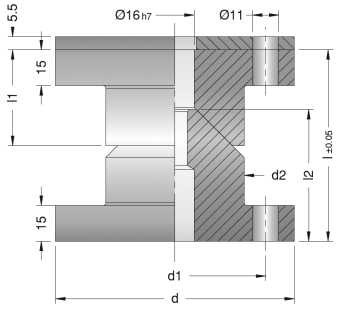


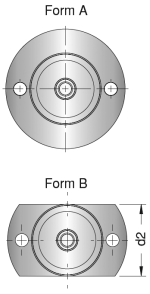
Sipariş Kodu	FORD Code
M155/ 14620175	WDX14-62-0175

M156 **Konik Merkezleme Üniteleri** / Locating Cone

Mat.: CK45 16MnCr5 60-64 HRC



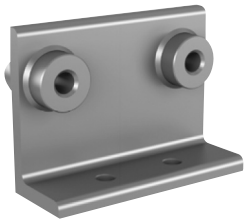




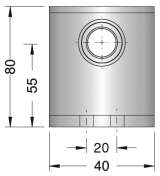
Sipariş Kodu	l	d1	d2	l1	l2	Form	d
M156/100005	80	76	58	40	55	A	100
M156/120005	90	96	78	50	65	A	120
M156/100205	80	76	58	40	55	B	100
M156/120205	90	96	78	50	65	B	120

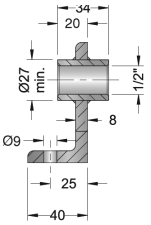
M158 Hava Birleştirme Braketleri / Air Couping Bracket

Mat.: Çelik / Steel

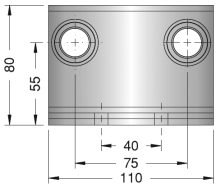


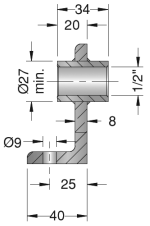
Form A





Form B

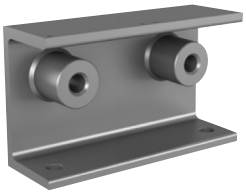




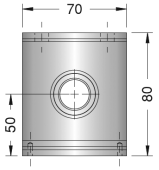
Sipariş Kodu	Form
M158/080040	A
M158/080110	B

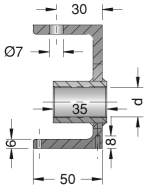
M159 Hava Birleştirme Braketleri / Air Couping Bracket

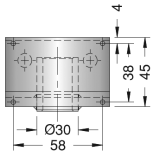
Mat.: Çelik / Steel



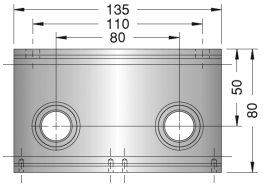
Form A

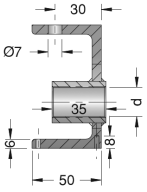


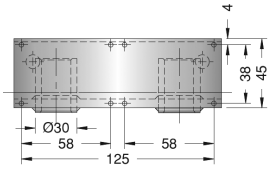




Form B





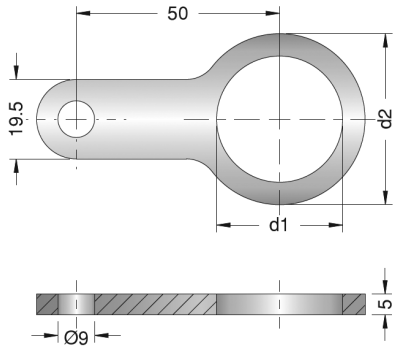


Sipariş Kodu	d	Form
M159/080040	G3/8''	A
M159/080110	G1/4''	B

M2101 **Sensör Plakası** / Plate for Sensor

Mat. : S235 (JR62K)



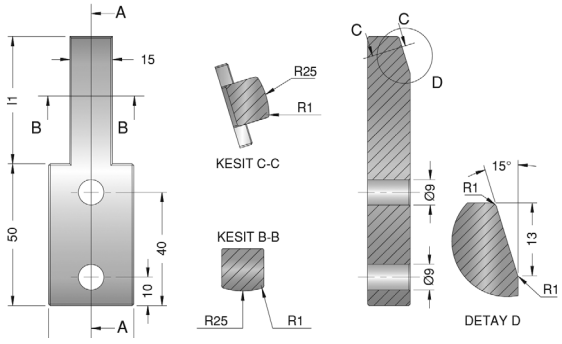


Sipariş Kodu	d1	d2	VW Code
M2101/1930	19	30	39D993/1
M2101/3142	31	42	39D993/2

M2102 **Yönlendirici** / Router

Mat. : 1.7131 (16MnCr5) 58 + 4 HRC

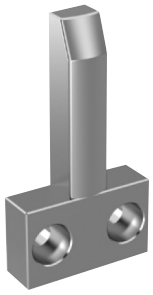


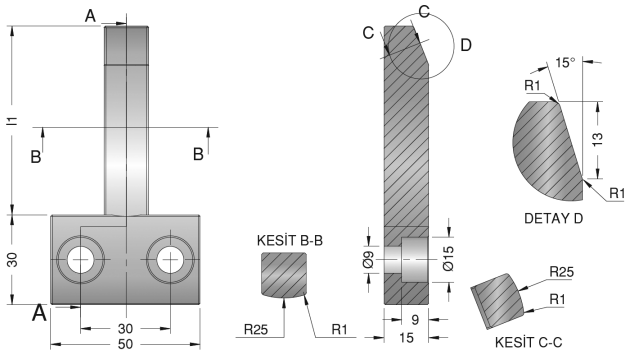


Sipariş Kodu	l1	VW Code
M2102/30XXX	X	1D302629/1

M2103 Yönlendirici / Router

Mat. : 1.7131 (16MnCr5) 58 + 4 HRC

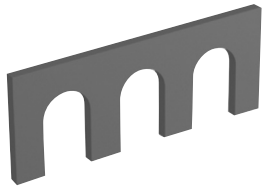


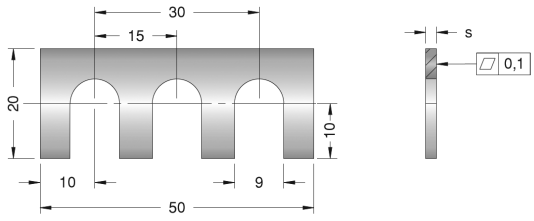


Sipariş Kodu	l1	VW Code
M2103/50XXX	X	1D302629/2

M2104 Sac Dayama

Mat. : 1.7131 (16MnCr5) 58 + 4 HRC

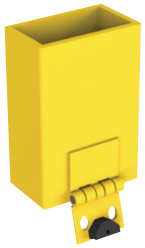


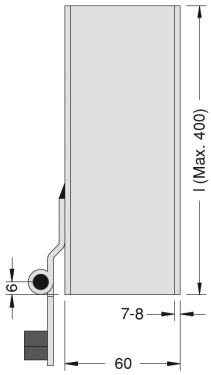


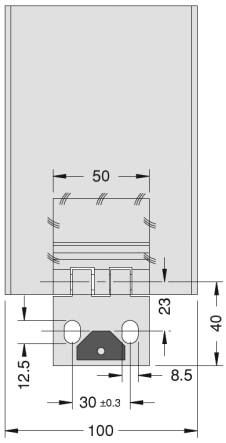
Sipariş Kodu	s	VW Code
M2104/632120	2	39D 20632/1
M2104/632110	1	39D 20632/1
M2104/632105	0,5	39D 20632/1
M2104/632220	2	39D 20632/2
M2104/632210	1	39D 20632/2
M2104/632205	0,5	39D 20632/2
M2104/632202	0,2	39D 20632/2
M2104/632201	0,1	39D 20632/2
M2104/632301	0,1	39D 20632/3
M2104/632302	0,2	39D 20632/4
M2104/632305	0,5	39D 20632/5
M2104/632310	1	39D 20632/10
M2104/632320	2	39D 20632/20
M2104/632350	5	39D 20632/50

M2106 İstif Takozu / Spacing Bar

Mat. : S235JRG2(RSST37-2)



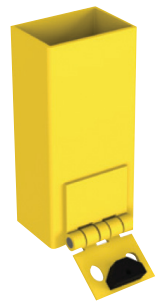


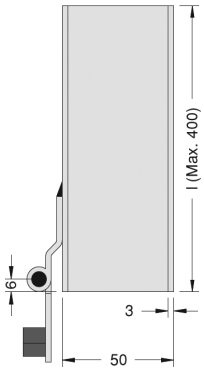


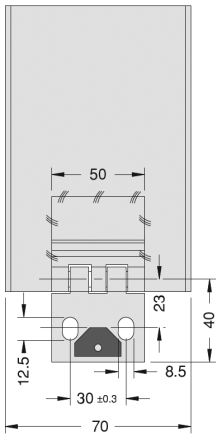
Sipariş Kodu	l	VW Code
M2106/10060080	80	39D 578/30
M2106/10060090	90	39D 578/30
M2106/10060100	100	39D 578/30
M2106/10060110	110	39D 578/30
M2106/10060120	120	39D 578/30
M2106/10060130	130	39D 578/30
M2106/10060140	140	39D 578/30
M2106/10060150	150	39D 578/30
M2106/10060160	160	39D 578/30
M2106/10060170	170	39D 578/30
M2106/10060180	180	39D 578/30
M2106/10060190	190	39D 578/30
M2106/10060200	200	39D 578/30
M2106/10060210	210	39D 578/30
M2106/10060220	220	39D 578/30
M2106/10060230	230	39D 578/30
M2106/10060240	240	39D 578/30
M2106/10060250	250	39D 578/30
M2106/10060260	260	39D 578/30
M2106/10060270	270	39D 578/30
M2106/10060280	280	39D 578/30
M2106/10060290	290	39D 578/30
M2106/10060300	300	39D 578/30
M2106/10060310	310	39D 578/30
M2106/10060320	320	39D 578/30
M2106/10060330	330	39D 578/30
M2106/10060340	340	39D 578/30
M2106/10060350	350	39D 578/30

M2107 İstif Takozu / Spacing Bar

Mat. : S235JRG2(RSST37-2)



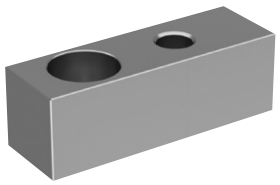


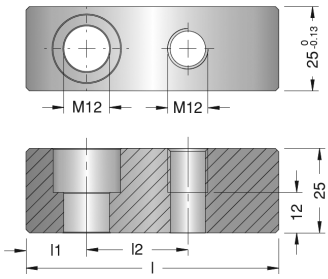


Sipariş Kodu	l	VW Code
M2107/7050080	80	39D 578/30
M2107/7050090	90	39D 578/30
M2107/7050100	100	39D 578/30
M2107/7050110	110	39D 578/30
M2107/7050120	120	39D 578/30
M2107/7050130	130	39D 578/30
M2107/7050140	140	39D 578/30
M2107/7050150	150	39D 578/30
M2107/7050160	160	39D 578/30
M2107/7050170	170	39D 578/30
M2107/7050180	180	39D 578/30
M2107/7050190	190	39D 578/30
M2107/7050200	200	39D 578/30
M2107/7050210	210	39D 578/30
M2107/7050220	220	39D 578/30
M2107/7050230	230	39D 578/30
M2107/7050240	240	39D 578/30
M2107/7050250	250	39D 578/30
M2107/7050260	260	39D 578/30
M2107/7050270	270	39D 578/30
M2107/7050280	280	39D 578/30
M2107/7050290	290	39D 578/30
M2107/7050300	300	39D 578/30
M2107/7050310	310	39D 578/30
M2107/7050320	320	39D 578/30
M2107/7050330	330	39D 578/30
M2107/7050340	340	39D 578/30
M2107/7050350	350	39D 578/30

M2110 **Kama** / Metric Master Key

Mat. : CK45

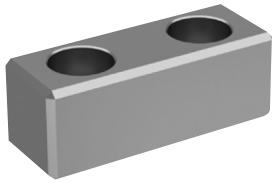


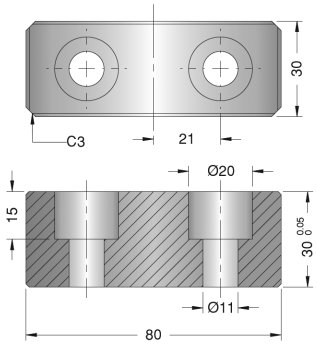


Sipariş Kodu	l1	l2	l	FORD Code
M2110/2575	18	30	75	WDX30-80-06075
M2110/25100	30	40	100	WDX30-80-06100
M2110/25150	55	40	150	WDX30-80-06150

M2111 **Stoplama Bloğu** / Balance Stock

Mat. : CK45

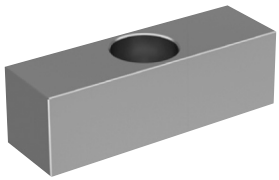


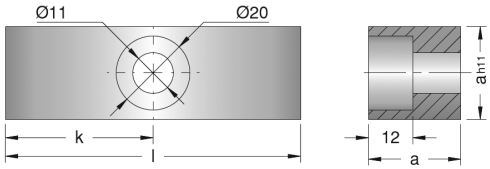


Sipariş Kodu	TOFAŞ Code
M2111/ 3080	TKS SMS 080 030 01

M2112 **Kama** / Standart Key Sguare

Mat. : CK45

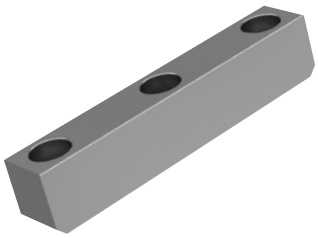


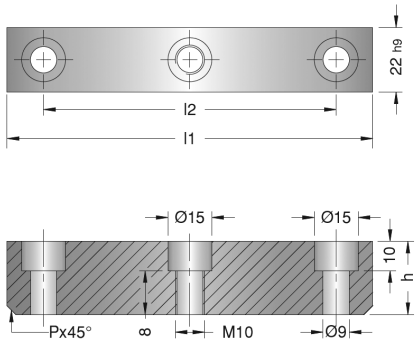


Sipariş Kodu	k	a	l	FIAT Code
M2110/25880	40	25	80	CH_R_025080
M2110/25125	62.5	25	125	CH_R_025125
M2110/30080	40	30	80	CH_R_030080
M2110/31125	62.5	30	125	CH_R_030125

M2113 **Kama** / Standart Key Sguare

Mat. : CK45

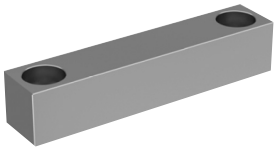


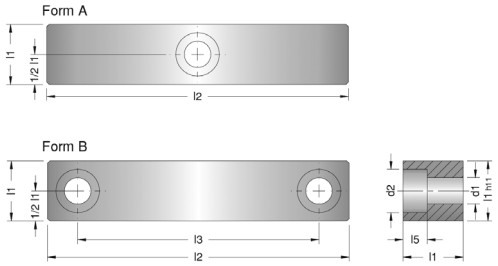


Sipariş Kodu	p	l2	h	l1	VW/AUDI Code
M2113/14050	-	32	14	50	39V1304/1
M2113/14080	-	50	14	80	39V1304/2
M2113/14100	-	80	14	100	39V1304/3
M2113/14125	-	100	14	125	39V1304/4
M2113/22050	4	32	22	50	39V1304/7
M2113/22080		50	22	80	39V1304/8
M2113/22100		80	22	100	39V1304/9
M2113/22125		100	22	125	39V1304/10
M2113/40050		32	40	50	39V1304/11
M2113/40080		50	40	80	39V1304/12
M2113/40100		80	40	100	39V1304/13
M2113/40125		100	40	125	39V1304/14

M2114 **Kama** / Standart Key Sguare

Mat. : CK45



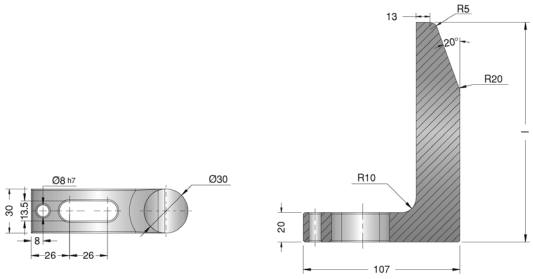


Sipariş Kodu	Form	d2	d1	l3	l4	l5	l1	l2	FORD Code
M2114/25125	A	18	11	-	62.5	11	25	125	WDX30-60-0125125
M2114/25180	B			130	25		25	180	WDX30-60-0125180
M2114/30125	A	20	13	-	62.5	13	30	125	WDX30-60-0130125
M2114/30180	B			120	30		30	180	WDX30-60-0130180

M2120 **Düz L Dayama** / Gage

Mat. : Cf53



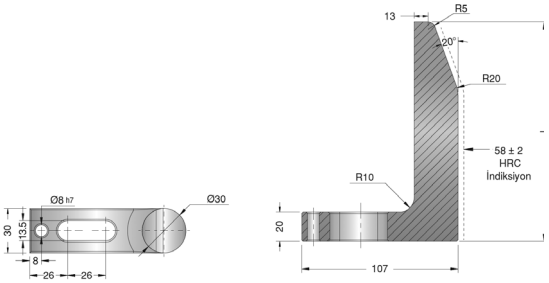


Sipariş Kodu	l	VW/AUDI
M2120/065	65	39D807/1
M2120/090	90	39D807/1
M2120/120	120	39D807/1
M2120/150	150	39D807/1
M2120/180	180	39D807/1
M2120/250	250	39D807/1

M2121 **Sertleştirilmiş Düz L Dayama** / Gage

Mat. : Cf53



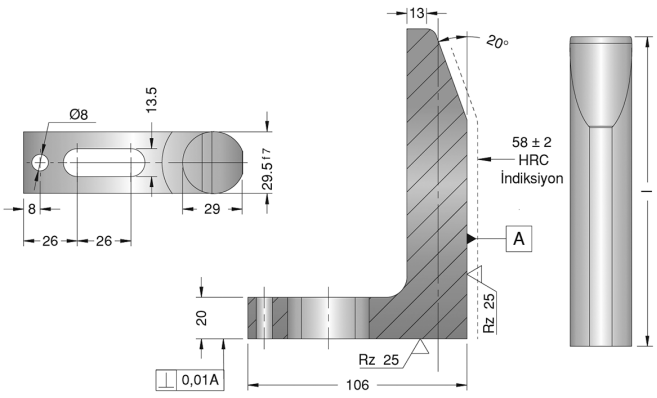


Sipariş Kodu	l	VW/AUDI
M2121/065	65	39D807/4
M2121/090	90	39D807/4
M2121/120	120	39D807/4
M2121/150	150	39D807/4
M2121/180	180	39D807/4
M2121/250	250	39D807/4

M2122 **Frezeli L Dayama** / Gage Hardened

Mat. : Cf53 58±2 HRC

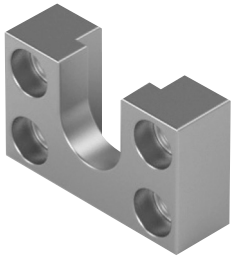


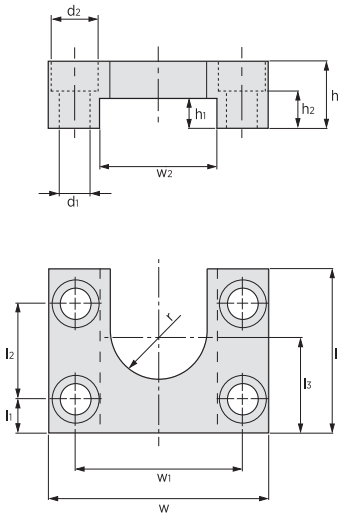


Sipariş Kodu	l	VW/AUDI
M2122/065	65	39D807/2
M2122/090	90	39D807/2
M2122/120	120	39D807/2
M2122/150	150	39D807/2
M2122/180	180	39D807/2
M2122/250	250	39D807/2

M2024 **Kavrama Plakaları** / Coupling Plates

Mat. : CK45



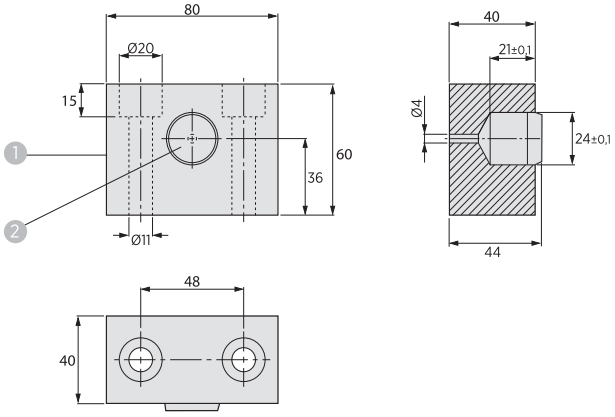


Sipariş Kodu	w	h	l	l1	l2	l3	w1	h1	h2	d1	d2	r	Screw
M2024/01001	80	25	50	11.5	27	30	57	38	15	11	17	14	M10
M2024/01002	100	32	55	12.5	30	35	75	50	20	13	20	20	M12
M2024/01003	120	40	65	16	33	45	88	60	24	17	26	25	M16
M2024/01004	150	45	100	18	64	64	114	80	19	21	33	33	M20

M2025 Kızak Stoplama Bloğu / Slide Stop Block

Mat. : CK45



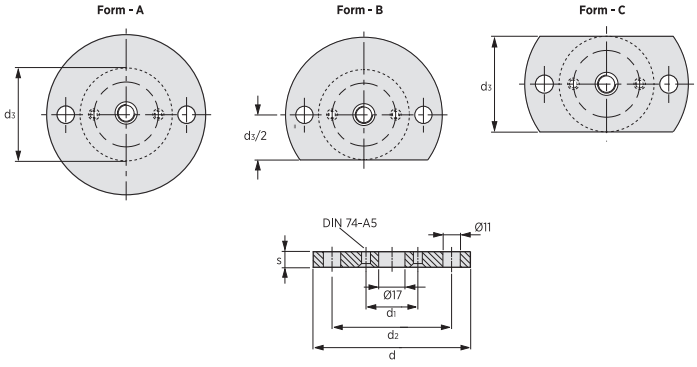


Sipariş Kodu
M2025/02-040080

M2028 Konik Merkezleme Ayar Plakaları

Mat. : CK45



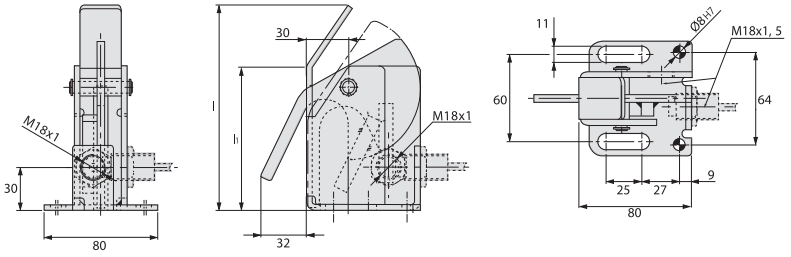


Sipariş Kodu	Form	d	d1	d2	d3	s
M2028/100-005	A	100	40,5	76	58	5,5
M2028/120-005	A	120	50,5	96	78	5,5
M2028/100-105	B	100	40,5	76	58	5,5
M2028/120-105	B	120	50,5	96	78	5,5
M2028/100-205	C	100	40,5	76	58	5,5
M2028/120-205	C	120	50,5	96	78	5,5
M2028/100-010	A	100	40,5	76	58	10
M2028/120-010	A	120	50,5	96	78	10
M2028/100-110	B	100	40,5	76	58	10
M2028/120-110	B	120	50,5	96	78	10
M2028/100-210	C	100	40,5	76	58	10
M2028/120-210	C	120	50,5	96	78	10
M2028/100-215	C	100	40,5	76	58	10,5
M2028/120-215	C	120	50,5	96	78	10,5

M2030 **Kontrol Parçalı Mekanik Dayamalar** / Front Gage

Mat. : St37

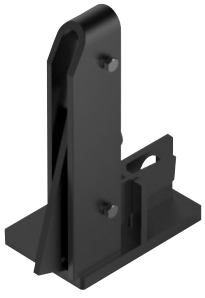


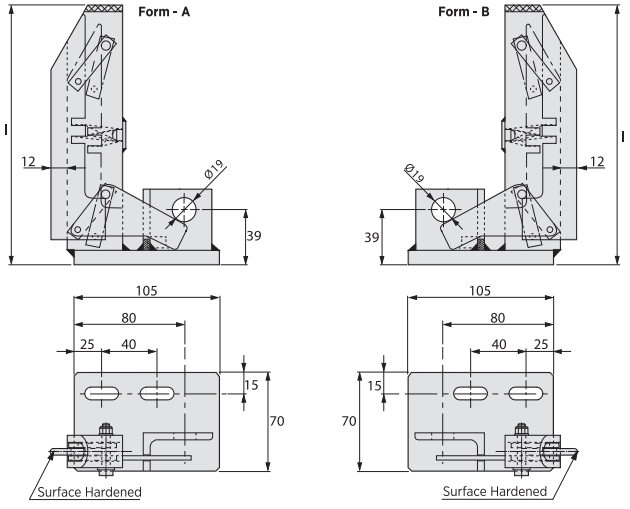


Sipariş Kodu	l	l1
M2030/075-117	117	75
M2030/100-142	142	100
M2030/150-192	192	150

M2032 **Kontrol Parçalı Mekanik Dayamalar** / Gage for Sensor

Mat. : St37



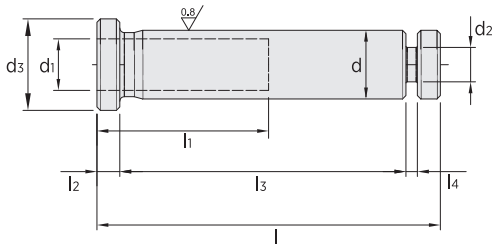


Sipariş Kodu	Form	l
M2032/0145001	A	145
M2032/0145002	B	145
M2032/0185003	A	185
M2032/0185004	B	185
M2032/0225005	A	225
M2032/0225006	B	225

M2038 Sac Kaldırma Pimi - Yay Destekli

Mat. : 16MnCr5 HRC 60

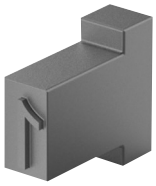


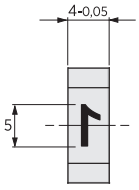


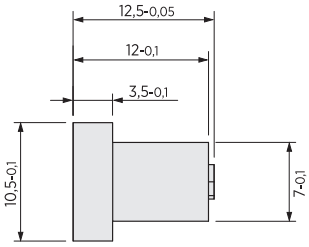
Sipariş Kodu	d h6	L -0,5	L1	L2	L3 ±0,1	L4	d1	d2 -0,05/-0,1	d3 -0,2/-0,51
M2038/0060295	6	29,5	-	2	25	0,5	-	3	8
M2038/006030	6	30	-	2	25	1	-	3	8
M2038/0060365	6	36,5	-	2	32	0,5	-	3	8
M2038/006037	6	37	-	2	32	1	-	3	8
M2038/008031	8	31	-	3	25	1	-	5	10
M2038/008032	8	32	-	3	25	2	-	5	10
M2038/008038	8	38	-	3	32	1	-	5	10
M2038/008039	8	39	-	3	32	2	-	5	10
M2038/008046	8	46	-	3	40	1	-	5	10
M2038/008047	8	47	-	3	40	2	-	5	10
M2038/010033	10	33	18	3	25	2	6,5	6	12,5
M2038/010034	10	34	18	3	25	3	6,5	6	12,5
M2038/010040	10	40	24	3	32	2	6,5	6	12,5
M2038/010041	10	41	24	3	32	3	6,5	6	12,5
M2038/010048	10	48	30	3	40	2	6,5	6	12,5
M2038/010049	10	49	30	3	40	3	6,5	6	12,5
M2038/012033	12	33	18	3	25	2	8,5	7	16
M2038/012034	12	34	18	3	25	3	8,5	7	16
M2038/012040	12	40	24	3	32	2	8,5	7	16
M2038/012041	12	41	24	3	32	3	8,5	7	16
M2038/012048	12	48	30	3	40	2	8,5	7	16
M2038/012049	12	49	30	3	40	3	8,5	7	16
M2038/016042	16	42	24	3	32	3	10,5	7	20
M2038/016044	16	44	24	3	32	5	10,5	8	20
M2038/016050	16	50	30	3	40	3	10,5	8	20
M2038/016052	16	52	30	3	40	5	10,5	8	20
M2038/016060	16	60	40	3	50	3	10,5	8	20
M2038/016062	16	62	40	3	50	5	10,5	8	20
M2038/020052	20	52	30	5	40	3	12,5	12	25
M2038/020054	20	54	30	5	40	5	12,5	12	25
M2038/020062	20	62	40	5	50	3	12,5	12	25
M2038/020064	20	64	4	5	50	5	12,5	12	25
M2038/020075	20	75	50	5	63	3	12,5	12	25
M2038/020077	20	77	50	5	63	5	12,5	12	25

M2040 Zımba

Mat. : X153CrMoV12 HRC 54 ±56







Sipariş Kodu	Zımba
M2040/06-000	0
M2040/06-001	1
M2040/06-002	2
M2040/06-003	3
M2040/06-004	4
M2040/06-005	5
M2040/06-006	6 - 9
M2040/06-007	7
M2040/06-008	8
M2040/06-009	A
M2040/06-010	B
M2040/06-011	C
M2040/06-012	D

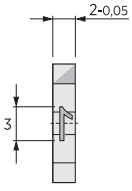
Sipariş Kodu	Zımba
M2040/06-013	E
M2040/06-014	F
M2040/06-015	G
M2040/06-016	H
M2040/06-017	I
M2040/06-018	J
M2040/06-019	K
M2040/06-020	L
M2040/06-021	M
M2040/06-022	N
M2040/06-023	O
M2040/06-024	P
M2040/06-025	Q

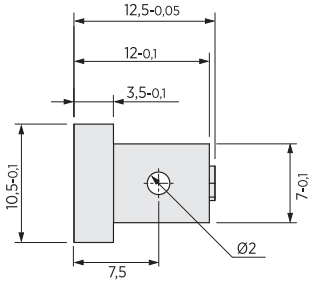
Sipariş Kodu	Zımba
M2040/06-026	R
M2040/06-027	S
M2040/06-028	T
M2040/06-029	U
M2040/06-030	V
M2040/06-031	W
M2040/06-032	X
M2040/06-033	Y
M2040/06-034	Z
M2040/06-035	Space
M2040/06-036	-
M2040/06-037	-

M2042 Zımba

Mat. : X153CrMoV12 HRC 54 ±56







Sipariş Kodu	Zımba
M2042/06-000	0
M2042/06-001	1
M2042/06-002	2
M2042/06-003	3
M2042/06-004	4
M2042/06-005	5
M2042/06-006	6 - 9
M2042/06-007	7
M2042/06-008	8
M2042/06-009	A
M2042/06-010	B
M2042/06-011	C
M2042/06-012	D

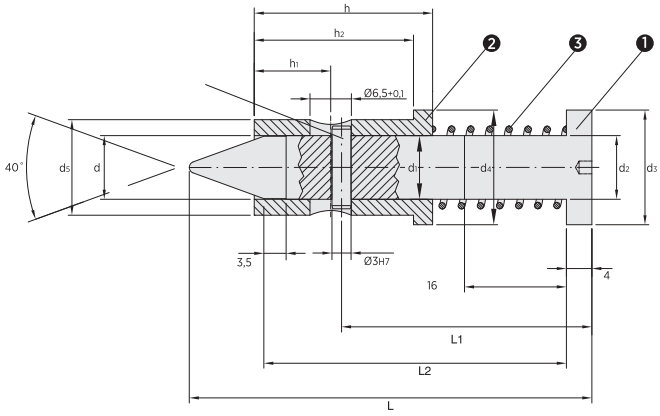
Sipariş Kodu	Zımba
M2042/06-013	E
M2042/06-014	F
M2042/06-015	G
M2042/06-016	H
M2042/06-017	I
M2042/06-018	J
M2042/06-019	K
M2042/06-020	L
M2042/06-021	M
M2042/06-022	N
M2042/06-023	O
M2042/06-024	P
M2042/06-025	Q

Sipariş Kodu	Zımba
M2042/06-026	R
M2042/06-027	S
M2042/06-028	T
M2042/06-029	U
M2042/06-030	V
M2042/06-031	W
M2042/06-032	X
M2042/06-033	Y
M2042/06-034	Z
M2042/06-035	Space
M2042/06-036	-
M2042/06-037	-

M2044 Pilot Pim Ünitesi

Mat. : Ø3x14 DIN 6325 HRC 58 ±2

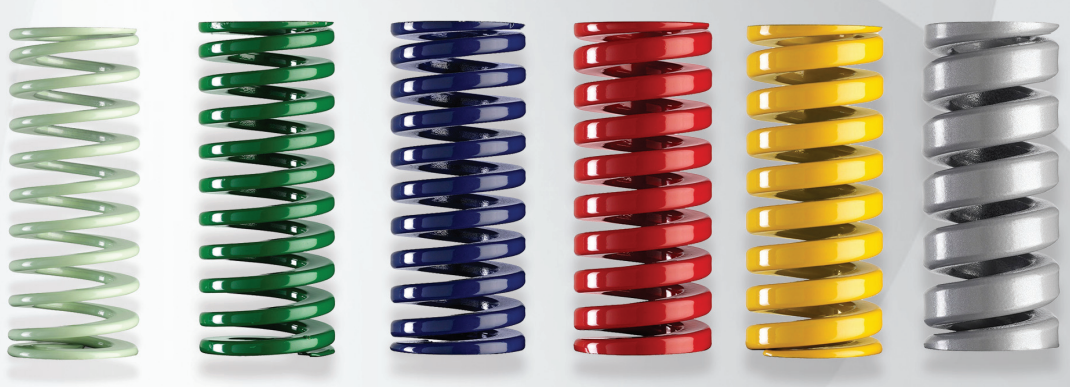




Pilot pim ünitesi M2044 progresif kalıplarda
hareketli sacın her bir hatve de merkezlenmesi için kullanılır.

Sipariş Kodu	d +0,05	L	h	L2	d1 H7,f7	d2	d3	d4	d5 f7	h	h1	h2 +0,1	Spring force preladed (daN)	Spring force pressed (daN)
M2044/01	9,8	63,2	39,3	47,5	10	10	18	18	15	28	12	25	4,9	6,2
M2044/02	15,8	72,5	46,3	54,5	16	16	24	30	26	28	12	25	4,8	5,6

Mekanik Yaylar



ISO 9001 ile uyumlu kalite güvence prosedürleri paralelinde devam eden yüksek seviyelerde hassaslık, güvenilirlik ve dayanıklılık ölçütleri sağlamaktadır. Special Springs'in sürekli gelişen performansındaki, doğrudan fabrikadan karşılaştırmalı ve tahrip edici testler yolu ile izlenmektedir.

Bu ürünlerin mükemmelliği kalıplarında Special Springs'i tercih eden müşterilerin artan sayısı ile doğrulanmaktadır.

TEMEL ÖZELLİKLER ve ÜRETİM ÖZELLİKLERİ

Aşağıdaki temel özellikler Special Springs'in üstünlüğünü göstermektedir,

- Sadece Special Springs'in tarifleri doğrultusunda üretilen alaşımlı yay çeliği kullanımı;
- Çeliğin özelliklerini arttırmak için profillerin kullanımı;
- Özel yay sargı makinalarının kullanımı;
- Special Springs'in kendi geliştirdiği özel ısıl işlem yöntemlerinin kullanımı;
- Optimum dikey ve paralel hizalamay› garantilemek için yay uçlarının taşlanmasına ve kapanmasına gösterilen maksimum özen;
- Çalışma koşullarındaki yük kayıplarında kayda değer bir düşüşü garantilemek için bütün yaylar bobin şeklindedir;
- Metal aşınmaya karşı direnci arttırmak için özel örseleme ve vuruş yöntemleri;
- En iyi koruma muhafaza etme ve tamamlamayı sağlamak için Special Springs'in özel ön bakım ve toz kaplama uygulamaları;
- Boyutsal uygunluğu ve hassasiyeti garantilemek için üretim aşamasında ve finalde yapılan yoğun kontrol.

YAY SEÇİMİ

Special Springs'te kalıp elemanlarını seçme işlemi, yay hesaplamalar›nda devrim yapan yeni CAD SPRINGS yazılımı sayesinde büyük ölçüde kolaylaştırılmış ve elverişli bir hale getirilmiştir. Eğer yay türü tam olarak bilinmiyorsa, sadece ilgili verilerin (kurs, kapalı boy ve gereken yük) basitçe girilmesi özellikleri uyan tüm yayların hemen seçilip sunulmasını sağlayacaktır. Seçeneklerin tam bir listesi (çaplar, boylar ve yay sayısı) araştırmayı daha da kolaylaştıracaktır. CAD SPRINGS ayrıca seçilmiş yayın bir çiziminin parametrik oluşturması işlemine de sahiptir; Çeşitli sunum seçeneklerinden yararlanılarak yay aynı zamanda uygulama ile ilgili gerçek esneme koşullarında gösterilebilir.

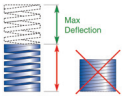
CAD SPRINGS programını www.specialsprings.com web adresinden indirerek kullanabilir ya da firmamızdan talep edebilirsiniz.

Seri Serie	Standart Standard ISO 10243	Renk Color	Yük Load	+ 3.000.000	- 1.500.000	300-500.000	100-200.000
VL		Yeşil Green	Hafif yük Light Load	%30 L_0	%40 L_0	%45 L_0	%50 L_0
V		Yeşil Green	Hafif yük Light Load	%25 L_0	%30 L_0	%35 L_0	%40 L_0
B		Mavi Blue	Orta yük Medium Load	%25 L_0	%30 L_0	%33.75 L_0	%37.5 L_0
R		Kırmızı Red	Ağır yük Strong Load	%20 L_0	%25 L_0	%27.5 L_0	%30 L_0
G		Sarı Yellow	Ekstra ağır yük Extra Strong Load	%17 L_0	%20 L_0	%22.5 L_0	%25 L_0
A		Gri Grey	Ekstra ağır yük Extra Strong Load	%10 L_0	%12 L_0	%13.5 L_0	%15 L_0

Kalıp Yayları Teknik Özellikleri

Springs for Mould Specifications

ÖNERİLER, TALİMATLAR, SINIRLAR / *Recommendations, Instructions, Limits*

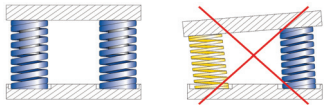


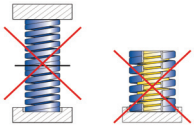
Yaylara önerilen maksimum kursun üzerinde asla baskı uygulamayın, gergin durumda bulunan yaylar uzun süreli yük altında bırakıldığında anormal halsizliğe neden olabilir.

Do not exceed the maximum defl ection as it may cause sudden failure of the springs and damages on the tool. Do not store springs in compressed state for long time as it may cause abnormal fatigue to the springs.

Destek ve baskı yüzeylerinde yayın dik konumda olduğundan emin olun.

When using different type of springs in parallel simultaneously ensure that overall defl ection and force guarantee a balanced load. When setting the springs ensure the best perpendicularity to the working surface to avoid early failure of the springs.



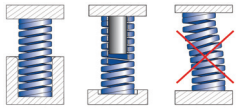


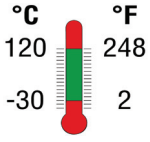
Çakışan yay kullanımından kaçının bu durumda kullanıldığında ciddi yaralanmalara ve ciddi tehlikelere sebep olabilir.

Avoid to using springs in vertical group not fully guided or using springs inserted in each other as it may cause serious damage or injury.

Serbest boyla, çapı oranı 3.5'u geçen yayların bir kılavuz pim ile kılavuzlayın.

The bigger the guide the longer the lifetime. It is essential to guide all springs with a free length /diameter ratio exceeding 3.5.



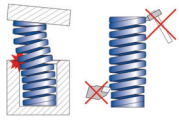


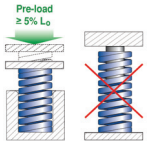
250°C'lik çalışma ısısını açmayınız 120°C'ye çıkarken önemli bir yüklem düşüşü görülmez, bu ısının üstünde her 40°C derecede ortalama %1'lik kayıp hesaba katılmalıdır. En ideal çalışma sıcaklığı -30°C +120°C.

Best working temperature –30°C +120°C. Over 120°C and up to 250°C should beconsidered an average loss of 1% on springs rate for every 40°C.

Yayların fiziksel özelliklerini değiştirmeyin (kesme, taşlama, içe veya dışa bükme) aksi durumda yayın beklenen ömrünü azaltır, her zaman hasarlı yayları yeni yaylar ile değiştiriniz.

Any alteration on the surface of the springs (cutting, grinding, scratches, etc.) may significantly reduce the expected lifetime. Always replace the damaged springs with new ones.



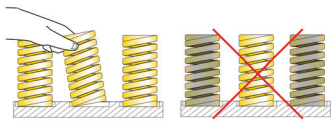


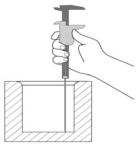
Serbest uzunluğun %5'nin minimum ön yüklemeye başvurulması önerilir. Böylece ön yük ile yaylar daha uzun kullanım ömrü garanti edecektir.

The bigger the pre-load the longer the lifetime of the springs for the same total defl ection (% of Lo). Thus longer springs with bigger pre-load will assure longer lifetime. It is recommended to apply a minimum pre-load of 5% of the free length.

Bir seferde tek yay değiştirmeyin, bunun yerine bütün yayların eş zamanlı değiştirileceği programlı bakım prosedürü uygulayın. Aksi durumda dengesiz bir yük diğer kaynaklarda zarar meydana getirecektir. Prosedür uygulandığı takdirde olabilecek zararı önler, para tasarrufu sağlar.

If one spring collapses, an imbalanced load will occur, possibly damaging the other springs. Replace all springs. An advance planned maintenance according to the indicated lifetime of the springs will benefit in avoiding damages and saving of money.



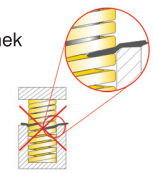


Yaylarda erken deformasyonu önlemek için kurulu boy ölçülerini ve çalışma boyunu mutlaka kontrol edin, çalışma stroklarını ayarlayın.

Tool maintenance can vary the original working defl ection of the springs. Please always check the real working stroke of the springs to avoid early failure of the springs or damages in the tool.

Hurda veya herhangi bir katı parçanın bobinler arasındaki varlığı yaylarda sapma, aşırı yük ve hasara neden olur, bunu önlemek için lütfen özen gösterin..

The presence of scraps or any solid piece between coils causes a reduction of springs defl ectionwith overloads and early failure of the springs with damage in the tool. Take care to avoid that.

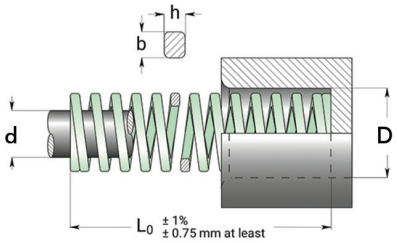


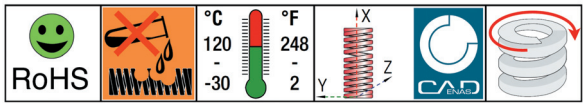
M1341 Açık Yeşil Yay - Ekstra Hafif Yük

1 N = 0.1 daN = 0.102 kgf
Load (N) = R (N/mm) x Deflection (mm)



SPECIAL SPRINGS





Sipariş Kodu	DH Hole Diameter	Dd Rod Diameter	L0 Free Length	±10% Spring Constant	A 30% L0 + 3.000.000		B 40% L0 - 1.500.000		C 45% L0 300 - 500.000		D 50% L0 100 - 200.000		E approx. do not use	
	b x h													
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1341/10X25			25	10	7.5	64	10	85	11.25	96	12.5	106	14.1	50
M1341/10X32			32	8.5	9.6	62	12.8	83	14.40	94	16	104	18.5	50
M1341/10X38			38	6.5	11.4	63	15.2	84	17.10	94	19	105	22.5	50
M1341/10X44	**10**	5	44	5.5	13.2	63	17.6	84	19.80	95	22	106	23.2	50
M1341/10X51			51	4.8	15.3	64	20.4	86	22.95	96	25.5	107	27.5	25
M1341/10X64			64	4.2	19.2	63	25.6	84	28.80	95	32	106	34	25
M1341/10X76			76	3.3	22.8	62	30.4	82	34.20	92	38	103	40.4	25
M1341/10X305	1.65	x 1.0	305	2.7	91.5	59	122	79	137.25	89	152.5	99	172.7	10
M1341/13X25			25	16	7.5	120	10	160	11.25	180	12.5	200	13.6	50
M1341/13X32			32	12.2	9.6	117	12.8	156	14.40	176	16	195	17.9	50
M1341/13X38			38	10.3	11.4	117	15.2	157	17.10	176	19	196	21.9	50
M1341/13X44			44	8.7	13.2	115	17.6	153	19.80	172	22	191	26.4	25
M1341/13X51	**12.5**	6.3	51	7.5	15.3	115	20.4	153	22.95	172	25.5	191	29.6	25
M1341/13X64			64	5.8	19.2	111	25.6	148	28.80	167	32	186	67.1	25
M1341/13X76			76	4.7	22.8	107	30.4	143	34.20	161	38	179	44.9	25
M1341/13X89			89	4.1	26.7	109	35.6	146	40.05	164	44.5	182	53.2	20
M1341/13X102			102	3.6	30.6	110	40.8	147	45.90	165	51	184	59.4	10
M1341/10X305	2.3	x 1.3	305	1.25	91.5	114	122	153	137.25	172	152.5	191	186.6	10
M1341/16X25			25	20.2	7.5	152	10	202	11.25	227	12.5	253	14	50
M1341/16X32			32	16	9.6	154	12.8	205	14.40	230	16	256	18.7	50
M1341/16X38			38	12.3	11.4	140	15.2	187	17.10	210	19	234	22	25
M1341/16X44			44	10.6	13.2	140	17.6	187	19.80	210	22	233	26.1	25
M1341/16X51			51	8.9	15.3	136	20.4	182	22.95	204	25.5	227	30.4	25
M1341/16X64	**16**	8	64	7	19.2	134	25.6	179	28.80	202	32	224	38.8	25
M1341/16X76			76	5.8	22.8	132	30.4	176	34.20	198	38	220	46.4	20
M1341/16X89			89	4.8	26.7	128	35.6	171	40.05	192	44.5	214	54.2	20
M1341/16X102			102	4.1	30.6	125	40.8	167	45.90	188	51	209	62.4	20
M1341/16X115			115	3.9	34.5	135	46	179	51.75	202	57.5	224	70.6	10
M1341/16X305	3.05	x 1.5	305	1.5	91.5	137	122	183	137.25	206	152.5	229	190.2	10
M1341/20X25			25	29.4	7.5	221	10	294	11.3	331	12.5	368	13.9	50
M1341/20X32			32	22.6	9.6	217	12.8	289	14.4	325	16	362	18.2	50
M1341/20X38			38	18.6	11.4	212	15.2	283	17.1	318	19	353	22	25
M1341/20X44			44	15.7	13.2	207	17.6	276	19.8	311	22	345	25.8	25
M1341/20X51			51	13.7	15.3	210	20.4	279	23	314	25.5	349	30.3	25
M1341/20X64			64	11.3	19.2	217	25.6	289	28.8	325	32	362	38.9	25
M1341/20X76	**20**	10	76	9.8	22.8	223	30.4	298	34.2	335	38	372	47	25
M1341/20X89			89	8.3	26.7	222	35.6	295	40.1	332	44.5	369	55.7	20
M1341/20X102			102	7.4	30.6	226	40.8	302	45.9	340	51	377	64.2	20
M1341/20X115			115	6.4	34.5	221	46	294	51.8	331	57.5	368	72.9	10
M1341/20X127			127	5.9	38.1	225	50.8	300	57.2	337	63.5	375	80.7	10
M1341/20X139			139	5.4	41.7	225	55.6	300	62.6	338	69.5	375	88.4	10
M1341/20X152			152	4.9	45.6	223	60.8	298	68.4	335	76	372	96.7	10
M1341/20X305	3.9	x 1.7	305	2.5	91.5	229	122	305	137	343	153	381	196	10

Sipariş Kodu	D_H Hole Diameter b x h	D_d Rod Diameter	L_0 Free Length	± 10% Spring Constant	A 30% L_0 + 3.000.000		B 40% L_0 - 1.500.000		C 45% L_0 300 - 500.000		D 50% L_0 100 - 200.000		E approx. do not use	
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1341/25X25			25	53.9	7.5	404	10.0	539	11.3	606	12.5	674	12.9	50
M1341/25X32			32	42.2	9.6	405	12.8	540	14.4	608	16.0	675	17.2	25
M1341/25X38			38	35.8	11.4	408	15.2	544	17.1	612	19.0	680	20.7	25
M1341/25X44			44	31.4	13.2	414	17.6	553	19.8	622	22.0	691	24.4	25
M1341/25X51			51	27.0	15.3	413	20.4	551	23.0	620	25.5	689	28.5	25
M1341/25X64			64	21.6	19.2	415	25.6	553	28.8	622	32.0	691	36.5	25
M1341/25X76	**25**	12.5	76	18.1	22.8	413	30.4	550	34.2	619	38.0	688	43.9	20
M1341/25X89			89	15.2	26.7	406	35.6	541	40.1	609	44.5	676	51.4	20
M1341/25X102			102	13.2	30.6	404	40.8	539	45.9	606	51.0	673	59.3	20
M1341/25X115			115	11.8	34.5	407	46.0	543	51.8	611	57.5	679	67.2	10
M1341/25X127			127	10.6	38.1	404	50.8	538	57.2	606	63.5	673	74.4	10
M1341/25X139			139	9.6	41.7	400	55.6	534	62.6	600	69.5	667	81.6	10
M1341/25X152			152	8.8	45.6	401	60.8	535	68.4	602	76.0	669	89.5	10
M1341/25X178			178	7.6	53.4	406	71.2	541	80.1	609	89.0	676	105	10
M1341/25X203			203	6.7	60.9	408	81.2	544	91.4	612	102	680	121	10
M1341/25X305	5.4	x 2.7	305	4.4	91.5	403	122	537	137	604	153	671	182	5
M1341/32X38			38	43.1	11.4	491	15.2	655	17.1	737	19.0	819	19.9	20
M1341/32X44			44	37.3	13.2	492	17.6	656	19.8	739	22.0	821	23.5	20
M1341/32X51			51	32.4	15.3	496	20.4	661	23.0	744	25.5	826	27.6	20
M1341/32X64			64	25.5	19.2	490	25.6	653	28.8	734	32.0	816	35.2	20
M1341/32X76			76	21.6	22.8	492	30.4	657	34.2	739	38.0	821	42.4	20
M1341/32X89			89	18.1	26.7	483	35.6	644	40.1	725	44.5	805	50.0	10
M1341/32X102			102	15.7	30.6	480	40.8	641	45.9	721	51.0	801	57.6	10
M1341/32X115	**32**	16	115	14.2	34.5	490	46.0	653	51.8	735	57.5	817	65.5	10
M1341/32X127			127	12.7	38.1	484	50.8	645	57.2	726	63.5	806	72.5	10
M1341/32X139			139	11.6	41.7	484	55.6	645	62.6	726	69.5	806	79.4	10
M1341/32X152			152	10.6	45.6	483	60.8	644	68.4	725	76.0	806	87.3	10
M1341/32X178			178	9.0	53.4	481	71.2	641	80.1	721	89.0	801	103	5
M1341/32X203			203	7.8	60.9	475	81.2	633	91.4	713	102	792	118	5
M1341/32X254			254	6.4	76.2	488	102	650	114	732	127	813	148	5
M1341/32X305	6.8	x 3.3	305	5.3	91.5	485	122	647	137	727	153	808	178	5
M1341/40X51			51	48.1	15.3	736	20.4	981	23.0	1104	25.5	1227	28.0	20
M1341/40X64			64	39.2	19.2	753	25.6	1004	28.8	1129	32.0	1254	36.2	10
M1341/40X76			76	33.3	22.8	759	30.4	1012	34.2	1139	38.0	1265	43.7	10
M1341/40X89			89	28.4	26.7	758	35.6	1011	40.1	1137	44.5	1264	51.7	10
M1341/40X102			102	24.5	30.6	750	40.8	1000	45.9	1125	51.0	1250	59.8	10
M1341/40X115			115	22.1	34.5	762	46.0	1017	51.8	1144	57.5	1271	67.9	10
M1341/40X127	**40**	20	127	19.6	38.1	747	50.8	996	57.2	1120	63.5	1245	75.2	5
M1341/40X139			139	17.7	41.7	738	55.6	984	62.6	1107	69.5	1230	82.4	5
M1341/40X152			152	16.2	45.6	739	60.8	985	68.4	1108	76.0	1231	90.6	5
M1341/40X178			178	13.7	53.4	732	71.2	975	80.1	1097	89.0	1219	106	5
M1341/40X203			203	12.3	60.9	749	81.2	999	91.4	1124	101	1248	122	5
M1341/40X254			254	9.8	76.2	747	102	996	114	1120	127	1245	154	2
M1341/40X305	8.1	x 4.0	305	8.3	91.5	759	122	1013	137	1139	152	1266	185	2
M1341/50X64			64	86.3	19.2	1657	25.6	2209	28.8	2485	32.0	2762	35.1	5
M1341/50X76			76	70.6	22.8	1610	30.4	2146	34.2	2415	38.0	2683	42.2	5
M1341/50X89			89	59.8	26.7	1597	35.6	2129	40.1	2395	44.5	2661	50.3	5
M1341/50X102			102	52.0	30.6	1591	40.8	2122	45.9	2387	51.0	2652	58.4	5
M1341/50X115			115	46.1	34.5	1590	46.0	2121	51.8	2386	57.5	2651	66.1	5
M1341/50X127	**50**	25	127	42.2	38.1	1608	50.8	2144	57.2	2412	63.5	2680	73.8	5
M1341/50X139			139	38.2	41.7	1593	55.6	2124	62.6	2389	69.5	2655	80.9	5
M1341/50X152			152	34.3	45.6	1564	60.8	2085	68.4	2346	76.0	2607	89.0	2
M1341/50X178			178	29.4	53.4	1570	71.2	2093	80.1	2355	89.0	2617	105	2
M1341/50X203			203	25.5	60.9	1553	81.2	2071	91.4	2329	101	2588	121	2
M1341/50X254			254	20.6	76.2	1570	102	2093	114	2355	127	2616	152	2
M1341/50X305	10.9	x 5.3	305	17.2	91.5	1574	122	2098	137	2361	152	2623	184	2
M1341/63X76			76	57.8	22.8	1318	30.4	1757	34.2	1977	38.0	2196	47.3	5
M1341/63X89			89	51.4	26.7	1372	35.6	1830	40.0	2059	44.5	2287	54.9	5
M1341/63X102			102	44.4	30.6	1359	40.8	1812	45.9	2038	51.0	2264	64.1	5
M1341/63X115			115	38	34.5	1311	46.0	1748	51.7	1967	57.5	2185	75.6	5
M1341/63X127	**63**	38	127	33.2	38.1	1265	50.8	1687	57.1	1897	63.5	2108	82.6	2
M1341/63X152			152	27.4	45.6	1249	60.8	1666	68.4	1874	76.0	2082	99.8	2
M1341/63X178			178	24	53.4	1282	71.2	1709	80.1	1922	89.0	2136	118.4	2
M1341/63X203			203	21	60.9	1279	81.2	1705	91.3	1918	101.5	2132	135.9	2
M1341/63X254			254	16.4	76.2	1250	101.6	1666	114.3	1875	127	2083	172.8	2
M1341/63X305	11.0	x 7.8	305	13.6	91.5	1244	122	1659	137.2	1867	152.5	2074	208.6	2

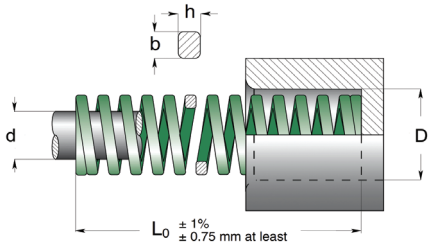
M1342 Yeşil Kalıp Yayı - Hafif Yük

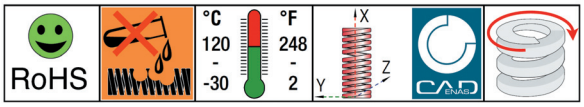
Rectangular Wire Mold Mechanical Springs

1 N = 0.1 daN = 0.102 kgf
Load (N) = R (N/mm) x Deflection (mm)



SPECIAL SPRINGS





Sipariş Kodu	DH Hole Diameter	Dd Rod Diameter	L0 Free Length	± 10% Spring Constant	A 25% L0 + 3.000.000		B 30% L0 - 1.500.000		C 35% L0 300 - 500.000		D 40% L0 100 - 200.000		E approx. do not use	
	b x h													
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1342/10X25			25	10	6.3	63	7.5	75	8.8	88	10.0	100	13.5	50
M1342/10X32			32	8.5	8.0	68	9.6	82	11.2	95	12.8	109	17.5	50
M1342/10X38			38	6.8	9.5	65	11.4	78	13.3	90	15.2	103	20.8	50
M1342/10X44	**10**	5	44	6.0	11.0	66	13.2	79	15.4	92	17.6	106	23.9	50
M1342/10X51			51	5.0	12.8	64	15.3	77	17.9	89	20.4	102	28.9	25
M1342/10X64			64	4.3	16.0	69	19.2	83	22.4	96	25.6	110	36.1	25
M1342/10X76			76	3.2	19.0	61	22.8	73	26.6	85	30.4	97	43.2	25
M1342/10X305	1.7 x 1.1		305	1.1	76.3	84	91.5	101	107	117	122	134	178	10
M1342/13X25			25	17.9	6.3	113	7.5	134	8.8	157	10.0	179	13.2	50
M1342/13X32			32	16.4	8.0	131	9.6	157	11.2	184	12.8	210	18.0	50
M1342/13X38			38	13.6	9.5	129	11.4	155	13.3	181	15.2	207	21.0	50
M1342/13X44			44	12.1	11.0	133	13.2	160	15.4	186	17.6	213	24.0	25
M1342/13X51	**12.5**	6.3	51	11.4	12.8	146	15.3	174	17.9	203	20.4	233	28.7	25
M1342/13X64			64	9.3	16.0	149	19.2	179	22.4	208	25.6	238	35.8	25
M1342/13X76			76	7.1	19.0	135	22.8	162	26.6	189	30.4	216	42.7	25
M1342/13X89			89	5.4	22.3	120	26.7	144	31.2	168	35.6	192	50.4	20
M1342/13X102			102	4.1	25.5	105	30.6	125	35.7	146	40.8	167	58.4	10
M1342/10X305	2.4 x 1.4		305	1.4	76.3	107	91.5	128	107	149	122	171	172	10
M1342/16X25			25	23.4	6.3	147	7.5	176	8.8	205	10.0	234	12.6	50
M1342/16X32			32	22.9	8.0	183	9.6	220	11.2	256	12.8	293	16.4	50
M1342/16X38			38	19.3	9.5	183	11.4	220	13.3	257	15.2	293	19.7	25
M1342/16X44			44	17.1	11.0	188	13.2	226	15.4	263	17.6	301	22.5	25
M1342/16X51			51	15.7	12.8	201	15.3	240	17.9	280	20.4	320	26.3	25
M1342/16X64	**16**	8	64	10.7	16.0	171	19.2	205	22.4	240	25.6	274	33.3	25
M1342/16X76			76	10.0	19.0	190	22.8	228	26.6	266	30.4	304	40.2	20
M1342/16X89			89	8.6	22.3	192	26.7	230	31.2	268	35.6	306	47.6	20
M1342/16X102			102	7.8	25.5	199	30.6	239	35.7	278	40.8	318	55.4	20
M1342/16X115			115	6.6	28.8	190	34.5	228	40.3	266	46.0	304	60.8	10
M1342/16X305	3.2 x 1.5		305	2.5	76.3	191	91.5	229	107	267	122	305	165	10
M1342/20X25			25	55.8	6.3	352	7.5	419	8.8	488	10.0	558	12.1	50
M1342/20X32			32	45.0	8.0	360	9.6	432	11.2	504	12.8	576	15.3	50
M1342/20X38			38	33.3	9.5	316	11.4	380	13.3	443	15.2	506	18.9	25
M1342/20X44			44	30.0	11.0	330	13.2	396	15.4	462	17.6	528	21.5	25
M1342/20X51			51	24.5	12.8	314	15.3	375	17.9	437	20.4	500	25.0	25
M1342/20X64			64	20.0	16.0	320	19.2	384	22.4	448	25.6	512	31.1	25
M1342/20X76	**20**	10	76	16.0	19.0	304	22.8	365	26.6	426	30.4	486	37.3	25
M1342/20X89			89	14.0	22.3	312	26.7	374	31.2	436	35.6	498	44.5	20
M1342/20X102			102	12.0	25.5	306	30.6	367	35.7	428	40.8	490	51.1	20
M1342/20X115			115	10.9	28.8	314	34.5	376	40.3	439	46.0	501	58.2	10
M1342/20X127			127	9.5	31.8	302	38.1	362	44.5	422	50.8	483	64.9	10
M1342/20X139			139	8.4	35.0	294	42.0	353	48.7	409	56.0	470	71.5	10
M1342/20X152			152	7.5	38.0	285	45.6	342	53.2	399	60.8	456	78.8	10
M1342/20X305	4.0 x 2.1		305	4.04	76.3	305	91.5	366	107	427	122	488	157	10

Sipariş Kodu	D_H Hole Diameter b x h	D_d Rod Diameter b x h	L_0 Free Length	± 10% Spring Constant	A 25% L_0 + 3.000.000		B 30% L_0 - 1.500.000		C 35% L_0 300 - 500.000		D 40% L_0 100 - 200.000		E approx. do not use	
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1342/25X25	25	12,5	25	100	6.3	630	7.5	750	8.8	875	10.0	1000	11.9	50
M1342/25X32			32	80.3	8.0	642	9.6	771	11.2	899	12.8	1028	16.0	25
M1342/25X38			38	62.0	9.5	589	11.4	707	13.3	825	15.2	942	18.3	25
M1342/25X44			44	52.9	11.0	582	13.2	698	15.4	815	17.6	931	21.4	25
M1342/25X51			51	44.0	12.8	563	15.3	673	17.9	785	20.4	898	24.9	25
M1342/25X64			64	35.2	16.0	563	19.2	676	22.4	788	25.6	901	31.4	25
M1342/25X76			76	28.0	19.0	532	22.8	638	26.6	745	30.4	851	37.5	20
M1342/25X89			89	24.0	22.3	535	26.7	641	31.2	748	35.6	854	43.5	20
M1342/25X102			102	21.1	25.5	538	30.6	646	35.7	753	40.8	861	51.1	20
M1342/25X115			115	18.7	28.8	539	34.5	645	40.3	753	46.0	860	58.1	10
M1342/25X127			127	16.7	31.8	531	38.1	636	44.5	742	50.8	848	64.1	10
M1342/25X139			139	15.3	35.0	536	42.0	643	48.7	744	56.0	857	70.4	10
M1342/25X152			152	14.0	38.0	532	45.6	638	53.2	745	60.8	851	77.1	10
M1342/25X178			178	12.5	44.5	556	53.4	668	62.3	779	71.2	890	93.1	10
M1342/25X203			203	10.4	50.8	528	60.9	633	71.1	739	81.2	844	103	10
M1342/25X305	5.4	x 2.7	305	7.0	76.3	534	91.5	641	107	747	122	854	156	5
M1342/32X38	32	16	38	94.0	9.5	893	11.4	1072	13.3	1250	15.2	1429	18.3	20
M1342/32X44			44	79.5	11.0	875	13.2	1049	15.4	1224	17.6	1399	21.5	20
M1342/32X51			51	67.0	12.8	858	15.3	1025	17.9	1196	20.4	1367	25.5	20
M1342/32X64			64	53.0	16.0	848	19.2	1018	22.4	1187	25.6	1357	31.9	20
M1342/32X76			76	44.0	19.0	836	22.8	1003	26.6	1170	30.4	1338	38.6	20
M1342/32X89			89	37.2	22.3	830	26.7	993	31.2	1159	35.6	1324	46.5	10
M1342/32X102			102	32.0	25.5	816	30.6	979	35.7	1142	40.8	1306	53.2	10
M1342/32X115			115	29.0	28.8	835	34.5	1001	40.3	1167	46.0	1334	60.0	10
M1342/32X127			127	25.0	31.8	795	38.1	953	44.5	1111	50.8	1270	66.7	10
M1342/32X139			139	23.0	35.0	805	42.0	966	48.7	1119	56.0	1288	71.8	10
M1342/32X152			152	21.5	38.0	817	45.6	980	53.2	1144	60.8	1307	78.5	10
M1342/32X178			178	18.2	44.5	810	53.4	972	62.3	1134	71.2	1296	94.4	5
M1342/32X203			203	15.8	50.8	803	60.9	962	71.1	1123	81.2	1283	107	5
M1342/32X254			254	12.5	63.5	794	76.2	953	88.9	1111	102	1270	136	5
M1342/32X305	6.8	x 3.3	305	10.3	76.3	786	91.5	942	107	1100	122	1257	163	5
M1342/40X51	40	20	51	92.0	12.8	1178	15.3	1408	17.9	1642	20.4	1877	25.5	20
M1342/40X64			64	73.0	16.0	1168	19.2	1402	22.4	1635	25.6	1869	31.4	10
M1342/40X76			76	63.0	19.0	1197	22.8	1436	26.6	1676	30.4	1915	37.8	10
M1342/40X89			89	51.0	22.3	1137	26.7	1362	31.2	1589	35.6	1816	44.3	10
M1342/40X102			102	43.0	25.5	1097	30.6	1316	35.7	1535	40.8	1754	50.7	10
M1342/40X115			115	39.6	28.8	1140	34.5	1366	40.3	1594	46.0	1822	58.1	10
M1342/40X127			127	37.0	31.8	1177	38.1	1410	44.5	1645	50.8	1880	64.6	5
M1342/40X139			139	32.0	35.0	1120	42.0	1344	48.7	1557	56.0	1792	70.1	5
M1342/40X152			152	28.0	38.0	1064	45.6	1277	53.2	1490	60.8	1702	76.6	5
M1342/40X178			178	25.2	44.5	1121	53.4	1346	62.3	1570	71.2	1794	90.4	5
M1342/40X203			203	22.7	50.8	1153	60.9	1382	71.1	1613	81.2	1843	102	5
M1342/40X254			254	17.0	63.5	1080	76.2	1295	88.9	1511	102	1727	129	2
M1342/40X305	8.1	x 4.0	305	14.8	76.3	1129	91.5	1354	107	1580	122	1806	156	2
M1342/50X64	50	25	64	156	16.0	2496	19.2	2995	22.4	3494	25.6	3394	31.0	5
M1342/50X76			76	125	19.0	2375	22.8	2850	26.6	3325	30.4	3800	37.2	5
M1342/50X89			89	109	22.3	2431	26.7	2910	31.2	3395	35.6	3880	43.6	5
M1342/50X102			102	94.0	25.5	2397	30.6	2876	35.7	3356	40.8	3835	50.3	5
M1342/50X115			115	81.0	28.8	2333	34.5	2795	40.3	3260	46.0	3726	58.1	5
M1342/50X127			127	71.0	31.8	2258	38.1	2705	44.5	3156	50.8	3607	63.7	5
M1342/50X139			139	66.5	35.0	2328	42.0	2793	48.7	3235	56.0	3724	69.5	5
M1342/50X152			152	60.0	38.0	2280	45.6	2736	53.2	3192	60.8	3648	76.5	5
M1342/50X178			178	52.0	44.5	2314	53.4	2777	62.3	3240	71.2	3702	91.9	2
M1342/50X203			203	44.0	50.8	2235	60.9	2680	71.1	3126	81.2	3573	105	2
M1342/50X254			254	35.0	63.5	2223	76.2	2667	88.9	3112	102	3556	131	2
M1342/50X305	10.9	x 5.3	305	28.5	76.3	2175	91.5	2608	107	3042	122	3477	155	2
M1342/63X76	63	38	76	189	19.0	3591	22.8	4309	26.6	35027	30.4	5746	63.5	2
M1342/63X89			89	158	22.3	3523	26.7	4219	31.2	4922	35.6	5625	43.4	5
M1342/63X102			102	131	25.5	3341	30.6	4009	35.7	4677	40.8	5345	49.7	5
M1342/63X115			115	116	28.8	3341	34.5	4002	40.3	4669	46.0	5336	55.6	5
M1342/63X127			127	103	31.8	3275	38.1	3924	44.5	4578	50.8	5232	62.7	5
M1342/63X152			152	84.3	38.0	3203	45.6	3844	53.2	4485	60.8	5125	77.1	2
M1342/63X178			178	71.5	44.5	3182	53.4	3818	62.3	4454	71.2	5091	92.2	2
M1342/63X203			203	61.7	50.8	3134	60.9	3758	71.1	4384	81.2	5010	103	2
M1342/63X254			254	47.0	63.5	2985	76.2	3581	88.9	4178	102	4775	130	2
M1342/63X305	11.0	x 7.8	305	38.2	76.3	2915	91.5	3495	107	4078	122	4660	157	2

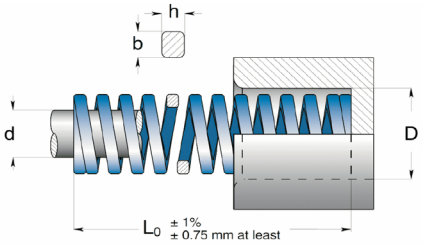
M1343 Mavi Kalıp Yayı - Orta Yük

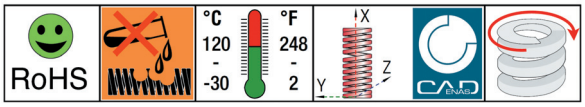
Rectangular Wire Mold Mechanical Springs

1 N = 0.1 daN = 0.102 kgf
Load (N) = R (N/mm) x Deflection (mm)



SPECIAL SPRINGS





Sipariş Kodu	D_H Hole Diameter b x h	D_d Rod Diameter	L_0 Free Length	± 10% Spring Constant	A 25% L_0 + 3.000.000		B 30% L_0 - 1.500.000		C 33.75% L_0 300 - 500.000		D 37.5% L_0 100 - 200.000		E approx. do not use	
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1343/10X25			25	16.0	6.3	101	7.5	120	8.4	135	9.4	150	10.2	50
M1343/10X32			32	13.0	8.0	104	9.6	125	10.8	140	12.0	156	14.2	50
M1343/10X38			38	11.9	9.5	113	11.4	136	12.8	153	14.3	170	16.8	50
M1343/10X44	**10**	5	44	10.3	11.0	113	13.2	136	14.9	153	16.5	170	19.4	50
M1343/10X51			51	8.9	12.8	114	15.3	136	17.2	153	19.1	170	23.4	25
M1343/10X64			64	7.5	16.0	120	19.2	144	21.6	162	24.0	180	28.2	25
M1343/10X76			76	5.3	19.0	101	22.8	121	25.7	136	28.5	151	34.2	25
M1343/10X305	1.9 x 1.3		305	1.6	76.3	122	91.5	146	103	165	114	183	134	10
M1343/13X25			25	30.0	6.3	189	7.5	225	8.4	253	9.4	282	11.9	50
M1343/13X32			32	24.8	8.0	198	9.6	238	10.8	268	12.0	298	16.2	50
M1343/13X38			38	21.4	9.5	203	11.4	244	12.8	274	14.3	306	18.7	50
M1343/13X44			44	18.5	11.0	204	13.2	244	14.9	275	16.5	305	21.3	25
M1343/13X51	**12.5**	6.3	51	15.5	12.8	198	15.3	237	17.2	267	19.1	296	25.6	25
M1343/13X64			64	12.1	16.0	194	19.2	232	21.6	261	24.0	290	32.4	25
M1343/13X76			76	10.2	19.0	194	22.8	233	25.7	262	28.5	291	39.0	25
M1343/13X89			89	8.4	22.3	187	26.7	224	30.0	252	33.4	281	45.9	20
M1343/13X102			102	6.3	25.5	161	30.6	193	34.4	217	38.3	241	52.3	10
M1343/10X305	2.5 x 1.5		305	2.1	76.3	160	91.5	192	103	216	114	240	153	10
M1343/16X25			25	49.4	6.3	311	7.5	377	8.4	417	9.4	464	10.5	50
M1343/16X32			32	37.1	8.0	297	9.6	356	10.8	401	12.0	445	13.2	50
M1343/16X38			38	33.9	9.5	322	11.4	386	12.8	435	14.3	485	17.2	25
M1343/16X44			44	30.0	11.0	330	13.2	396	14.9	446	16.5	495	19.4	25
M1343/16X51			51	26.4	12.8	338	15.3	404	17.2	454	19.1	504	24.2	25
M1343/16X64	**16**	8	64	20.5	16.0	328	19.2	394	21.6	443	24.0	492	29.2	25
M1343/16X76			76	17.8	19.0	328	22.8	406	25.7	457	28.5	507	36.3	20
M1343/16X89			89	15.2	22.3	338	26.7	406	30.0	457	33.4	508	41.7	20
M1343/16X102			102	13.5	25.5	339	30.6	413	34.4	465	38.3	517	48.9	20
M1343/16X115			115	11.8	28.8	344	34.5	407	38.8	458	43.1	509	53.1	10
M1343/16X305	3.2 x 2.0		305	4.8	76.3	366	91.5	439	103	494	114	549	142	10
M1343/20X25			25	98.0	6.3	617	7.5	735	8.4	827	9.4	921	10.5	50
M1343/20X32			32	72.6	8.0	581	9.6	697	10.8	784	12.0	871	13.9	50
M1343/20X38			38	56.0	9.5	532	11.4	638	12.8	718	14.3	801	16.6	25
M1343/20X44			44	47.5	11.0	523	13.2	627	14.9	705	16.5	784	18.8	25
M1343/20X51			51	41.7	12.8	534	15.3	638	17.2	718	19.1	796	23.1	25
M1343/20X64			64	32.3	16.0	517	19.2	620	21.6	698	24.0	775	27.5	25
M1343/20X76	**20**	10	76	25.1	19.0	477	22.8	572	25.7	644	28.5	715	33.8	25
M1343/20X89			89	22.0	22.3	491	26.7	587	30.0	661	33.4	735	39.7	20
M1343/20X102			102	19.8	25.5	505	30.6	606	34.4	682	38.3	758	47.3	20
M1343/20X115			115	18.1	28.8	521	34.5	624	38.8	703	43.1	780	52.5	10
M1343/20X127			127	16.6	31.8	528	38.1	632	42.9	712	47.6	790	56.9	10
M1343/20X139			139	15.1	35.0	529	42.0	634	46.9	708	52.5	793	62.1	10
M1343/20X152			152	13.2	38.0	500	45.6	600	51.3	677	57.0	750	67.6	10
M1343/20X305	4.1 x 2.4		305	6.1	76.3	465	91.5	558	103	628	114	698	143	10

Sipariş Kodu	D_H Hole Diameter b x h	D_d Rod Diameter	L_0 Free Length	±10% Spring Constant	A 25% L_0 + 3.000.000		B 30% L_0 - 1.500.000		C 33.75% L_0 300 - 500.000		D 37.5% L_0 100 - 200.000		E approx. do not use	
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1343/25X25			25	147	6.3	926	7.5	1103	8.4	1240	9.4	1382	10.2	50
M1343/25X32			32	118	8.0	944	9.6	1133	10.8	1274	12.0	1416	13.7	25
M1343/25X38			38	93.0	9.5	884	11.4	1060	12.8	1193	14.3	1330	15.7	25
M1343/25X44			44	80.8	11.0	889	13.2	1067	14.9	1200	16.5	1333	18.2	25
M1343/25X51			51	68.6	12.8	878	15.3	1050	17.2	1181	19.1	1310	21.7	25
M1343/25X64			64	53.0	16.0	848	19.2	1018	21.6	1145	24.0	1272	26.0	25
M1343/25X76	**25**	12.5	76	43.2	19.0	821	22.8	985	25.7	1108	28.5	1231	32.3	20
M1343/25X89			89	38.2	22.3	852	26.7	1020	30.0	1147	33.4	1276	38.0	20
M1343/25X102			102	33.0	25.5	842	30.6	1010	34.4	1136	38.3	1264	43.0	20
M1343/25X115			115	28.0	28.8	806	34.5	966	38.8	1087	43.1	1207	48.6	10
M1343/25X127			127	25.9	31.8	824	38.1	987	42.9	1110	47.6	1233	53.7	10
M1343/25X139			139	23.2	35.0	812	42.0	974	46.9	1088	52.5	1218	59.4	10
M1343/25X152			152	20.8	38.0	790	45.6	948	51.3	1067	57.0	1186	63.8	10
M1343/25X178			178	17.8	44.5	792	53.4	951	60.1	1069	66.8	1189	76.6	10
M1343/25X203			203	15.8	50.8	803	60.9	962	68.5	1082	76.1	1202	88.4	10
M1343/25X305	5.4 x 3.3		305	10.2	76.3	778	91.5	933	103	1050	114	1167	135	5
M1343/32X38			38	185	9.5	1778	11.4	2109	12.8	2373	14.3	2646	16.3	20
M1343/32X44			44	158	11.0	1738	13.2	2086	14.9	2346	16.5	2607	18.9	20
M1343/32X51			51	134	12.8	1715	15.3	2050	17.2	2306	19.1	2559	23.1	20
M1343/32X64			64	99.0	16.0	1584	19.2	1901	21.6	2138	24.0	2376	28.5	20
M1343/32X76			76	80.5	19.0	1530	22.8	1835	25.7	2065	28.5	2294	34.2	20
M1343/32X89			89	69.1	22.3	1541	26.7	1845	30.0	2076	33.4	2308	40.4	10
M1343/32X102			102	58.8	25.5	1499	30.6	1799	34.4	2024	38.3	2252	48.0	10
M1343/32X115	**32**	16	115	51.5	28.8	1483	34.5	1777	38.8	1999	43.1	2220	54.3	10
M1343/32X127			127	44.8	31.8	1425	38.1	1707	42.9	1920	47.6	2132	59.2	10
M1343/32X139			139	42.3	35.0	1481	42.0	1777	46.9	1984	52.5	2221	65.6	10
M1343/32X152			152	37.8	38.0	1436	45.6	1724	51.3	1939	57.0	2155	73.0	10
M1343/32X178			178	32.5	44.5	1446	53.4	1736	60.1	1952	66.8	2171	84.5	5
M1343/32X203			203	28.9	50.8	1468	60.9	1760	68.5	1980	76.1	2199	96.9	5
M1343/32X254			254	21.4	63.5	1359	76.2	1631	85.7	1835	95.3	2039	121	5
M1343/32X305	6.8 x 4.0		305	18.3	76.3	1396	91.5	1674	103	1884	114	2094	147	5
M1343/40X51			51	182	12.8	2330	15.3	2785	17.2	3130	19.1	3476	21.4	20
M1343/40X64			64	140	16.0	2240	19.2	2688	21.6	3024	24.0	3360	26.8	10
M1343/40X76			76	108	19.0	2052	22.8	2462	25.7	2770	28.5	3078	32.7	10
M1343/40X89			89	90.7	22.3	2023	26.7	2422	30.0	2724	33.4	3029	39.0	10
M1343/40X102			102	81.0	25.5	2066	30.6	2479	34.4	2788	38.3	3102	44.1	10
M1343/40X115			115	71.8	28.8	2068	34.5	2477	38.8	2787	43.1	3095	50.6	10
M1343/40X127	**40**	20	127	62.7	31.8	1994	38.1	2389	42.9	2687	47.6	2985	55.9	5
M1343/40X139			139	57.5	35.0	2013	42.0	2415	46.9	2697	52.5	3019	61.8	5
M1343/40X152			152	51.6	38.0	1961	45.6	2353	51.3	2647	57.0	2941	67.5	5
M1343/40X178			178	44.1	44.5	1962	53.4	2355	30.1	2649	66.8	2946	77.2	5
M1343/40X203			203	36.7	50.8	1864	60.9	2235	38.5	2514	76.1	2793	91.8	5
M1343/40X254			254	30.1	63.5	1911	76.2	2294	85.7	2580	95.3	2869	113	2
M1343/40X305	8.2 x 5.8		305	24.6	76.3	1877	91.5	2251	103	2532	114	2814	138	2
M1343/50X64			64	209	16.0	3344	19.2	4013	21.6	4514	24.0	5016	28.2	5
M1343/50X76			76	168	19.0	3192	22.8	3830	25.7	4309	28.5	4788	34.9	5
M1343/50X89			89	140	22.3	31222	26.7	3738	30.0	4205	33.4	4676	39.2	5
M1343/50X102			102	119	25.5	3035	30.6	3641	34.4	4097	38.3	4558	47.3	5
M1343/50X115			115	106	28.8	3053	34.5	3657	38.8	4114	43.1	4569	52.6	5
M1343/50X127	**50**	25	127	97.0	31.8	3085	38.1	3696	42.9	4158	47.6	4317	59.8	5
M1343/50X139			139	87.0	35.0	3045	42.0	3654	46.9	4081	52.5	4568	65.1	5
M1343/50X152			152	80.0	38.0	3040	45.6	3648	51.3	4104	57.0	4560	70.8	5
M1343/50X178			178	69.5	44.5	3093	53.4	3711	60.1	4175	66.8	4643	84.2	2
M1343/50X203			203	59.8	50.8	3038	60.9	3642	68.5	4097	76.1	4551	96.5	2
M1343/50X229			229	50.9	57.3	2917	68.7	3497	77.3	3934	85.9	4372	108	2
M1343/50X254			254	43.9	63.5	2788	76.2	3345	85.7	3763	95.3	4184	122	2
M1343/50X305	11.1 x 5.8		305	38.6	76.3	2945	91.5	3532	103	3973	114	4416	147	2
M1343/63X76			76	312	19.0	5928	22.8	7114	25.7	8003	28.5	8892	30.7	5
M1343/63X89			89	260	22.3	5798	26.7	6942	30.0	7810	33.4	8684	36.5	5
M1343/63X102			102	221	25.5	5636	30.6	6763	34.4	7608	38.3	8464	43.6	5
M1343/63X115			115	187	28.8	5386	34.5	6452	38.8	7258	43.1	8060	48.9	5
M1343/63X127			127	168	31.8	5342	38.1	6401	42.9	7201	47.6	7997	54.2	2
M1343/63X152	**63**	38	152	136	38.0	5168	45.6	6202	51.3	6977	57.0	7752	65.7	2
M1343/63X178			178	114	44.5	5073	53.4	6088	60.1	6849	66.8	7615	76.5	2
M1343/63X203			203	100	50.8	5080	60.9	6090	68.5	6851	76.1	7610	88.0	2
M1343/63X229			229	89.2	57.3	5111	68.7	6128	77.3	6894	85.9	7662	104	2
M1343/63X254			254	78.4	63.5	4978	76.2	5974	85.7	6721	95.3	7472	112	
M1343/63X305	11.5 x 9.1		305	64.7	76.3	4937	91.5	5920	103	6660	114	7402	134	

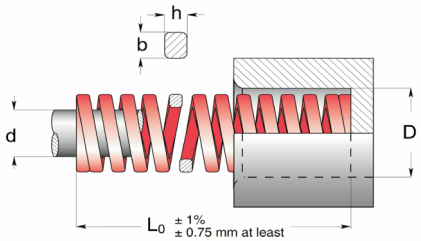
M1344 Kırmızı Kalıp Yayı - Ağır Yük

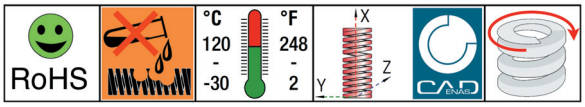
Rectangular Wire Mold Mechanical Springs

1 N = 0.1 daN = 0.102 kgf
Load (N) = R (N/mm) x Deflection (mm)



SPECIAL SPRINGS





Sipariş Kodu	D_H Hole Diameter b x h		D_d Rod Diameter	L_0 Free Length	± 10% Spring Constant	A 25% L_0 + 3.000.000		B 30% L_0 - 1.500.000		C 33.75% L_0 300 - 500.000		D 37.5% L_0 100 - 200.000		E approx. do not use	
	mm	mm		mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1344/10X25				25	22.1	5.0	111	6.3	139	6.9	152	7.5	166	9.2	50
M1344/10X32				32	17.5	6.4	112	8.0	140	8.8	154	9.6	168	12.1	50
M1344/10X38				38	17.1	7.6	130	9.5	162	10.5	179	11.4	195	13.2	50
M1344/10X44	**10**		5	44	15.0	8.8	132	11.0	165	12.1	182	13.2	198	15.1	50
M1344/10X51				51	12.8	10.2	131	12.8	164	14.0	180	15.3	196	19.5	25
M1344/10X64				64	10.7	12.8	137	16.0	171	17.6	188	19.2	205	21.8	25
M1344/10X76				76	7.5	15.2	114	19.0	143	20.9	157	22.8	171	27.9	25
M1344/10X305	1.9	x 1.5		305	2.1	61.0	128	76.3	160	83.9	176	91.5	192	127	10
M1344/13X25				25	42.1	5.0	211	6.3	265	6.9	289	7.5	316	9.8	50
M1344/13X32				32	33.2	6.4	212	8.0	266	8.8	292	9.6	319	13.6	50
M1344/13X38				38	29.3	7.6	223	9.5	278	10.5	306	11.4	334	14.6	50
M1344/13X44				44	24.6	8.8	216	11.0	271	12.1	298	13.2	325	18.1	25
M1344/13X51	**12.5**		6.3	51	19.6	10.2	200	12.8	251	14.0	275	15.3	300	22.3	25
M1344/13X64				64	15.0	12.8	192	16.0	240	17.6	264	19.2	288	27.3	25
M1344/13X76				76	13.2	15.2	201	19.0	251	20.9	276	22.8	301	33.1	25
M1344/13X89				89	11.4	17.8	203	22.3	254	24.5	279	26.7	304	38.9	20
M1344/13X102				102	8.4	20.4	171	25.5	214	28.1	236	30.6	257	43.8	10
M1344/10X305	2.4	x 1.9		305	2.8	61.0	171	76.3	214	83.9	235	91.5	256	140	10
M1344/16X25				25	75.7	5.0	379	6.3	477	6.9	520	7.5	568	8.4	50
M1344/16X32				32	52.8	6.4	337	8.0	422	8.8	465	9.6	507	10.5	50
M1344/16X38				38	48.5	7.6	369	9.5	461	10.5	507	11.4	553	13.6	25
M1344/16X44				44	42.8	8.8	377	11.0	471	12.1	518	13.2	565	15.9	25
M1344/16X51				51	37.1	10.2	378	12.8	475	14.0	520	15.3	568	18.9	25
M1344/16X64	**16**		8	64	30.3	12.8	388	16.0	485	17.6	533	19.2	582	24.9	25
M1344/16X76				76	25.7	15.2	391	19.0	488	20.9	537	22.8	586	29.2	20
M1344/16X89				89	21.7	17.8	386	22.3	484	24.5	531	26.7	579	34.5	20
M1344/16X102				102	19.3	20.4	394	25.5	492	28.1	541	30.6	591	39.1	20
M1344/16X115				115	15.7	23.0	361	28.8	452	31.6	497	34.5	542	44.0	10
M1344/16X305	3.1	x 2.5		305	7.1	61.0	433	76.3	542	83.9	596	91.5	650	104	10
M1344/20X25				25	216	5.0	1080	6.3	1361	6.9	1485	7.5	1620	8.3	50
M1344/20X32				32	168	6.4	1075	8.0	1344	8.8	1478	9.6	1613	10.9	50
M1344/20X38				38	129	7.6	980	9.5	1226	10.5	1348	11.4	1471	12.5	25
M1344/20X44				44	112	8.8	986	11.0	1232	12.1	1355	13.2	1478	15.0	25
M1344/20X51				51	94.0	10.2	959	12.8	1203	14.0	1318	15.3	1438	17.6	25
M1344/20X64				64	72.1	12.8	923	16.0	1154	17.6	1269	19.2	1384	22.6	25
M1344/20X76	**20**		10	76	59.7	15.2	907	19.0	1134	20.9	1248	22.8	1361	27.5	25
M1344/20X89				89	50.5	17.8	899	22.3	1126	24.5	1236	26.7	1348	31.7	20
M1344/20X102				102	44.2	20.4	902	25.5	1127	28.1	1240	30.6	1353	37.5	20
M1344/20X115				115	38.4	23.0	883	28.8	1106	31.6	1214	34.5	1325	42.6	10
M1344/20X127				127	34.1	25.4	866	31.8	1084	34.9	1191	38.1	1299	45.5	10
M1344/20X139				139	31.0	28.0	868	35.0	1085	38.2	1185	42.0	1302	50.1	10
M1344/20X152				152	28.2	30.4	857	38.0	1072	41.8	1179	45.6	1286	55.8	10
M1344/20X305	4.0	x 3.3		305	15.0	61.0	915	76.3	1145	83.9	1258	91.5	1373	114	10

Sipariş Kodu	D_H Hole Diameter b x h	D_d Rod Diameter	L_0 Free Length	±10% Spring Constant	A 25% L_0 + 3.000.000		B 30% L_0 - 1.500.000		C 35% L_0 300 - 500.000		D 40% L_0 100 - 200.000		E approx. do not use	
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1344/25X25			25	375	5.0	1875	6.3	2363	6.9	2578	7.5	2813	8.5	50
M1344/25X32			32	297	6.4	1901	8.0	2376	8.8	2614	9.6	2851	11.0	25
M1344/25X38			38	219	7.6	1664	9.5	2081	10.5	2289	11.4	2497	12.6	25
M1344/25X44			44	187	8.8	1646	11.0	2057	12.1	2263	13.2	2468	14.8	25
M1344/25X51			51	156	10.2	1591	12.8	1997	14.0	2188	15.3	2387	17.9	25
M1344/25X64			64	123	12.8	1574	16.0	1968	17.6	2165	19.2	2362	23.1	25
M1344/25X76	**25**	12.5	76	99.0	15.2	1505	19.0	1881	20.9	2069	22.8	2257	26.3	20
M1344/25X89			89	84.0	17.8	1495	22.3	1873	24.5	2056	26.7	2243	30.5	20
M1344/25X102			102	73.0	20.4	1489	25.5	1862	28.1	2048	30.6	2234	37.3	20
M1344/25X115			115	65.0	23.0	1495	28.8	1872	31.6	2056	34.5	2243	41.9	10
M1344/25X127			127	57.7	25.4	1466	31.8	1835	34.9	2015	38.1	2198	46.2	10
M1344/25X139			139	52.7	28.0	1476	35.0	1845	38.2	2014	42.0	2213	49.3	10
M1344/25X152			152	47.8	30.4	1453	38.0	1816	41.8	1998	45.6	2180	55.7	10
M1344/25X178			178	41.0	35.6	1460	44.5	1825	49.0	2007	53.4	2189	65.1	10
M1344/25X203			203	35.8	40.6	1453	50.8	1819	55.8	1999	60.9	2180	74.5	10
M1344/25X305	5.5 x 4.2		305	22.9	61.0	1397	76.3	1747	83.9	1921	91.5	2095	110	5
M1344/32X38			38	388	7.6	2949	9.5	3686	10.5	4055	11.4	4423	12.5	20
M1344/32X44			44	324	8.8	2851	11.0	3564	12.1	3920	13.2	4277	14.9	20
M1344/32X51			51	272	10.2	2774	12.8	3482	14.0	3815	15.3	4162	17.8	20
M1344/32X64			64	212	12.8	2714	16.0	3392	17.6	3731	19.2	4070	22.4	20
M1344/32X76			76	172	15.2	2614	19.0	3268	20.9	3595	22.8	3922	26.1	20
M1344/32X89			89	141	17.8	2510	22.3	3144	24.5	3451	26.7	3765	30.8	10
M1344/32X102			102	122	20.4	2489	25.5	3111	28.1	3422	30.6	3733	36.8	10
M1344/32X115	**32**	16	115	107	23.0	2461	28.8	3082	31.6	3384	34.5	3692	41.4	10
M1344/32X127			127	93.0	25.4	2362	31.8	2957	34.9	3248	38.1	3543	44.4	10
M1344/32X139			139	86.0	28.0	2408	35.0	3010	38.2	3287	42.0	3612	48.5	10
M1344/32X152			152	78.0	30.4	2371	38.0	2964	41.8	3260	45.6	3557	54.8	10
M1344/32X178			178	67.2	35.6	2392	44.5	2990	49.0	3289	53.4	3588	63.6	5
M1344/32X203			203	59.1	40.6	2399	50.8	3002	55.8	3299	60.9	3599	72.5	5
M1344/32X254			254	46.4	50.8	2357	63.5	2946	69.9	3241	76.2	3536	92.8	5
M1344/32X305	7.1 x 5.4		305	38.0	61.0	2318	76.3	2899	83.9	3187	91.5	3477	112	5
M1344/40X51			51	350	10.2	3570	12.8	4480	14.0	4909	15.3	5355	17.0	20
M1344/40X64			64	269	12.8	344	16.0	4304	17.6	4734	19.2	5165	21.9	10
M1344/40X76			76	219	15.2	3329	19.0	4161	20.9	4577	22.8	4993	26.7	10
M1344/40X89			89	190	17.8	3382	22.3	4237	24.5	4650	26.7	5073	31.3	10
M1344/40X102			102	163	20.4	3325	25.5	4157	28.1	4572	30.6	4988	37.1	10
M1344/40X115			115	142	23.0	3266	28.8	4090	31.6	4491	34.5	4899	41.0	10
M1344/40X127	**40**	20	127	128	25.4	3251	31.8	4070	34.9	4470	38.1	4877	46.5	5
M1344/40X139			139	115	28.0	3220	35.0	4025	38.2	4396	42.0	4830	53.1	5
M1344/40X152			152	105	30.4	3192	38.0	3990	41.8	4389	45.6	4788	56.1	5
M1344/40X178			178	89	35.6	3168	44.5	3961	49.0	4357	53.4	4753	67.4	5
M1344/40X203			203	77	40.6	3126	50.8	3912	55.8	4299	60.9	4689	76.2	5
M1344/40X254			254	61	50.8	3099	63.5	3874	69.9	4261	76.2	4658	96.2	2
M1344/40X305	8.4 x 6.2		305	51	61.0	3111	76.3	3891	83.9	4278	91.5	4667	115	2
M1344/50X64			64	413	12.8	5286	16.0	6608	17.6	7269	19.2	7930	22.4	5
M1344/50X76			76	339	15.2	5153	19.0	6441	20.9	7085	22.8	7729	26.5	5
M1344/50X89			89	288	17.8	5126	22.3	6422	24.5	7049	26.7	7690	31.5	5
M1344/50X102			102	245	20.4	4998	25.5	6248	28.1	6872	30.6	7497	37.6	5
M1344/50X115			115	215	23.0	4945	28.8	6192	31.6	6799	34.5	7418	42.7	5
M1344/50X127	**50**	25	127	192	25.4	4877	31.8	6106	34.9	6706	38.1	7315	47.5	5
M1344/50X139			139	168	28.0	4704	35.0	5880	38.2	6422	42.0	7056	51.8	5
M1344/50X152			152	154	30.4	4682	38.0	5852	41.8	6437	45.6	7022	57.8	5
M1344/50X178			178	134	35.6	4770	44.5	5963	49.0	6559	53.4	7156	68.5	2
M1344/50X203			203	117	40.6	4750	50.8	5944	55.8	6532	60.9	7125	77.6	2
M1344/50X254			254	89	50.8	4521	63.5	5652	69.9	3217	76.2	6782	97.9	2
M1344/50X305	11.1 x 7.6		305	73	61.0	4453	76.3	5570	83.9	3123	91.5	6680	121	2
M1344/63X76			76	618	15.2	9394	19.0	11742	20.9	12916	22.8	14090	24.7	2
M1344/63X89			89	515	17.8	9167	22.3	11485	24.5	12605	26.7	13751	30.0	5
M1344/63X102			102	438	20.4	8935	25.5	11169	28.1	12286	30.6	13403	35.1	5
M1344/63X115			115	370	23.0	8510	23.8	10656	31.6	11701	34.5	12765	37.5	5
M1344/63X127	**63**	38	127	333	25.4	8458	31.8	10589	34.9	11630	38.1	12687	45.9	5
M1344/63X152			152	269	30.4	8478	38.0	10222	41.8	11244	45.6	12266	56.5	2
M1344/63X178			178	226	35.6	8046	44.5	10057	49.0	11063	53.4	12068	66.8	2
M1344/63X203			203	198	40.6	8039	50.8	10058	55.8	11053	60.9	12058	78.8	2
M1344/63X254			254	155	50.8	7874	63.5	9843	69.9	10827	76.2	11811	102	2
M1344/63X305	11.6 x 12.3		305	128	61.0	7808	76.3	9766	83.9	10736	91.5	11712	122	2

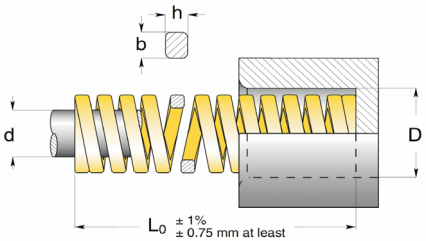
M1345 Sarı Kalıp Yayı - Ekstra Ağır Yük

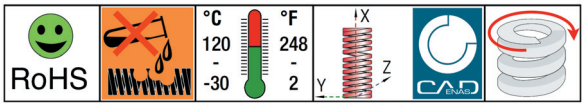
Rectangular Wire Mold Mechanical Springs

1 N = 0.1 daN = 0.102 kgf
Load (N) = R (N/mm) x Deflection (mm)



SPECIAL SPRINGS





Sipariş Kodu	DH Hole Diameter	Dd Rod Diameter	L0 Free Length	± 10% Spring Constant	A 17% L0		B 20% L0		C 22.5% L0		D 25% L0		E approx.	
	b x h				+ 3.000.000		- 1.500.000		300 - 500.000		100 - 200.000		do not use	
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1345/10X25	10	5	25	36.8	4.3	158	5.0	184	5.6	207	6.3	232	7.7	50
M1345/10X32			32	27.9	5.4	151	6.4	179	7.2	201	8.0	223	10.6	50
M1345/10X38			38	23.7	6.5	154	7.6	180	8.6	203	9.5	225	12.6	50
M1345/10X44			44	19.2	7.5	144	8.8	169	9.9	190	11.0	211	13.8	50
M1345/10X51			51	16.5	8.7	144	10.2	168	11.5	189	12.8	211	16.2	25
M1345/10X64			64	13.2	10.9	144	12.8	169	14.4	190	16.0	211	20.4	25
M1345/10X76			76	10.9	12.9	141	15.2	166	17.1	186	19.0	207	25.2	25
M1345/10X305	1.9 x 1.6		305	2.6	51.9	135	61.0	159	68.6	178	76.3	198	111	10
M1345/13X25	12.5	6.3	25	58.5	4.3	252	5.0	293	5.6	329	6.3	369	8.1	50
M1345/13X32			32	43.9	5.4	237	6.4	281	7.2	316	8.0	351	9.9	50
M1345/13X38			38	36.0	6.5	234	7.6	274	8.6	308	9.5	342	12.9	50
M1345/13X44			44	30.3	7.5	227	8.8	267	9.9	300	11.0	333	14.1	25
M1345/13X51			51	26.2	8.7	228	10.2	267	11.5	31	12.8	335	17.4	25
M1345/13X64			64	21.2	10.9	231	12.8	271	14.4	305	16.0	339	21.0	25
M1345/13X76			76	17.1	12.9	221	15.2	260	17.1	292	19.0	325	26.4	25
M1345/13X89			89	14.5	15.1	219	17.8	258	20.0	290	22.3	323	31.5	20
M1345/13X102			102	12.7	17.3	220	20.4	259	23.0	291	25.5	324	36.0	10
M1345/10X305	2.6 x 2.0		305	4.3	51.9	223	61.0	262	68.6	295	76.3	328	111	10
M1345/16X25	16	8	25	118	4.3	507	5.0	590	5.6	664	6.3	743	8.5	50
M1345/16X32			32	89.0	5.4	481	6.4	570	7.2	641	8.0	712	11.0	50
M1345/16X38			38	72.1	6.5	469	7.6	548	8.6	616	9.5	685	13.2	25
M1345/16X44			44	60.9	7.5	457	8.8	536	9.9	603	11.0	670	14.7	25
M1345/16X51			51	52.3	8.7	455	10.2	533	11.5	600	12.8	669	17.7	25
M1345/16X64			64	41.2	10.9	449	12.8	527	14.4	593	16.0	659	21.9	25
M1345/16X76			76	34.1	12.9	440	15.2	518	17.1	583	19.0	648	27.8	20
M1345/16X89			89	29.5	15.1	445	17.8	525	20.0	591	22.3	658	31.2	20
M1345/16X102			102	25.6	17.3	443	20.4	522	23.0	588	25.5	653	37.9	20
M1345/16X115			115	22.4	19.6	439	23.0	515	25.9	580	28.8	645	44.5	10
M1345/16X305	3.2 x 2.9		305	84	51.9	436	61.0	512	68.6	576	76.3	641	113	10
M1345/20X25	20	10	25	293	4.3	1260	5.0	1465	5.6	1648	6.3	1846	6.9	50
M1345/20X32			32	224	5.4	1210	6.4	1434	7.2	1613	8.0	1792	9.4	50
M1345/20X38			38	177	6.5	1151	7.6	1345	8.6	1513	9.5	1682	12.0	25
M1345/20X44			44	149	7.5	1118	8.8	1311	9.9	1475	11.0	1639	13.5	25
M1345/20X51			51	128	8.7	1114	10.2	1306	11.5	1469	12.8	1638	16.2	25
M1345/20X64			64	99.0	10.9	1079	12.8	1267	14.4	1426	16.0	1584	21.2	25
M1345/20X76			76	81.7	12.9	1054	15.2	1242	20.0	1397	19.0	1552	24.7	25
M1345/20X89			89	69.5	15.1	1049	17.8	1237	23.0	1392	22.3	1550	28.8	20
M1345/20X102			102	60.6	17.3	1048	20.4	1236	25.9	1391	25.5	1545	34.8	20
M1345/20X115			115	53.0	19.6	1039	23.0	1219	28.6	1371	28.8	1526	39.0	10
M1345/20X127			127	47.5	21.6	1026	25.4	1207	31.3	1357	31.8	1511	43.0	10
M1345/20X139			139	43.0	23.8	1023	28.0	1204	34.2	1345	35.0	1505	45.3	10
M1345/20X152			152	39.0	25.8	1006	30.4	1186	68.6	1334	38.0	1482	50.4	10
M1345/20X305	4.1 x 3.8		305	21.2	51.9	1100	61.0	1293		1455	76.3	1618	103	10

Sipariş Kodu	D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	±10% Spring Constant	A 17% L_0 + 3.000.000		B 20% L_0 - 1.500.000		C 22.5% L_0 300 - 500.000		D 25% L_0 100 - 200.000		E approx. do not use	
	b x h													
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1345/25X25			25	459	4.3	1974	5.0	2295	5.6	2582	6.3	2892	7.3	50
M1345/25X32			32	374	5.4	2020	6.4	2394	7.2	2693	8.0	2992	10.7	25
M1345/25X38			38	300	6.5	1950	7.6	2280	8.6	2580	9.5	2850	12.0	25
M1345/25X44			44	244	7.5	1830	8.8	2147	9.9	2416	11.0	2684	14.4	25
M1345/25X51			51	208	8.7	1810	10.2	2122	11.5	2392	12.8	2662	17.4	25
M1345/25X64			64	161	10.9	1755	12.8	2061	14.4	2318	16.0	2576	21.4	25
M1345/25X76	**25**	12.5	76	131	12.9	1690	15.2	1991	17.1	2240	19.0	2489	26.9	20
M1345/25X89			89	111	15.1	1676	17.8	1976	20.0	2220	22.3	2475	30.9	20
M1345/25X102			102	96.3	17.3	1666	20.4	1965	23.0	2210	25.5	2456	36.7	20
M1345/25X115			115	85.7	19.6	1680	23.0	1971	25.9	2217	28.8	2468	40.3	10
M1345/25X127			127	76.3	21.6	1648	25.4	1938	28.6	2180	31.8	2426	45.1	10
M1345/25X139			139	66.0	23.8	1571	28.0	1848	31.3	2066	35.0	2310	47.6	10
M1345/25X152			152	63.5	25.8	1638	30.4	1930	34.2	2172	38.0	2413	53.5	10
M1345/25X178			178	53.9	30.3	1633	35.6	1919	40.1	2159	44.5	2399	63.9	10
M1345/25X203			203	47.0	34.5	1622	40.6	1908	45.7	2147	50.8	2388	70.2	10
M1345/25X305	5.4 x 4.6		305	30.9	51.9	1604	61.0	1885	68.6	2121	76.3	2358	110	5
M1345/32X38			38	480	6.5	3120	7.6	3648	8.6	4128	9.5	4560	11.4	20
M1345/32X44			44	390	7.5	2925	8.8	3432	9.9	3861	11.0	4290	13.7	20
M1345/32X51			51	320	8.7	2784	10.2	3264	11.5	3680	12.8	4096	15.6	20
M1345/32X64			64	269	10.9	2934	12.8	3446	14.4	3876	16.0	4307	20.0	20
M1345/32X76			76	219	12.9	2825	15.2	3329	17.1	3745	19.0	4161	24.4	20
M1345/32X89			89	180	15.1	2723	17.8	3209	20.0	3611	22.3	4021	29.7	10
M1345/32X102			102	155	17.3	2682	20.4	3162	23.0	3557	25.5	3953	35.1	10
M1345/32X115	**32**	16	115	140	19.6	2744	23.0	3220	25.9	3626	28.8	4032	39.0	10
M1345/32X127			127	124	21.6	2678	25.4	3150	28.6	3543	31.8	3943	42.8	10
M1345/32X139			139	112	23.8	2673	28.0	3144	31.3	3512	35.0	3931	48.6	10
M1345/32X152			152	102	25.8	2632	30.4	3101	34.2	3488	38.0	3876	52.4	10
M1345/32X178			178	88.2	30.3	2672	35.6	3140	40.1	3532	44.5	3925	60.9	5
M1345/32X203			203	76.0	34.5	2622	40.6	3086	45.7	3471	50.8	3861	69.2	5
M1345/32X254			254	60.8	43.2	2627	50.8	3089	57.2	3475	63.5	3861	88.1	5
M1345/32X305	7.3 x 5.9		305	49.0	51.9	2543	61.0	2989	68.6	3363	76.3	3739	104	5
M1345/40X51			51	628	8.7	5464	10.2	6406	11.5	7206	12.8	8038	15.0	20
M1345/40X64			64	487	10.9	5308	12.8	6234	14.4	7013	16.0	7792	19.5	10
M1345/40X76			76	379	12.9	4889	15.2	5761	17.1	6481	19.0	7201	23.3	10
M1345/40X89			89	321	15.1	4847	17.8	5714	20.0	6428	22.3	7158	26.7	10
M1345/40X102			102	281	17.3	4861	20.4	5732	23.0	6449	25.5	5166	33.8	10
M1345/40X115			115	245	19.6	4802	23.0	5635	25.9	6339	28.8	7056	36.2	10
M1345/40X127	**40**	20	127	221	21.6	4774	25.4	5613	28.6	6315	31.8	7028	40.7	5
M1345/40X139			139	195	23.8	4641	28.0	5460	31.3	6103	35.0	6825	44.5	5
M1345/40X152			152	168	25.8	4334	30.4	5107	34.2	5746	38.0	6384	49.6	5
M1345/40X178			178	150	30.3	4545	35.6	5340	40.1	6015	44.5	6675	59.9	5
M1345/40X203			203	132	34.5	4554	40.6	5359	45.7	6029	50.8	6706	67.1	5
M1345/40X254			254	107	43.2	4622	50.8	5436	57.2	6115	63.5	6795	86.3	2
M1345/40X305	8.4 x 7.5		305	87.8	51.9	4557	61.0	5356	68.6	6025	76.3	6699	104	2
M1345/50X64			64	709	10.9	7728	12.8	9075	14.4	10210	16.0	11344	19.3	5
M1345/50X76			76	572	12.9	7379	15.2	8694	17.1	9781	19.0	10868	24.2	5
M1345/50X89			89	475	15.1	7173	17.8	8455	20.0	9512	22.3	10593	28.0	5
M1345/50X102			102	405	17.3	7007	20.4	8262	23.0	9295	25.5	10328	33.5	5
M1345/50X115			115	352	19.6	6899	23.0	8096	25.9	9108	28.8	10138	38.6	5
M1345/50X127	**50**	25	127	316	21.6	6826	25.4	8026	28.6	9030	31.8	10049	41.4	5
M1345/50X139			139	289	23.8	6878	28.0	8092	31.3	9046	35.0	10115	47.3	5
M1345/50X152			152	239	25.8	6166	30.4	7266	34.2	8174	38.0	9082	50.2	5
M1345/50X178			178	215	30.3	6515	35.6	7654	40.1	8611	44.5	9568	61.1	2
M1345/50X203			203	187	34.5	6452	40.6	7592	45.7	8541	50.8	9500	67.7	2
M1345/50X254			254	153	43.2	6610	50.8	7772	57.2	8744	63.5	9716	87.0	2
M1345/50X305	11.5 x 9.0		305	127	51.9	6591	61.0	7747	68.6	8715	76.3	9690	104	2
M1345/63X76			76	952	12.9	12280	15.2	14470	-	-	-	-	15.5	2
M1345/63X89			89	819	15.1	12360	17.8	14580	-	-	-	-	20.0	5
M1345/63X102			102	700	17.3	12110	20.4	14280	23.0	16065	25.5	17850	30.7	5
M1345/63X115			115	620	19.6	12152	23.0	14260	25.9	16043	23.8	17860	34.9	5
M1345/63X127	**63**	38	127	565	21.6	12204	25.4	14351	28.6	16145	31.8	17967	38.0	5
M1345/63X152			152	458	25.8	11816	30.4	13923	34.2	15664	38.0	17404	47.2	2
M1345/63X178			178	384	30.3	11635	35.6	13670	40.1	15379	44.5	17088	55.8	2
M1345/63X203			203	337	34.5	11627	40.6	13682	45.7	15392	50.8	17120	64.8	2
M1345/63X254			254	263	43.2	11362	50.8	13360	57.2	15030	63.5	16701	86.7	2
M1345/63X305	11.6 x 14.9		305	218	51.9	11314	61.0	13298	68.6	14960	76.3	16633	106	2

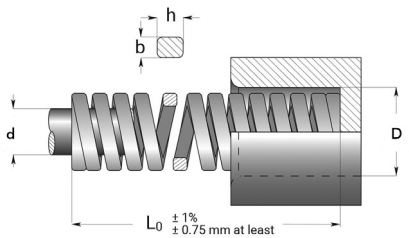
M1346 Gri Kalıp Yayı - Ultra Ağır Yük

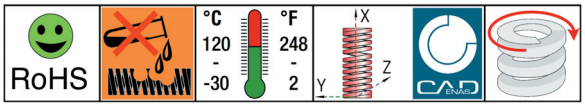
Rectangular Wire Mold Mechanical Springs

1 N = 0.1 daN = 0.102 kgf
Load (N) = R (N/mm) x Deflection (mm)



SPECIAL SPRINGS





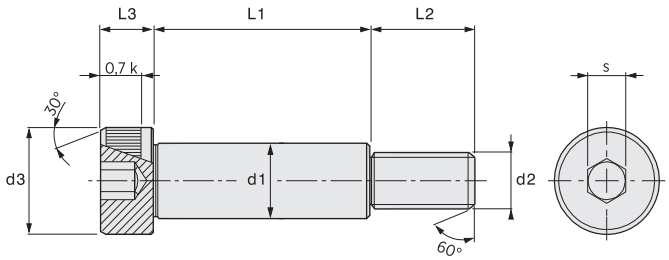
Sipariş Kodu	D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	± 10% Spring Constant	A 10% L_0 + 3.000.000		B 12% L_0 - 1.500.000		C 13.5% L_0 300 - 500.000		D 15% L_0 100 - 200.000		E approx. do not use	
	b x h													
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1346/10X25			25	167	2.5	418	3.0	501	3.4	564	3.8	626	5.9	50
M1346/10X32			32	130	3.2	416	3.8	499	4.3	562	4.8	624	7.5	50
M1346/10X38			38	105	3.8	399	4.6	479	5.1	539	5.7	599	8.2	50
M1346/10X44	**10**	5	44	86	4.4	378	5.3	454	5.9	511	6.6	568	11.0	50
M1346/10X51			51	79	5.1	403	6.1	483	6.9	544	7.7	604	12.5	25
M1346/10X64			64	62	6.4	397	7.7	476	8.6	536	9.6	595	15.8	25
M1346/10X76			76	51	7.6	388	9.1	465	10.3	523	11.4	581	19.0	25
M1346/10X305	1.9 x 1.6		305	11.5	30.5	351	36.6	421	41.2	474	45.8	526	89.0	10
M1346/13X25			25	288	2.5	720	3.0	864	3.4	972	3.8	1080	5.6	50
M1346/13X32			32	216	3.2	691	3.8	829	4.3	933	4.8	1037	7.3	50
M1346/13X38			38	176	3.8	669	4.6	803	5.1	903	5.7	1003	9.2	50
M1346/13X44			44	149	4.4	656	5.3	787	5.9	885	6.6	983	11.1	25
M1346/13X51	**12.5**	6.3	51	128	5.1	653	6.1	783	6.9	881	7.7	979	12.6	25
M1346/13X64			64	100	6.4	640	7.7	768	8.6	864	9.6	960	16.1	25
M1346/13X76			76	84	7.6	638	9.1	766	10.3	862	11.4	958	19.3	25
M1346/13X89			89	71	8.9	632	10.7	758	12.0	853	13.4	948	23.3	20
M1346/13X102			102	61	10.2	622	12.2	747	13.8	840	15.3	933	26.9	10
M1346/13X305	2.6 x 2.0		305	22	30.5	671	36.6	805	41.2	906	45.8	1007	94.0	10
M1346/16X32			32	449	3.2	1437	3.8	1724	4.3	1940	4.8	2155	6.6	50
M1346/16X38			38	363	3.8	1379	4.6	1655	5.1	1862	5.7	2069	8.1	25
M1346/16X44			44	309	4.4	1360	5.3	1632	5.9	1835	6.6	2039	10.1	25
M1346/16X51			51	256	5.1	1306	6.1	1567	6.9	1763	7.7	1958	11.3	25
M1346/16X64			64	203	6.4	1299	7.7	1559	8.6	1754	9.6	1949	14.3	25
M1346/16X76	**16**	8	76	166	7.6	1262	9.1	1514	10.3	1703	11.4	1892	18.0	20
M1346/16X89			89	139	8.9	1237	10.7	1485	12.0	1670	13.4	1856	20.5	20
M1346/16X102			102	114	10.2	1163	12.2	1395	13.8	1570	15.3	1744	24.3	20
M1346/16X115			115	105	11.5	1208	13.8	1449	15.5	1630	17.3	1811	27.0	10
M1346/16X127			127	94	12.7	1194	15.2	1433	17.1	1612	19.1	1791	31.5	10
M1346/16X152			152	78	15.2	1186	18.2	1423	20.5	1601	22.8	1778	38.0	10
M1346/16X305	3.2 x 2.9		305	38.8	30.5	1183	36.6	1420	41.2	1598	45.8	1775	77.2	10
M1346/20X44			44	452	4.4	1989	5.3	2387	5.9	2685	6.6	2983	8.9	25
M1346/20X51			51	378	5.1	1928	6.1	2313	6.9	2603	7.7	2892	10.6	25
M1346/20X64			64	301	6.4	1926	7.7	2312	8.6	2601	9.6	2890	13.8	25
M1346/20X76			76	247	7.6	1877	9.1	2253	10.3	2534	11.4	2816	16.2	25
M1346/20X89			89	208	8.9	1851	10.7	2221	12.0	2499	13.4	2777	20.1	20
M1346/20X102	**20**	10	102	188	10.2	1918	12.2	2301	13.8	2589	15.3	2876	22.3	20
M1346/20X115			115	159	11.5	1829	13.8	2194	15.5	2468	17.3	2743	25.5	10
M1346/20X127			127	146	12.7	1854	15.2	2225	17.1	2503	19.1	2781	27.9	10
M1346/20X152			152	120	15.2	1824	18.2	2189	20.5	2462	22.8	2736	34.1	10
M1346/20X305	4.1 x 3.8		305	60	30.5	1830	36.6	2196	41.2	2471	45.8	2745	68.8	10

Sipariş Kodu	D_H Hole Diameter	D_d Rod Diameter	L_0 Free Length	± 10% Spring Constant	A 10% L_0 + 3.000.000		B 12% L_0 - 1.500.000		C 13.5% L_0 300 - 500.000		D 15% L_0 100 - 200.000		E approx. do not use	
	b x h													
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	Pcs
M1346/25X44			44	1158	4.4	5095	5.3	6114	5.9	6879	6.6	7643	9.8	25
M1346/25X51			51	933	5.1	4758	6.1	5710	6.9	6424	7.7	7137	11.0	25
M1346/25X64			64	644	6.4	4122	7.7	4959	8.6	5564	9.6	6182	13	25
M1346/25X76			76	556	7.6	4226	9.1	5060	10.3	5705	11.4	6338	16	20
M1346/25X89			89	462	8.9	4112	10.7	4943	12.0	5551	13.4	6168	20	20
M1346/25X102	**25**	12.5	102	390	10.2	3978	12.2	4758	13.8	5370	15.3	5967	23	20
M1346/25X115			115	360	11.5	4140	13.8	4968	15.5	5589	17.3	6210	26	10
M1346/25X127			127	326	12.7	4140	15.2	4955	17.1	5589	19.1	6210	28	10
M1346/25X152			152	255	15.2	3876	18.2	4641	20.5	5233	22.8	5814	34	10
M1346/25X178			178	230	17.8	4094	21.4	4922	24.0	5527	26.7	6141	39	10
M1346/25X203			203	202	20.3	4101	24.4	4929	27.4	5536	30.5	6151	45	10
M1346/25X305	5.6 x 7.5		305	136	30.5	4148	36.6	4978	41.2	5600	45.8	6222	63	5
M1346/32X44			44	1300	4.4	5720	5.3	6890	5.9	7670	6.6	8643	9.3	20
M1346/32X51			51	1150	5.1	5865	6.1	7015	6.9	7935	7.7	8855	10.4	20
M1346/32X64			64	1077	6.4	6892	7.7	8270	8.6	9305	9.6	10337	13	20
M1346/32X76			76	874	7.6	6642	9.1	7971	10.3	8967	11.4	9964	16	20
M1346/32X89			89	721	8.9	6419	10.7	7702	12.0	8663	13.4	9628	20	10
M1346/32X102	**32**	16	102	620	10.2	6324	12.2	7589	13.8	8537	15.3	9486	23	10
M1346/32X115			115	560	11.5	6440	13.8	7728	15.5	8694	17.3	9660	26	10
M1346/32X127			127	496	12.7	6299	15.2	7559	17.1	8504	19.1	9449	28	10
M1346/32X152			152	408	15.2	6202	18.2	7442	20.5	8372	22.8	9302	34	10
M1346/32X178			178	353	17.8	6280	21.4	7536	24.0	8483	26.7	9420	39	5
M1346/32X203			203	304	20.3	6171	24.4	7405	27.4	8331	30.5	9257	45	5
M1346/32X254			254	243	25.4	6177	30.5	7413	34.3	8332	38.1	9266	62	5
M1346/32X305	7.5 x 9.2		305	196	30.5	5978	36.6	7174	41.2	8070	45.8	8967	75	5
M1346/40X64			64	1128	6.4	7219	7.7	8663	8.6	9746	9.6	10829	12	10
M1346/40X76			76	1017	7.6	7729	9.1	9275	10.3	10434	11.4	11594	14.5	10
M1346/40X89			89	880	8.9	7832	10.7	9416	12.0	10573	13.4	11748	20	10
M1346/40X102			102	762	10.2	7772	12.2	9296	13.8	10493	15.3	11659	23	10
M1346/40X115	**40**	20	115	679	11.5	7809	13.8	9370	15.5	10541	17.3	11713	26	10
M1346/40X127			127	622	12.7	7899	15.2	9454	17.1	10664	19.1	11849	28	5
M1346/40X152			152	509	15.2	7737	18.2	9264	20.5	10445	22.8	11605	36	5
M1346/40X178			178	429	17.8	7636	21.4	9181	24.0	10309	26.7	11454	43	5
M1346/40X203			203	374	20.3	7592	24.4	9126	27.4	10249	30.5	11388	49	5
M1346/40X254			254	296	25.4	7518	30.5	9028	34.3	10150	38.1	11278	62	2
M1346/40X305	8.5 x 11.0		305	246	30.5	7530	36.6	9004	41.2	10129	45.8	11255	75	2
M1346/50X64			64	1980	6.4	12672	7.7	15206	8.6	17107	9.6	19008	13.4	5
M1346/50X76			76	1811	7.6	13764	9.1	16516	10.3	18581	11.4	20645	16.3	5
M1346/50X89			89	1410	8.9	12549	10.7	15087	12.0	16941	13.4	18824	19	5
M1346/50X102			102	1215	10.2	12393	12.2	14823	13.8	16731	15.3	18590	22	5
M1346/50X115	**50**	25	115	1076	11.5	12374	13.8	14849	15.5	16705	17.3	18561	25	5
M1346/50X127			127	968	12.7	12294	15.2	14714	17.1	16596	19.1	18440	28	5
M1346/50X152			152	806	15.2	12251	18.2	14669	20.5	16539	22.8	18377	34	2
M1346/50X178			178	698	17.8	12424	21.4	14937	24.0	16773	26.7	18637	40	2
M1346/50X203			203	612	20.3	12424	24.4	14933	27.4	16772	30.5	18635	45	2
M1346/50X254			254	472	25.4	11989	30.5	14396	34.3	16185	38.1	17983	58	2
M1346/50X305	11.8 x 13.5		305	388	30.5	11834	36.6	14201	41.2	15976	45.8	17751	70	2
M1346/63X76			76	1900	7.6	14440	9.1	17328	10.3	19494	11.4	21660	13	5
M1346/63X89			89	1517	8.9	13501	10.7	16202	12.0	18227	13.4	20252	20	5
M1346/63X102			102	1295	10.2	13209	12.2	15851	13.8	17832	15.3	19814	23	5
M1346/63X115			115	1070	11.5	12305	13.8	14766	15.5	16612	17.3	18458	27	5
M1346/63X127	**63**	38	127	979	12.7	12433	15.2	14920	17.1	16785	19.1	18650	30	2
M1346/63X152			152	775	15.2	11780	18.2	14136	20.5	15903	22.8	17670	35	2
M1346/63X178			178	630	17.8	11214	21.4	13457	24.0	15139	26.7	16821	44	2
M1346/63X203			203	546	20.3	11084	24.4	13301	27.4	14963	30.5	16626	48	2
M1346/63X254			254	423	25.4	10744	30.5	12893	34.3	14505	38.1	16116	62	2
M1346/63X305	11.8 x 17.8		305	349	30.5	10645	36.6	12773	41.2	14370	45.8	15967	77	2

M1410 Yay Ayar Civatası 12.9 Kalite

Mat.: 1-6523 (SAE 8620) ≂62±2 HRC Sementasyon(Case Hardened)





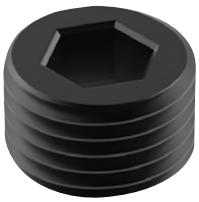
Sipariş Kodu	d1	L1	d2	L2	l3	d3	s
M1410/5X10		10					
M1410/5X12		12					
M1410/5X16		16					
M1410/5X20		20					
M1410/5X25	6	25	M5	9.5	4.5	10	3
M1410/5X30		30					
M1410/5X35		35					
M1410/5X40		40					
M1410/5X45		45					
M1410/5X50		50					
M1410/6X12		12					
M1410/6X16		16					
M1410/6X20		20					
M1410/6X25		25					
M1410/6X30		30					
M1410/6X35		35					
M1410/6X40	8	40	M6	11	5.5	13	4
M1410/6X45		45					
M1410/6X50		50					
M1410/6X55		55					
M1410/6X60		60					
M1410/6X65		65					
M1410/6X70		70					
M1410/6X80		80					
M1410/6X90		90					
M1410/8X16		16					
M1410/8X20		20					
M1410/8X25		25					
M1410/8X30		30					
M1410/8X35		35					
M1410/8X40	10	40	M8	13	7	16	5
M1410/8X45		45					
M1410/8X50		50					
M1410/8X55		55					
M1410/8X60		60					
M1410/8X65		65					
M1410/8X70		70					

Sipariş Kodu	d1	L1	d2	L2	L3	d3	s
M1410/8X80		80					
M1410/8X90	10	90	M8	13	7	16	5
M1410/8X100		100					
M1410/10X16		16					
M1410/10X20		20					
M1410/10X25		25					
M1410/10X30		30					
M1410/10X35		35					
M1410/10X40		40					
M1410/10X45		45					
M1410/10X50	12	50	M10	16	8	18	6
M1410/10X55		55					
M1410/10X60		60					
M1410/10X65		65					
M1410/10X70		70					
M1410/10X80		80					
M1410/10X90		90					
M1410/10X100		100					
M1410/10X120		120					
M1410/12X30		30					
M1410/12X35		35					
M1410/12X40		40					
M1410/12X45		45					
M1410/12X50		50					
M1410/12X55	16	55	M12	18	11	24	8
M1410/12X60		60					
M1410/12X65		65					
M1410/12X70		70					
M1410/12X80		80					
M1410/12X90		90					
M1410/12X100		100					
M1410/12X120		120					
M1410/16X40		40					
M1410/16X45		45					
M1410/16X50	20	50	M16	22	14	30	10
M1410/16X55		55					
M1410/16X60		60					

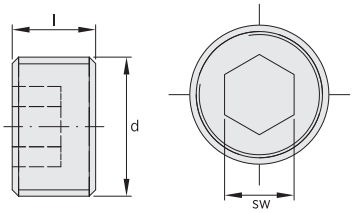
Sipariş Kodu	d1	L1	d2	L2	L3	d3	s
M1410/16X65		65					
M1410/16X70		70					
M1410/16X80	20	80					
M1410/16X90		90	M16	22	14	30	10
M1410/16X100		100					
M1410/16X120		120					
M1410/20X50		50					
M1410/20X55		55					
M1410/20X60		60					
M1410/20X65	24	65					
M1410/20X70		70	M20	27	16	36	12
M1410/20X80		80					
M1410/20X90		90					
M1410/20X100		100					
M1410/20X120		120					

M1411 Yay Sıkıştırma Ayar Vidası

Mat.: 1-6523 (SAE 8620) ≂62±2 HRC Sementasyon(Case Hardened)



Ayarlanabilir yay stoperi
(Ø10- 40 mm) arası
tüm çelik yaylar için stoklarımızda
mevcuttur.



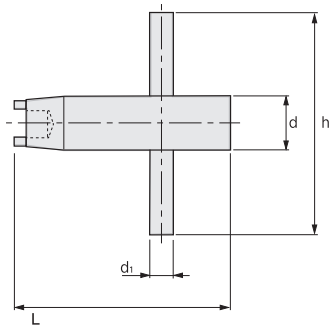
Sipariş Kodu	d	L	sw
M1411/12	M12x1,5	10	6
M1411/14	M14x1,5	10	6
M1411/16	M16x1,5	10	8
M1411/18	M18x1,5	10	10
M1411/20	M20x1,5	12	10
M1411/22	M22x1,5	12	12
M1411/24	M24x1,5	12	14
M1411/27	M27x1,5	12	14
M1411/36	M36x1,5	12	17

M2060 Yaylı İticiler İçin Ayar Takımı

Mat. : Çelik HRC 36±40



Vidalı ve kovanlı yaylı iticilerin
montajlarında kullanılır.
M2054 , M2056, M2058 ürünleri için.

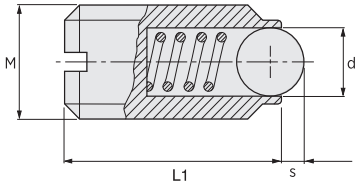


Sipariş Kodu	d	h	L	d1	Spring Plunger
M2060/05006	6	40	40	3	M5, M6
M2060/05008	8	45	45	4	M8
M2060/05010	10	45	45	4	M10
M2060/05012	12	50	50	5	M12
M2060/05016	16	70	52	8	M16
M2060/05024	24	80	62	12	M24
M2060/05030	30	100	73	15	M30

M2052 Yaylı İticiler (Bilyalı Setskur)

Mat. : 5.8 Inox



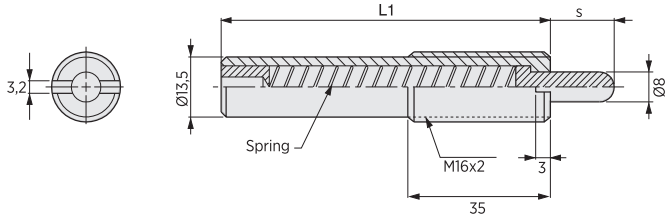


Sipariş Kodu	d	h	s	M	Initial Force (N)	Final Force (N)
M2052/01004	2,5	9	0,8	M4	6	12
M2052/01005	3	12	0,9	M5	7	13
M2052/01006	3,5	14	1,0	M6	9	15
M2052/01008	5	16	15	M8	20	35
M2052/01010	6	19	2,0	M10	25	45
M2052/01012	8	22	2,5	M12	35	60
M2052/01016	10	24	3,5	M16	65	110

M2054 Yaylı İticiler

Mat. : C80W2 HRC 36±40





Sipariş Kodu	h	s	Initial Force (N)	Final Force (N)
M2054/02060	150	60	11	45
M2054/02080	200	80	2	38

M2056 Yaylı İticiler

Mat. : 90Mn4 HRC 36±40

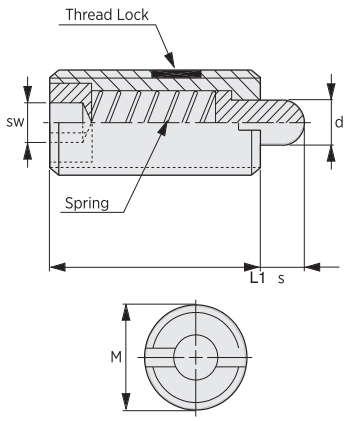


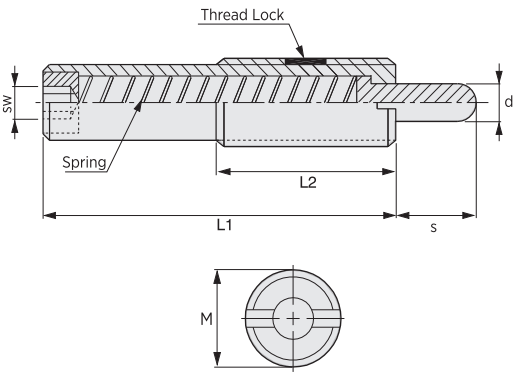
M2058 Yaylı İticiler

Mat. : 90Mn4 HRC 36±40



Yaylı iticiler kalıp ve aparat imalatı gibi birçok tasarımda fikstur olarak kullanılabilir.
Çıkarıcı, sabitleyici, tutucu pim ve sönümleyici olarak iş görür.





Sipariş Kodu	d	L1	s	sw	M	İlk Kuvvet N (Kgf)	Son Kuvvet N (Kgf)
M2056/03001	1	10	1,5	0,8	M3x0,5	0,4 (0,05)	2,9 (0,3)
M2056/03002	1,6	12	2	0,8	M4x0,7	1,9 (0,2)	9,8 (1,0)
M2056/03003	2	20	3	1,5	M5x0,8	3,9 (0,4)	19,6 (2,0)
M2056/03004	2	13	3	1,5	M5x0,8	1,9 (0,2)	7,8 (0,8)
M2056/03005	2	20	3	1,5	M5x0,8	1,9 (0,2)	9,8 (1,0)
M2056/03006	2,5	25	3	2,0	M6x1,0	2,9 (0,3)	9,8 (1,0)
M2056/03007	2,5	25	3	2,0	M6x1,0	7,8 (0,8)	29,4 (3,0)
M2056/03008	3,1	25	3	2,5	M8x1,25	2,9 (0,3)	9,8 (1,0)
M2056/03009	3,1	25	3	2,5	M8x1,25	7,8 (0,8)	29,4 (3,0)
M2056/03010	3,8	30	5	30	M10x,1,5	2,9 (0,3)	14,7 (1,5)
M2056/03011	3,8	30	5	3,0	M10x,1,5	9,8 (1,0	49,0 (5,0)
M2056/03012	5,5	30	5	4,0	M12x,1,75	1,9 (0,2)	9,8 (1,0)
M2056/03013	5,5	30	5	4,0	M12x,1,75	9,8 (1,0)	49,0 (5,0)

Sipariş Kodu	d	L1	s	sw	M	İlk Kuvvet N (Kgf)	Son Kuvvet N (Kgf)
M2058/04001	5,5	43	10	4	M12x,1,75	3,9 (0,4)	19,6 (2)
M2058/04002	5,5	43	10	4	M12x,1,75	6,8 (0,7)	39,2 (4)
M2058/04003	8	50	10	5	M16x2,0	9,8 (1	49,0 (5)
M2058/04004	8	50	10	5	M16x2,0	19,6 (2)	98,0 (10)
M2058/04005	8	60	10	5	M16x2,0	12,7 (1,3)	39,2 (4)
M2058/04006	8	60	10	5	M16x2,0	26,4 (2,7)	78,4 (8)
M2058/04007	8	60	15	5	M16x2,0	9,8 (1)	39,2 (4)
M2058/04008	8	60	15	5	M16x2,0	14,7 (1,5)	78,4 (8)
M2058/04009	8	85	20	5	M16x2,0	12,7 (1,3)	39,2 (4)
M2058/04010	8	85	20	5	M16x2,0	16,6 (1,7)	78,4 (8)
M2058/04011	8	125	30	5	M16x2,0	19,6 (1,8)	78,4 (8)
M2058/04012	8	125	30	5	M16x2,0	19,6 (2)	78,4 (8)
M2058/04013	8	155	50	8	M16x2,0	19,6 (2)	49,0 (5)
M2058/04014	8	155	50	8	M16x2,0	29,4 (3)	98, (10)
M2058/04015	3	60	15	8	M24x3,0	19,6 (2)	98,0 (10)
M2058/04016	3	60	15	8	M24x3,0	39,2 (4)	196,1 (20)
M2058/04017	4	70	20	12	M30x3,0	29,4 (3)	147,0 (15)
M2058/04018	4	70	20	12	M30x3,0	49,0 (5)	294,1 (30)



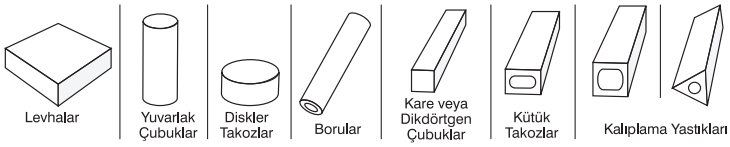
● 80 Shore Maksimum esneme payı %30



● 90 Shore Maksimum esneme payı %25

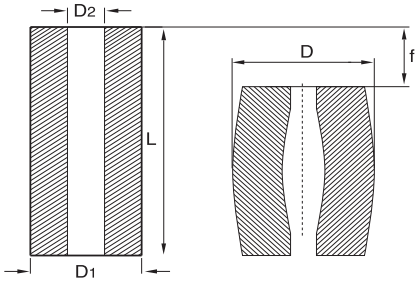
Teknik Veri Tablosu (Renk ve Shor'larına göre esneme payları)

D1 Dış Çap	D2 Delik Çap	L Tam Boy	Sarı (80 Shore) P Yük/kg.	Sarı (80 Shore) D Esneme Max. Çap	Sarı (80 Shore) F Esneme Max.Boy	Kırmızı (90 Shore) P Yük/kg.	Kırmızı (90 Shore) D Esneme Max. Çap	Kırmızı (90 Shore) F Esneme Max.Boy
16	6	12	179	21	3.6	226	20	3
		16	173		4.8	218		5
		20	170		6.0	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		6.0	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		6.0	530		5
		25	412		7.5	520		6.25
		32	40		9.6	510		8
		40	380		12.0	50		10
		50	365		15.0	480		12.50
32	13.5	16	730	42	4.8	930	40	4
		20	720		6.0	900		5
		25	690		7.5	880		6.25
		32	670		9.6	850		8
		40	650		12.0	820		10
		50	635		15.0	810		12.50
40	13.5	20	1280	52	6.0	1620	50	5
		25	1260		7.5	1550		6.25
		32	1180		9.6	1500		8
		40	1170		12.0	1450		10
		50	1120		15.0	1410		12.50
		69	1100		18.9	1380		15.75
50	17	25	1980	65	7.5	2500	62	6.25
		32	1910		9.6	2400		8
		40	1850		12.0	2300		10
		50	1810		15.0	2250		12.50
		63	1760		18.9	2200		15.75
		80	1730		24.0	2150		20
63	17	32	3400	82	9.6	4200	78	9
		40	3200		12.0	4050		10
		50	3100		15.0	3900		12.50
		63	3000		18.9	3800		15.75
		80	2900		24.0	3700		20
		100	2800		30.0	3600		25
80	21	40	5500	104	12.0	6900	99	10
		50	5250		15.0	6600		12.50
		63	5050		18.9	6400		15.75
		80	4900		24.0	6200		20
		100	4750		30.0	6000		9
		125	4650		37.5	5800		10
100	21	50	9000	130	15.0	1300	125	12.50
		63	8600		18.9	10800		15.75
		80	8250		24.0	10400		20
		100	8000		30.0	10000		25
		125	7600		37.5	9700		31.25
		160	7500		48.0	9500		40
125	27	63	14200	160	18.9	17600	156	15.75
		80	13200		24.0	16800		20
		100	12800		30.0	16000		25
		125	12400		37.5	15300		31.25
		160	12000		48.0	15000		40



Poliüretan Kalıp Yaylarının Standart Çapları ve Boyları

Kod	D1	D2	L (mm)
PSSD-016	Ø 16 mm	-	310
PSKD-016	Ø 16 mm	-	310
PSSB-016	Ø 16 mm	7.00	310
PSKB-016	Ø 16 mm	7.00	310
PSSD-020	Ø 20 mm	-	310
PSKD-020	Ø 20 mm	-	310
PSSB-020	Ø 20 mm	8.50	310
PSKB-020	Ø 20 mm	8.50	310
PSSD-025	Ø 25 mm	-	310
PSKD-025	Ø 25 mm	-	310
PSSB-025	Ø 25 mm	10.50	310
PSKB-025	Ø 25 mm	10.50	310
PSSD-032	Ø 32 mm	-	310
PSKD-032	Ø 32 mm	-	310
PSSB-032	Ø 32 mm	13.50	310
PSKB-032	Ø 32 mm	13.50	310
PSSD-040	Ø 40 mm	-	310
PSKD-040	Ø 40 mm	-	310
PSSB-040	Ø 40 mm	13.50	310
PSKB-040	Ø 40 mm	13.50	310
PSSD-050	Ø 50 mm	-	310
PSKD-050	Ø 50 mm	-	310
PSSB-050	Ø 50 mm	17	310
PSKB-050	Ø 50 mm	17	310
PSSD-063	Ø 63 mm	-	310
PSKD-063	Ø 63 mm	-	310
PSSB-063	Ø 63 mm	17	310
PSKB-063	Ø 63 mm	17	310
PSSD-080	Ø 80 mm	-	310
PSKD-080	Ø 80 mm	-	310
PSSB-080	Ø 80 mm	21	310
PSKB-080	Ø 80 mm	21	310
PSSD-100	Ø 100 mm	-	310
PSKD-100	Ø 100 mm	-	310
PSSB-100	Ø 100 mm	21	310
PSKB-100	Ø 100 mm	21	310
PSSD-125	Ø 125 mm	-	310
PSKD-125	Ø 125 mm	-	310
PSSB-125	Ø 125 mm	27	310
PSKB-125	Ø 125 mm	27	310

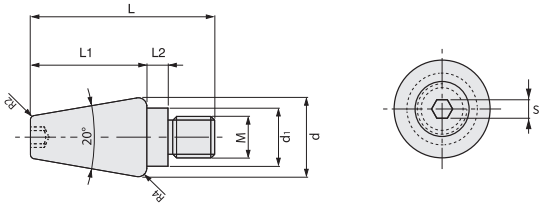


* Standart dışı özel ölçüler talep üzerine temin edilir.

M2046 Elastomer Yaylar için Sabitleme Pimi

Mat. : CK45

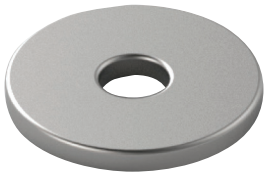


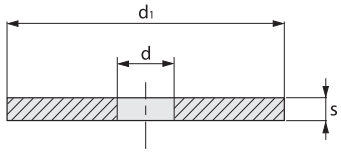


Sipariş Kodu	d	L	L1	L2	d1	M	s	Elastomer Ø
M2046/28	28	56	30	8	19	M12	6	63
M2046/32	32	74	40	10	22	M16	8	80-100
M2046/38	38	100	55	15	28	M20	10	125-140

M2050 Elastomer Yaylar için Pul

Mat. : CK45



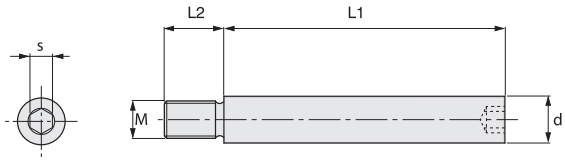


Sipariş Kodu	d	d1	s	Elastomer Ø□
M2050/020004	6,5	20	4	16
M2050/025004	8,5	25	4	20
M2050/030005	10,5	30	5	25
M2050/040005	13,5	40	5	32
M2050/050005	13,5	50	5	40
M2050/060006	16,5	60	6	50
M2050/080006	16,5	80	6	63
M2050/100008	20,5	100	8	80
M2050/120008	20,5	120	8	100
M2050/150008	26	150	8	125

M2048 Elastomer Yaylar için Sabitleme Pimi

Mat. : CK45





Sipariş Örneği M2048/M-L1

d	L1											L2	M	s
6	20	25	32	40	-	-	-	-	-	-	-	6	M4	3
8	20	25	32	40	50	-	-	-	-	-	-	9	M6	4
10	20	25	32	40	50	63	-	-	-	-	-	15	M8	5
13	-	-	32	40	50	63	80	95	-	-	-	15	M10	6
16	-	25	32	40	50	63	80	95	118	140	180	18	M12	8
20	-	-	32	40	50	63	80	95	118	140	180	25	M16	10
25	-	-	32	40	50	63	80	95	118	140	180	30	M20	14

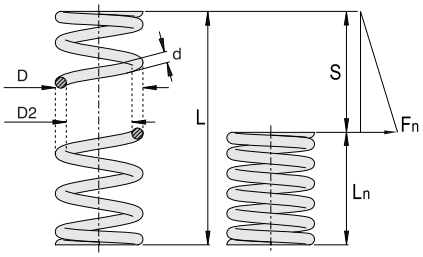
MCYY01 Yuvarlak Tel Çelik Yaylar

Mat. : Yay Çeliği - Sertleştirilmiş



HAFİF YÜK

N - Newton = 0,102 Kg.'dir.



Sipariş Örneği MCYY01/DxL

D	L	D2	d	S	Fn	Ln
10	40	7.00	1.50	18.9	148	21.1
12	55	9.00	1.50	30.0	103	25.0
14	40	10.0	2.00	19.1	243	20.9
14	50	10.0	2.00	24.0	228	26.0
15	40	11.0	2.00	19.5	221	20.5
15	100	11.0	2.00	58.5	245	41.5
17	85	12.5	2.25	41.0	265	44.0
17.5	45	11.5	3.00	13.0	422	32.0
17.5	50	11.5	3.00	15.0	434	35.0
18	83	10.0	4.00	18.0	1198	65.0
19	35	11.0	4.00	5.0	697	30.0
19	90	10.0	2.50	17.0	1669	73.0
19.5	35	14.5	3.00	14.0	186	21.0
19.5	40	13.5	2.50	14.0	398	36.0
20.5	95	15.5	4.00	54.0	262	41.0
21	40	13.0	3.00	11.0	1148	29.0
21.5	45	15.5	4.00	20.0	436	25.0
21.5	50	13.5	3.00	15.0	1099	35.0
22	45	16.0	3.00	21.7	387	23.3
22	70	16.0	3.00	29.4	387	40.6
22	100	16.0	3.50	38.7	387	61.3
23	130	16.0	3.50	43.4	579	86.6
23	160	16.0	3.50	54.6	579	105.4
23	190	16.0	4.00	64.8	579	125.2
24	220	16.0	4.00	62.4	765	157.6
24	250	16.0	4.00	71.6	765	178.4
25	24	17.0	7.00	7.00	790	17.0
27.8	70	13.8	8.00	8.00	3014	62.0
30	70	22.0	32.5	32.5	739	37.5
30	150	17.0	34.0	34.0	3142	116.0

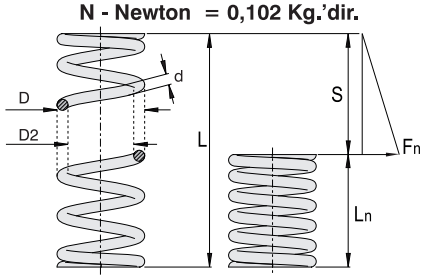
MCYY02 Yuvarlak Tel Çelik Yaylar

Mat. : Yay Çeliği - Sertleştirilmiş



ORTA YÜK

N - Newton = 0,102 Kg.'dir.



Sipariş Örneği MCYY02/DxL

D	L	D2	d	S	Fn	Ln
13	55	10.0	1.50	25.2	112	25.3
15	50	11.0	2.00	21.2	250	25.0
16	40	12.0	2.00	17.0	220	20.0
18	85	13.4	2.30	37.4	60	41.0
19	50	13.0	3.00	13.6	480	34.0
20.5	90	11.5	4.50	15.0	1714	72.4
21	40	15.0	3.00	11.9	450	26.0
22	95	17.0	2.50	41.5	200	46.2
23	50	15.0	4.00	13.3	1160	34.4
26.5	24	18.5	4.00	6.10	960	16.8
30	70	16.0	7.00	9.30	3750	59.0
32	70	24.0	4.00	28.9	822	36.0
34	125	22.0	6.00	27.2	2150	93.0
44	130	28.0	8.00	30.6	3895	94.0
48	67	28.0	10.0	7.60	5760	58.0
49	50	32.0	8.50	9.30	3707	39.0
58	50	42.0	8.00	11.9	2117	36.0
63	180	41.0	11.0	36.6	5203	137

Gazlı Yaylar



Gazlı Yaylar Genel Bilgilendirme

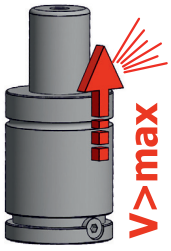
GÜVENLİK BİLGİLERİ



P>max
Aşırı Basınç Koruması
Max basınç değeri aşıldığında azot gazı kontrollü olarak boşaltılır.



S>max
Aşırı Strok Koruması
Max strok değeri aşıldığında azot gazı kontrollü olarak boşaltılır.

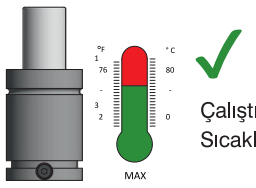


V>max
Aşırı Hız Koruması
Max hız değeri aşıldığında azot gazı kontrollü olarak boşaltılır.

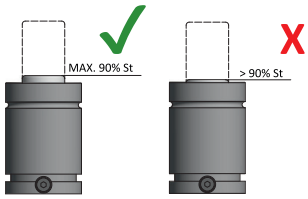
KULLANIM TALİMATI



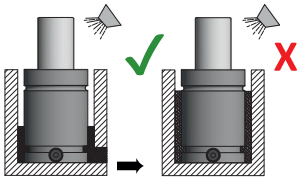
Yalnızca
NİTROJEN GAZI
(N_2) ile doldurun.



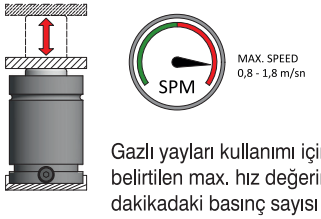
Çalıştırma
Sıcaklığı



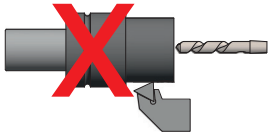
Gazlı yayları tamınlanan max. strok değeri dışında kullanmayın.



Gazlı yayları agresif sıvı temasından kaçınınız (soda, klorit)



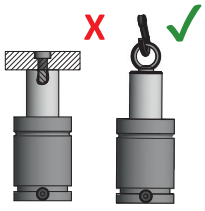
Gazlı yayları kullanımı için belirtilen max. hız değerini, dakikadaki basınç sayısı ile karıştırmayın.



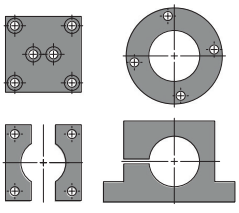
Gövdeye yada mile mekanik darbe gelmesine izin vermeyin.



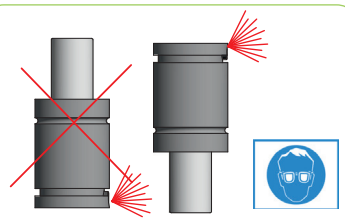
Gazlı yay yapısal bir zarar aldıysa, içindeki tüm gazı (N_2) boşaltın.



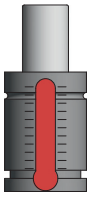
Mil üzerindeki vida deliğini sadece gazlı yayların bakımı için kullanın



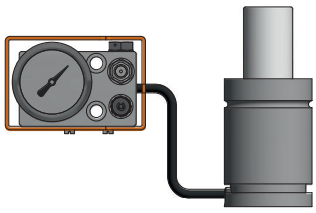
Gazlı yaylarını her zaman uygun bağlantı parçalarıyla kullanınız.



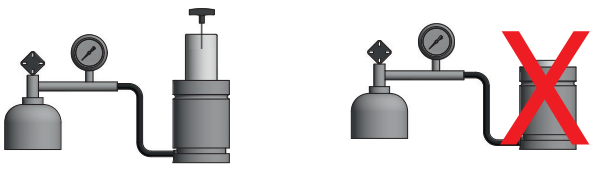
Gazı tahliye ederken çıkan gazı doğrudan operatöre yönlendirmeyin.



Katalogda belirtilen değerler 20 °C sıcaklığa göre verilmiştir. Sıcaklık değerinin değişmesi gaz basıncının değişmesine neden olacaktır.



Gazlı yay sistemine bağlanabilen tüm gazlı yaylar içerisinde gaz olmadan tedarik edilir. (K19, K25, EF170, EF320 hariç) Gazlı yayları, sisteme bağlanabilen gazlı yaylara dönüştürmek istiyorsanız gerekli hortum ve bağlantı parçalarını sipariş etmeli ve **www.devpakalip.com** sitesinden seriler için hazırlanan özel talimatlara uymalısınız.



Gazlı yaya dolum yapmaya başlamadan önce milin tamamının çıkarıldığından emin olun.

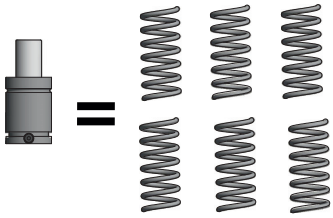


a) Sevk Tarihi
b) Parti Numarası
c) Ağırlık
d) Sızdırmazlık Elemanları Değişim Sayısı
e) Model Kodu
f) Güvenlik Piktogramları
g) Genel Bilgiler
h) PED Kategorisi
i) Revizyon Göstergesi

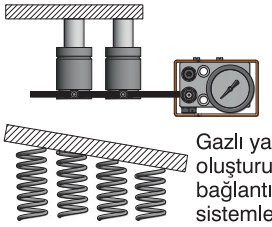


Gazlı yayların bakımı sadece yetkili personel tarafından yapılmalıdır. Aksi takdirde yapılan hatalar ciddi yaralanmalara sebep olabilir. Gazlı yay üzerinde herhangi bir işleme başlamadan önce, tüm gazı boşaltın ve milin gövdeye tamamen geri çekildiğinden emin olun.

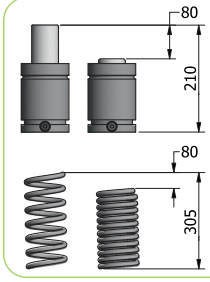
AVANTAJ



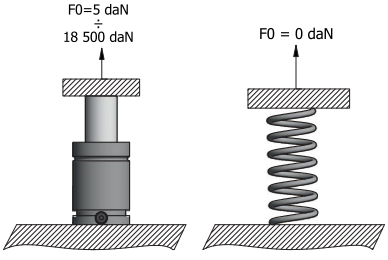
Daha az alanla daha fazla kuvvet elde edilir.



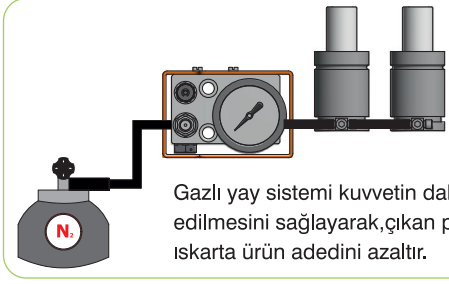
Gazlı yaylar ile oluşturulan seri bağlantı sistemlerinde kuvvet dengelidir.



Gazlı yaylar daha kısa boylarda, yaylar ile aynı strok ve kuvveti sağlar.



Gazlı yaylar için ön yüklemeye ihtiyaç yoktur. Kolay ve hızlı bir şekilde montajı sağlanır.



Gazlı yay sistemi kuvvetin daha iyi kontrol edilmesini sağlayarak,çıkan parçalardaki ıskarta ürün adedini azaltır.

KULLANICI BİLGİSİ

Alfamak gazlı yaylar, 2014/68EU Avrupa Birliği direktifine uygun olarak üretilmektedir. Bu yönerge basınçlı ekipman standartlarını belirler ve bunların 0,5 bar darn daha büyük olan maksimum izin verilebilen P.S.(basıncın etkilediği kesit alanı) basıncına maruz kalan kaplar ve borular olarak tanımlar. Özellikle 2014/68/EU yönergesine göre basınçlı ekipmanlar kategorilere göre sınıflandırılırlar ve basınç P(bar) x gaz hacmi $V_0(dm^3)=50$ ya da üzeri olan sonuçlarda üreticinin seri numarasını ve CE işaretini taşırlar. CE işareti II ve III Kategorileri için zorunlu fakat I Kategorisi için isteğe bağlıdır. p X V_0 sonucu 50'nin altında olan tüm gazlı yaylar aynı yönergenin 4,3 maddesine tabidir ve CE işaretini taşımazlar.

Gazlı Yaylarda Başlangıç Kuvvetinin Hesaplanması

Gazlı yaylarda başlangıç kuvveti, maksimum dolma basıncına (P) ve milin kesit alanına bağlıdır.(A) veya tasarıma bağlı olarak gövdenin iç çapına).

F_0 (daN) = P (bar) x A (cm^2)

Başlangıç Kuvvetinin Ayarlanması

Gazlı yaylar, talep edilen bir başlangıç kuvvetinde çalıştırılmak istenirse gazlı yaya uygulanması gereken doldurma basıncı verilen formül ile hesaplanabilmektedir.

$$P_{\text{Doldurma Basıncı}} = P_{\text{Standart}} \cdot \frac{F_{\text{istenilen}}}{F_{\text{Standart}}}$$

$P_{\text{Doldurma Basıncı}}$ (bar) : Kullanılması gereken doldurma basıncı

P_{Standart} (bar) : Gazlı yayda kullanılan standart doldurma basıncı

F_{Standart} (N) : P_{Standart} değerindeki standart başlangıç kuvveti

İzotermal Kuvvet

Gazlı yaylar sıkıştırıldıkça, yay içindeki gaz basıncı artar bu da gazlı yay kuvvetinin artmasına neden olur. Gaz basıncının artışı (ve kuvvet artışı) ideal gaz kanunu ile belirlenir.

İdeal Gaz Kanunu: $P.V = n.R.T$

P (bar) : Gaz basıncı

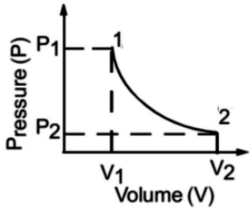
V (m^3) : Hacim

n (mol) : Azotun mol sayısı

R (Nm/°K) : Gaz sabiti (8,314)

T (°K) : Sıcaklık

Sıcaklığın değişmeden sabit kaldığı süreçler izotermal olarak adlandırılır. Sıcaklık sabit olduğunda ideal gaz kanunu sağ tarafındaki terimlerin(yani nRT) tümü sabitlenir ve hacim ile basınç arasındaki ilişki P=Sabit/V (Boyles Kanunu) haline dönüşür. Bu da P-V eğrisinin doğrusal olmamasına neden olur.



Herhangi bir strok ölçüsündeki (St_x) izotermal kuvvet (F_{x_i}) aşağıda verilen formül ile hesaplanabilmektedir.

$$F_{x_i} = F_0 \cdot \left(\frac{1}{1 - \frac{A}{V_0} \cdot \frac{ST_x}{10}} \right)^n$$

n, doldurma basıncına bağlı üs değerdir ve tablo1'de verilmiştir.

P	n
≤100 bar	1,09
150 bar	1,19
200 bar	1,31

Politropik Kuvvet

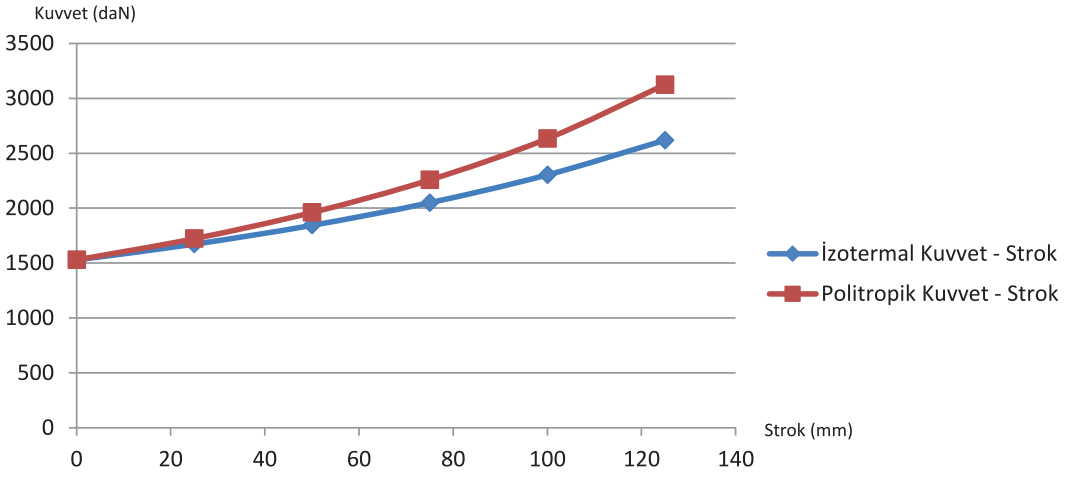
Gazlı yaylar, strok sırasında sürtünme nedeniyle ısı ürettikleri için gazlı yayın içindeki sıcaklık sabit kalmaz. Bu nedenle, gerçek kuvvet uygulamadan uygulamaya farklıdır. Buna politropik etki denir. Strok uzunluğu, kullanılan strok, gaz hacmi, pres hızı, dakikadaki basım sayısı, çalışma sıcaklığı ve ortamı, iç sürtünmeler vb. faktörler politropik kuvvetin belirlenmesinde etkilidir.

$$P_1 V_1^n = P_2 V_2^n \qquad \frac{T_2}{T_1} = \frac{P_2^{(n-1)/n}}{P_1} = \frac{V_1^{(n-1)}}{V_2} \text{ or } \frac{P_2}{P_1} = \frac{V_1^n}{V_2}$$

Herhangi bir strok ölçüsündeki (ST_x) politropik kuvvet (F_{x_p})(aşağıda verilen formül ile hesaplanabilmektedir.

$$F_{x_p} = F_0 \cdot \left(\frac{1}{1 - \frac{A}{V_0} \cdot \frac{ST_x}{10}} \right)^{1,58}$$

EK01500 125 model gazlı yay için verilen formüller ile yapılan hesaplama sonucunda elde edilen grafik Şekil 1'de verilmiştir.

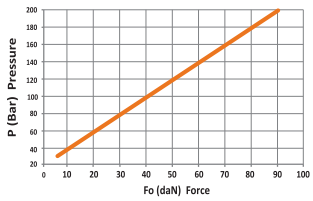


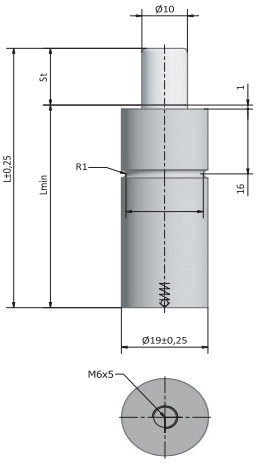
Şekil 1. EK01500 125 için Kuvvet-Strok Eğrisi

MK19 MK Serisi Gazlı Yaylar Küçük Boyut

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MK19-007A	**7**	56	49			0,10
MK19-010A	**10**	62	52			0,10
MK19-013A	**13**	67,4	54,7			0,11
MK19-015A	**15**	72	57			0,11
MK19-025A	**25**	92	67	120 Kg	250 Kg	0,13
MK19-038A	**38**	118,2	80,1			0,15
MK19-050A	**50**	142	92			0,17
MK19-063A	**63**	172	108,5			0,21
MK19-080A	**80**	205	125			0,24
MK19-100A	**100**	245	145			0,28
MK19-125A	**125**	295	170			0,33

Çalışma Sıcaklığı: **0-80 °C**
Maksimum Dolum Basıncı : **180 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **0,80 cm²**
Maksimum Hız : **1,8 m/s**





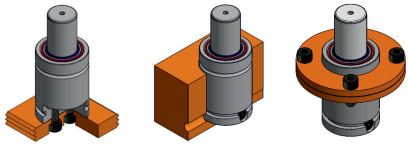
OTOMOTİV STANDARTLARI

ISO 11901-1
VDI 3003 - Blatt 2

B8 3180 220 000 002 (MB)
39D 878 (VW)

B2 4007 (BMW)
075.90.50 (FCA)



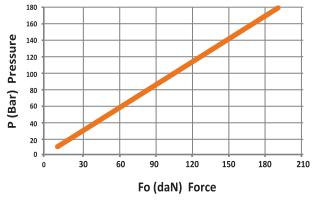


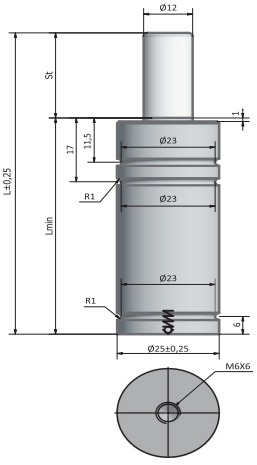
Bottom Mount | Drop - in | D 019 DF 019

MK25 MK Serisi Gazlı Yaylar Küçük Boyut

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MK25-007A	**7**	56	49			0,16
MK25-010A	**10**	62	52			0,16
MK25-013A	**13**	67,4	54,7			0,17
MK25-015A	**15**	72	57			0,18
MK25-025A	**25**	92	67	150 Kg	260 Kg	0,21
MK25-038A	**38**	118,2	80,1			0,25
MK25-050A	**50**	142	92			0,29
MK25-063A	**63**	172	108,5			0,34
MK25-080A	**80**	205	125			0,39
MK25-100A	**100**	245	145			0,45
MK25-125A	**125**	295	170			0,53

Çalışma Sıcaklığı: **0-80 °C**
Maksimum Dolum Basıncı : **180 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **1,13 cm²**
Maksimum Hız : **1,8 m/s**





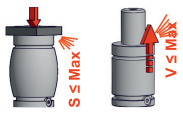
OTOMOTİV STANDARTLARI

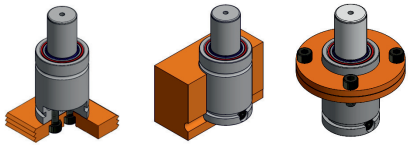
ISO 11901-1
VDI 3003 - Blatt 2

B8 3180 220 000 002 (MB)
K3202-2400-50(Nissan)

B2 4007 (BMW)
075.90.50 (FCA)

E24.54.815.G(PSA)
39D 878 (VW)

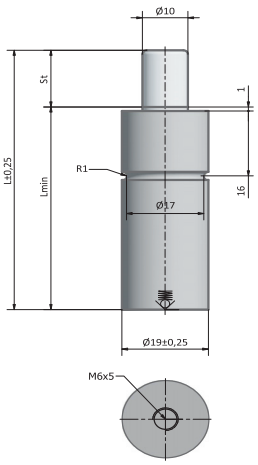




Bottom Mount | Drop - in | D 025 DF 025

MEF170 MEF Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MEF170-007A	**7**	44	37			0,07
MEF170-010A	**10**	50	40			0,08
MEF170-013A	**13**	56	43			0,09
MEF170-015A	**15**	60	45			0,09
MEF170-019A	**19**	68	49	170 Kg	280 Kg	0,10
MEF170-025A	**25**	80	55			0,11
MEF170-032A	**32**	94	62			0,12
MEF170-038A	**38**	106	68			0,13
MEF170-050A	**50**	130	80			0,16
MEF170-063A	**63**	156	93			0,18
MEF170-075A	**75**	185	110			0,22
MEF170-080A	**80**	195	115			0,23
MEF170-100A	**100**	235	135			0,26
MEF170-125A	**125**	285	160			0,31



OTOMOTİV STANDARTLARI

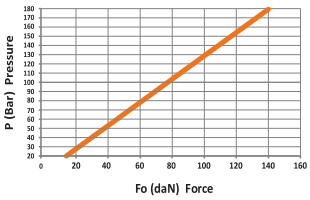
ISO 11901-3
VDI 3003 - Blatt 3

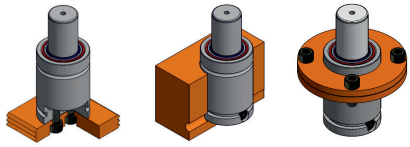
B8 3180 220 000 004 (MB)
39D 997 (VW)

B2 4005 (BMW)
075.90.60 (FCA)



Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **0,80 cm²**
Maksimum Dolum Basıncı : **180 bar**
Maksimum Hız : **1,8 m/s**

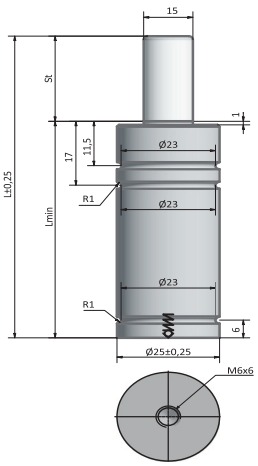




Bottom Mount | Drop - in | D 019 DF 019

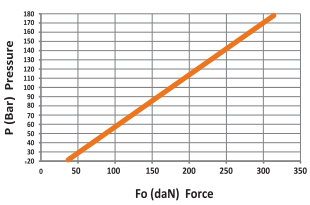
MEF320 MEF Serisi Gazlı Yaylar

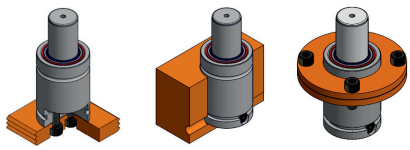
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MEF320-007A	**7**	44	37			0,11
MEF320-010A	**10**	50	40			0,12
MEF320-013A	**13**	56	43			0,12
MEF320-015A	**15**	60	45			0,13
MEF320-019A	**19**	68	49	320 Kg	520 Kg	0,14
MEF320-025A	**25**	80	55			0,15
MEF320-032A	**32**	94	62			0,17
MEF320-038A	**38**	106	68			0,18
MEF320-050A	**50**	130	80			0,20
MEF320-063A	**63**	156	93			0,23
MEF320-075A	**75**	185	110			0,27
MEF320-080A	**80**	195	115			0,28
MEF320-100A	**100**	235	135			0,33
MEF320-125A	**125**	285	160			0,39





Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **1,77 cm²**
Maksimum Dolum Basıncı : **180 bar**
Maksimum Hız : **1,8 m/s**

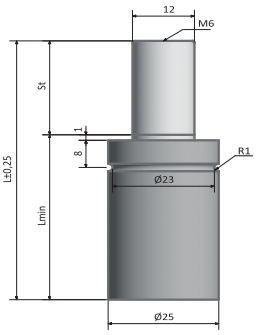


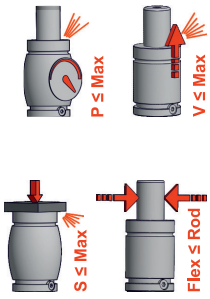


Bottom Mount | Drop - in | D 025 DF 025

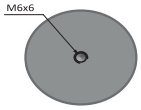
ME200 ME Serisi Gazlı Yaylar

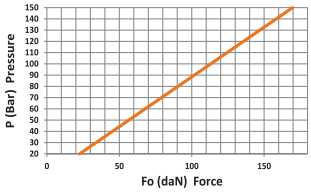
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME200-010A	**10**	50	40	200 Kg	300 Kg	0,10
ME200-013A	**13**	56	43			0,10
ME200-016A	**16**	62	46			0,20
ME200-019A	**19**	68	49			0,20
ME200-025A	**25**	80	55			0,20
ME200-032A	**32**	94	62			0,20

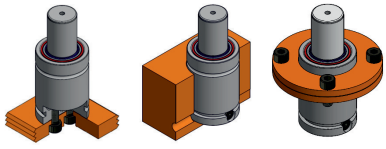




Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **1,77 cm²**
Maksimum Dolum Basıncı: **180 bar**
Maksimum Hız : **1,8 m/s**



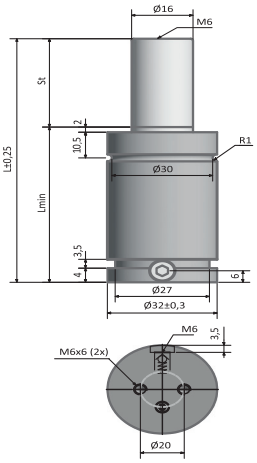




Bottom Mount | Drop - in | D 025 DF 025

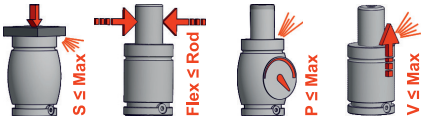
ME300 ME Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME300-010A	**10**	50	40	300 Kg	550 Kg	0,21
ME300-013A	**13**	56	43			0,22
ME300-016A	**16**	62	46			0,23
ME300-019A	**19**	68	49			0,24
ME300-025A	**25**	80	55			0,26
ME300-032A	**32**	94	62			0,30
ME300-038A	**38**	106	68			0,32
ME300-050A	**50**	130	80			0,38
ME300-063A	**63**	156	93			0,44
ME300-075A	**75**	180	105			0,49
ME300-080A	**80**	190	110			0,52
ME300-100A	**100**	230	130			0,62
ME300-125A	**125**	280	155			0,76

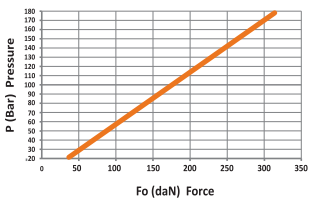


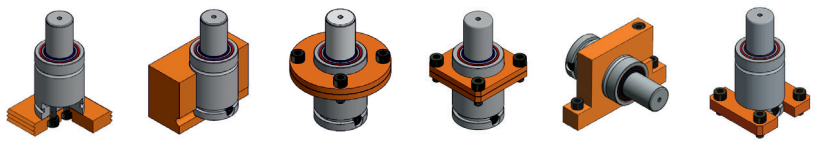
OTOMOTİV STANDARTLARI

- ISO 11901-3
  VDI 3003 - Blatt 3
- B8 3180 220 000 004 (MB)
  39D997(VW)
- B2 4005 (BMW)
  075.90.60 (FCA)
- W-DX35-6204(FORD)



Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **2,01 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**

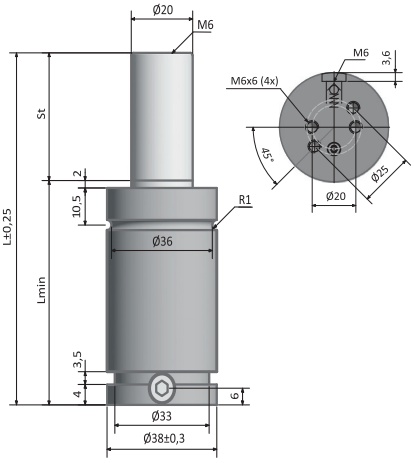




Bottom Mount | Drop - in | D 032 | DK 032 | TA 032 TD 032 | CB 032 CA 032

ME500 ME Serisi Gazlı Yaylar

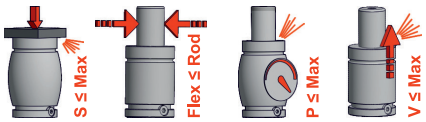
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME500-010A	**10**	50	40			0,29
ME500-013A	**13**	56	43			0,30
ME500-016A	**16**	62	46			0,32
ME500-019A	**19**	68	49			0,34
ME500-025A	**25**	80	55	500 Kg	950 Kg	0,38
ME500-032A	**32**	94	62			0,42
ME500-038A	**38**	106	68			0,45
ME500-050A	**50**	130	80			0,53
ME500-063A	**63**	156	93			0,60
ME500-075A	**75**	180	105			0,68
ME500-080A	**80**	190	110			0,72
ME500-100A	**100**	230	130			0,84
ME500-125A	**125**	280	155			1,00

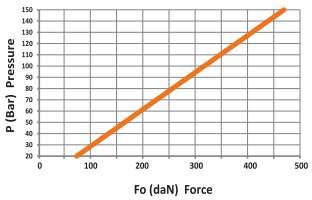


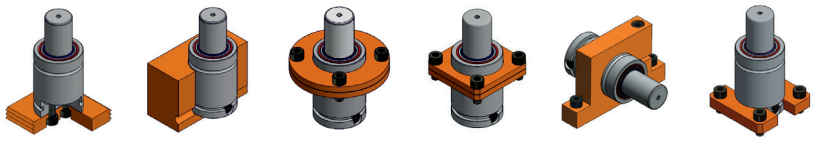
OTOMOTİV STANDARTLARI

- ISO 11901-3 VDI 3003 - Blatt 3
- B8 3180 220 000 004 (MB) 39D997(VW)
- E24.54.815.G(PSA) EM24.54.700(Renault)
- W-DX35-6204(Ford) K 32 H (Nissan)
- B2 4005 (BMW) 075.90.60 (FCA)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **3,14 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



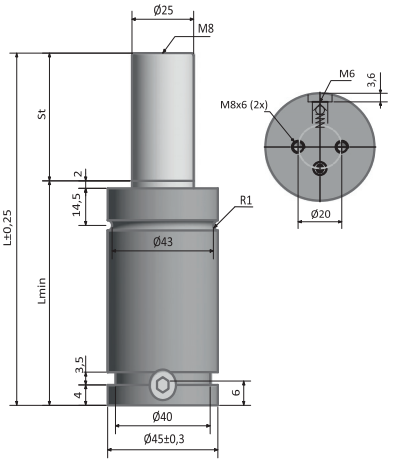




Bottom Mount | Drop - in | D 032 | DK 032 | TA 032 TD 032 | CB 032 CA 032

ME750 ME Serisi Gazlı Yaylar

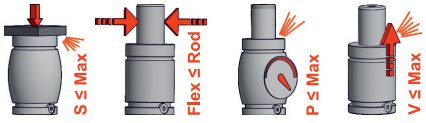
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME750-010A	**10**	52	42			0,41
ME750-013A	**13**	58	45			0,43
ME750-016A	**16**	64	48			0,44
ME750-019A	**19**	70	51			0,46
ME750-025A	**25**	82	57	750 Kg	1400 Kg	0,50
ME750-032A	**32**	96	64			0,55
ME750-038A	**38**	108	70			0,58
ME750-050A	**50**	132	82			0,67
ME750-063A	**63**	158	95			0,75
ME750-075A	**75**	182	107			0,83
ME750-080A	**80**	192	112			0,86
ME750-100A	**100**	232	132			0,99
ME750-125A	**125**	282	157			1,15

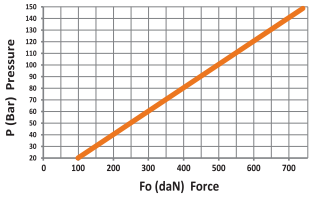


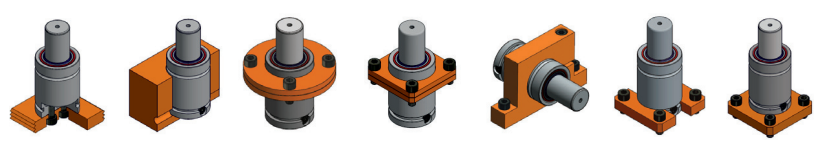
OTOMOTİV STANDARTLARI

- ISO 11901-3 VDI 3003 - Blatt 3
- B8 3180 220 000 004 (MB)
- B2 4005 (BMW) 075.90.60 (FCA)
- E24.54.815.G(PSA) 39D 997 (VW)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **4,91 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



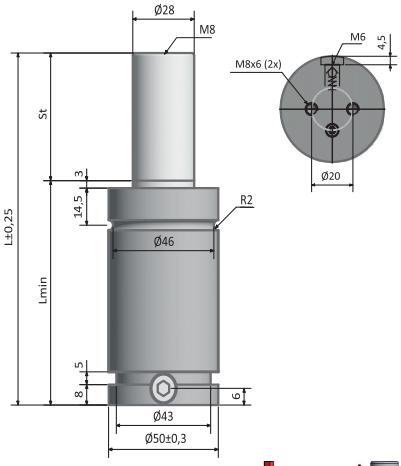




Bottom Mount | Drop - in | D 045 | DK 045 | TA 045 - TD 045 TE 045 - TT 050 | CB 045 C 045 | K 045 - KB 045 KC 045 - KF 045

ME1000 ME Serisi Gazlı Yaylar

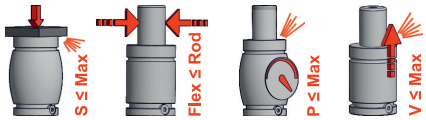
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME1000-010A	**10**	58	48			0,58
ME1000-013A	**13**	64	51			0,60
ME1000-016A	**16**	70	54			0,63
ME1000-019A	**19**	76	57			0,65
ME1000-025A	**25**	88	63	1000 Kg	2250 Kg	0,70
ME1000-032A	**32**	102	70			0,76
ME1000-038A	**38**	114	76			0,80
ME1000-050A	**50**	138	88			0,89
ME1000-063A	**63**	164	101			1,00
ME1000-075A	**75**	188	113			1,09
ME1000-080A	**80**	198	118			1,15
ME1000-100A	**100**	238	138			1,32
ME1000-125A	**125**	288	163			1,52

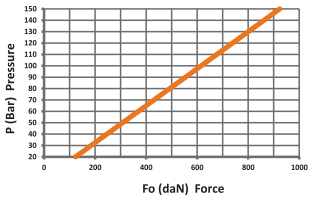


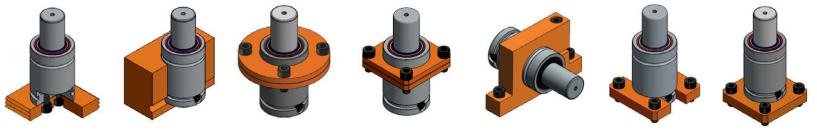
OTOMOTİV STANDARTLARI

- ISO 11901-3
  VDI 3003 - Blatt 3
- B8 3180 220 000 004 (MB)
- B2 4005 (BMW)
  W-DX35-6204 (Ford)
- E24.54.815.G(PSA)
  39D 997 (VW)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **6.15 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**

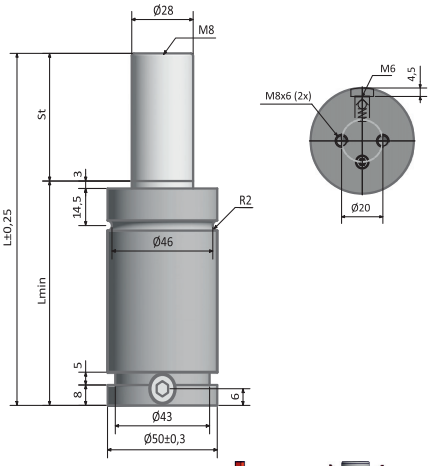




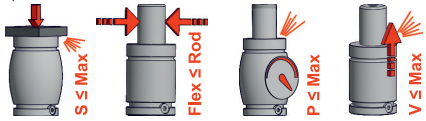


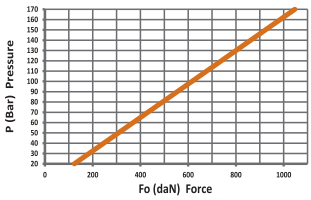
ME1200 ME Serisi Gazlı Yaylar

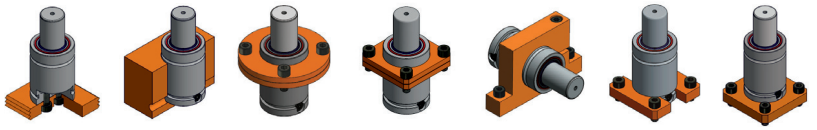
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME1200-010A	**10**	58	48			0,58
ME1200-013A	**13**	64	51			0,60
ME1200-016A	**16**	70	54			0,63
ME1200-019A	**19**	76	57			0,65
ME1200-025A	**25**	88	63	1000 Kg	2250 Kg	0,70
ME1200-032A	**32**	102	70			0,76
ME1200-038A	**38**	114	76			0,80
ME1200-050A	**50**	138	88			0,89
ME1200-063A	**63**	164	101			1,00
ME1200-075A	**75**	188	113			1,09
ME1200-080A	**80**	198	118			1,15
ME1200-100A	**100**	238	138			1,32
ME1200-125A	**125**	288	163			1,52



Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **6.15 cm²**
Maksimum Dolum Basıncı : **170 bar**
Maksimum Hız : **1,8 m/s**

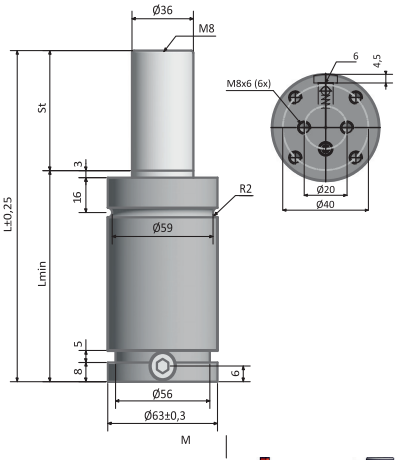






ME1500 ME Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME1500-010A	**10**	64	54			1,01
ME1500-013A	**13**	70	57			1,05
ME1500-016A	**16**	76	60			1,08
ME1500-019A	**19**	82	63			1,11
ME1500-025A	**25**	94	69	1550 Kg	2250 Kg	1,18
ME1500-032A	**32**	108	76			1,26
ME1500-038A	**38**	120	82			1,33
ME1500-050A	**50**	144	94			1,48
ME1500-063A	**63**	170	107			1,63
ME1500-075A	**75**	194	119			1,77
ME1500-080A	**80**	204	124			1,83
ME1500-100A	**100**	244	144			2,06
ME1500-125A	**125**	294	169			2,37



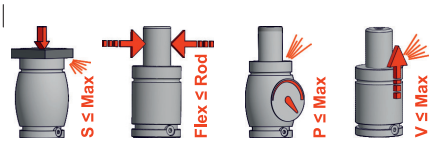
OTOMOTİV STANDARTLARI

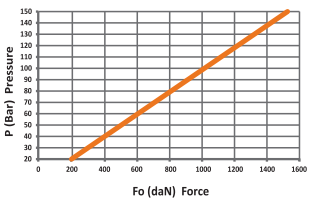
ISO 11901-3
VDI 3003 - Blatt 3

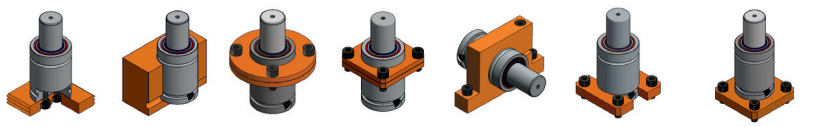
B8 3180 220 000 004 (MB)
39D 997 (VW)

B2 4005 (BMW)
W-DX35-6204 (Ford)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **10,18 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



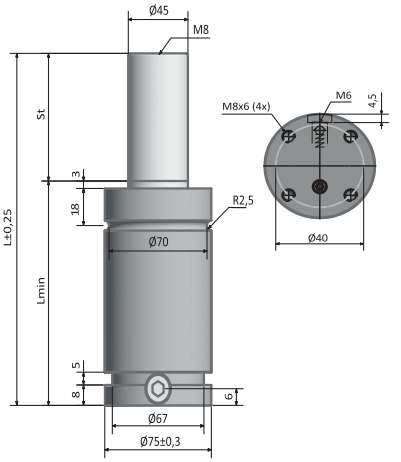




Bottom Mount | Drop - in | D 063 | DK 063 DKA 063 | TC 063 TD 063 | C 063 - CA 063 CB 063 | K 050 - KB 050 - KC 050 KF 050 - K 063 - KC 063 K 075 - KB 075 - KC 075

ME2400 ME Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME2400-010A	**10**	65	55			1,43
ME2400-013A	**13**	71	58			1,48
ME2400-016A	**16**	77	61			1,53
ME2400-019A	**19**	83	64			1,57
ME2400-025A	**25**	95	70	1000 Kg	2250 Kg	1,66
ME2400-032A	**32**	109	77			1,78
ME2400-038A	**38**	121	83			1,88
ME2400-050A	**50**	145	95			2,06
ME2400-063A	**63**	171	108			2,27
ME2400-075A	**75**	195	120			2,45
ME2400-080A	**80**	205	125			2,53
ME2400-100A	**100**	245	145			2,84
ME2400-125A	**125**	295	170			3,22



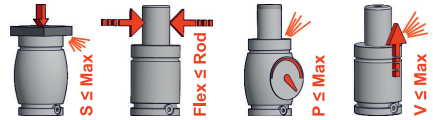
OTOMOTİV STANDARTLARI

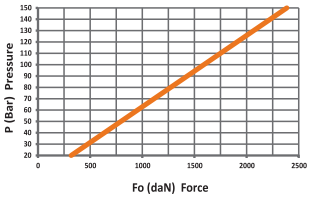
ISO 11901-3
VDI 3003 - Blatt 3

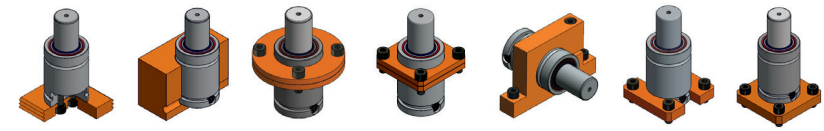
B8 3180 220 000 004 (MB)
39D 997 (VW)

B2 4005 (BMW)
W-DX35-6204 (Ford)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **15,90 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



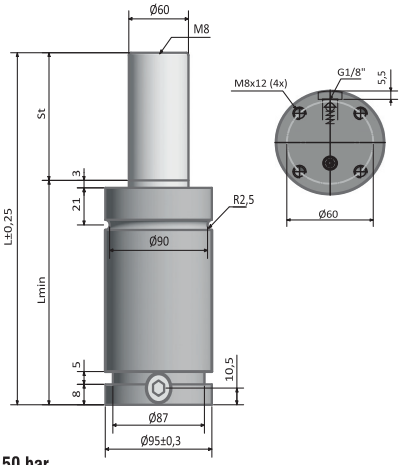




Bottom Mount | Drop - in | D 075 | DK 075 | TA 075 - TD 075 TE 075 - TT 075 | CB 075 C 075 | K 075 - KB 075 KC 075 - KF 075

ME4200 ME Serisi Gazlı Yaylar

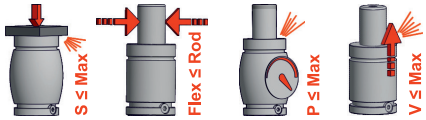
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME4200-010A	**16**	90	74			3,05
ME4200-013A	**19**	96	77			3,13
ME4200-016A	**25**	108	83			3,27
ME4200-019A	**32**	122	90			3,45
ME4200-025A	**38**	134	96	1550 Kg	2250 Kg	3,59
ME4200-032A	**50**	158	108			3,89
ME4200-038A	**63**	184	121			4,21
ME4200-050A	**75**	208	133			4,51
ME4200-063A	**80**	218	138			4,63
ME4200-075A	**100**	258	158			5,13
ME4200-080A	**125**	308	183			5,75

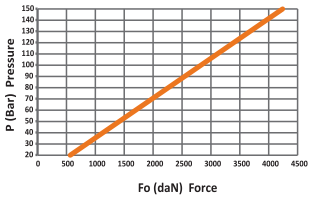


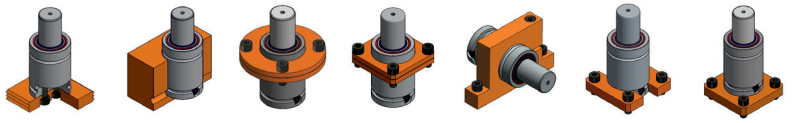
OTOMOTİV STANDARTLARI

- ISO 11901-3 VDI 3003 - Blatt 3
- B8 3180 220 000 004 (MB) 39D 997(VW)
- E24.54.815.G(PSA) PG 24D(Mazda)
- 075.90.60 (FCA)
- B2 4005 (BMW) W-DX35-6204(Ford)

Çalışma Sıcaklığı: **0-80 °C**
Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **28,27 cm²**
Maksimum Hız : **1,8 m/s**

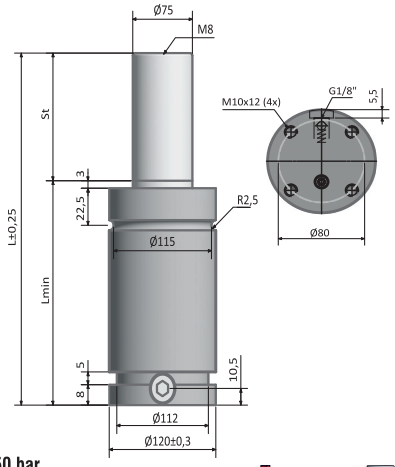






ME6600 ME Serisi Gazlı Yaylar

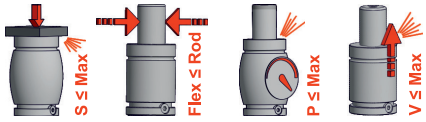
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME6600-010A	**16**	100	84			5,60
ME6600-013A	**19**	106	87			5,72
ME6600-016A	**25**	118	93			5,96
ME6600-019A	**32**	132	100			6,24
ME6600-025A	**38**	144	106	1550 Kg	2250 Kg	6,47
ME6600-032A	**50**	168	118			6,95
ME6600-038A	**63**	194	131			7,47
ME6600-050A	**75**	218	143			7,94
ME6600-063A	**80**	228	148			8,14
ME6600-075A	**100**	268	168			8,93
ME6600-080A	**125**	318	193			9,92

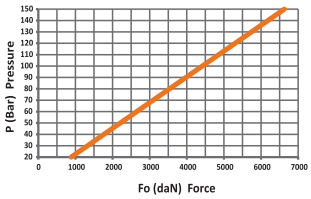


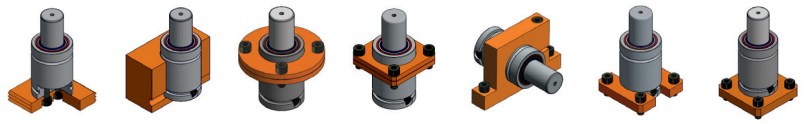
OTOMOTİV STANDARTLARI

- ISO 11901-3 VDI 3003 - Blatt 3
- B8 3180 220 000 004 (MB) 39D 997(VW)
- 075.90.60 (FCA)
- B2 4005 (BMW) W-DX35-6204(Ford)

Çalışma Sıcaklığı: **0-80 °C**
Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **44,18 cm²**
Maksimum Hız : **1,8 m/s**

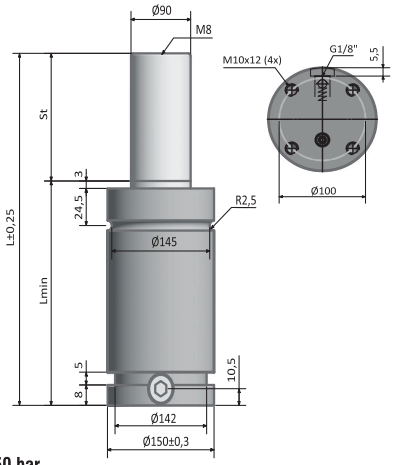






ME9500 ME Serisi Gazlı Yaylar

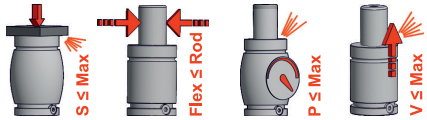
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME9500-019A	**19**	116	97			10,34
ME9500-025A	**25**	128	103			10,66
ME9500-032A	**32**	142	110			11,14
ME9500-038A	**38**	154	116			11,52
ME9500-050A	**50**	178	128	1550 Kg	2250 Kg	12,26
ME9500-063A	**63**	204	141			13,07
ME9500-075A	**75**	228	153			13,81
ME9500-080A	**80**	238	158			14,13
ME9500-100A	**100**	278	178			15,37
ME9500-125A	**125**	328	203			16,92

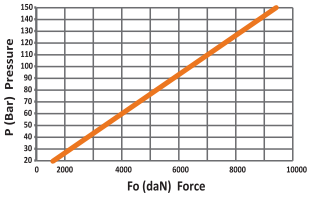


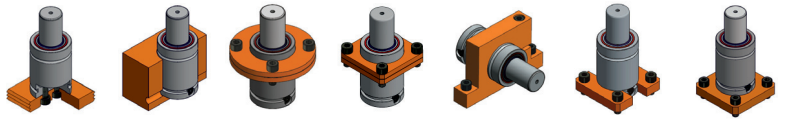
OTOMOTİV STANDARTLARI

- ISO 11901-3
  VDI 3003 - Blatt 3
- B8 3180 220 000 004 (MB)
  39D 997(VW)
- PG 24D(Mazda)
  075.90.60 (FCA)
- B2 4005 (BMW)
  W-DX35-6204(Ford)

Çalışma Sıcaklığı: **0-80 °C**
Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **63,62 cm²**
Maksimum Hız : **1,8 m/s**

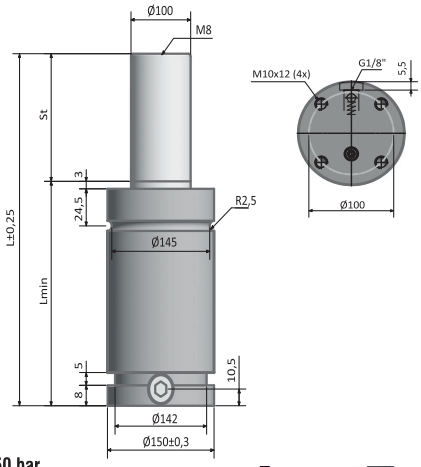




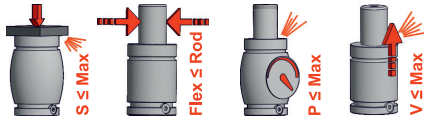


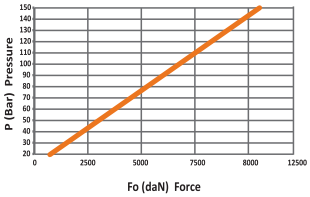
ME12000 ME Serisi Gazlı Yaylar

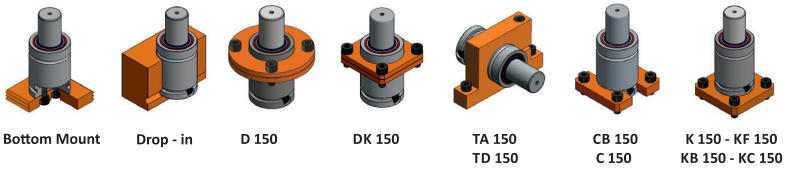
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME12000-019A	**19**	116	97			10,05
ME12000-025A	**25**	128	103			10,14
ME12000-032A	**32**	142	110			10,81
ME12000-038A	**38**	154	116			11,20
ME12000-050A	**50**	178	128	1550 Kg	2250 Kg	11,97
ME12000-063A	**63**	204	141			12,81
ME12000-075A	**75**	228	153			13,59
ME12000-080A	**80**	238	158			13,91
ME12000-100A	**100**	278	178			15,20
ME12000-125A	**125**	328	203			16,82



Çalışma Sıcaklığı: **0-80 °C**
Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **78,54 cm²**
Maksimum Hız : **1,8 m/s**

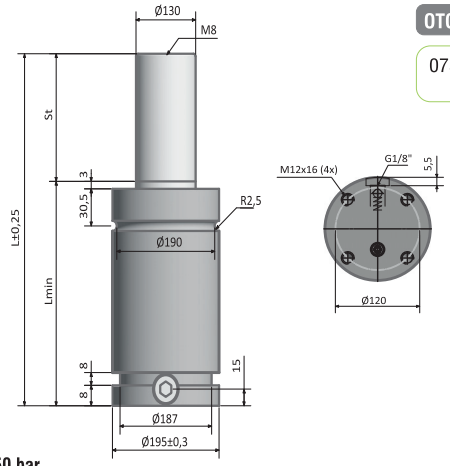






ME20000 ME Serisi Gazlı Yaylar

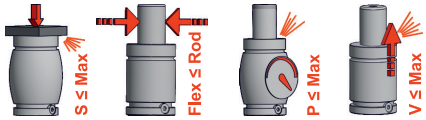
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
ME20000-019A	**19**	148	129			23,47
ME20000-025A	**25**	160	135			24,17
ME20000-032A	**32**	174	142			24,99
ME20000-038A	**38**	186	148			25,68
ME20000-050A	**50**	210	160	1550 Kg	2250 Kg	27,09
ME20000-063A	**63**	236	173			28,62
ME20000-075A	**75**	260	185			30,00
ME20000-080A	**80**	270	190			30,59
ME20000-100A	**100**	310	210			32,92
ME20000-125A	**125**	360	235			35,83

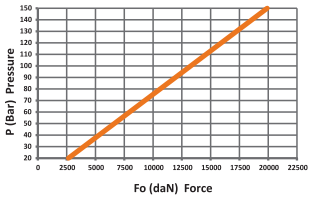


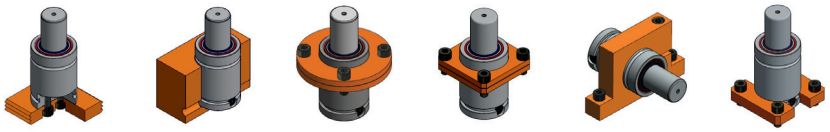
OTOMOTİV STANDARTLARI

075.90.60 (FCA)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı: **132,73 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**

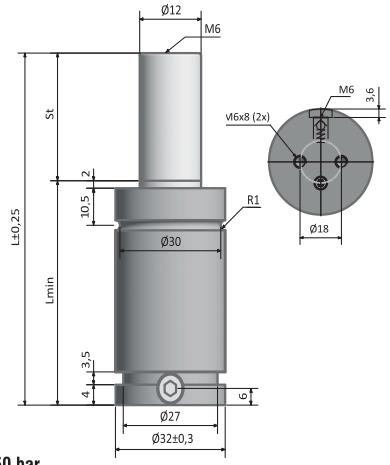






MY00150 MY Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MY00150-010A	**10**	70	60			0,43
MY00150-013A	**12,7**	75,4	62,7			0,43
MY00150-016A	**16**	82	66			0,45
MY00150-025A	**25**	100	75			0,47
MY00150-038A	**38**	126	88	1550 Kg	2250 Kg	0,49
MY00150-050A	**50**	150	100			0,54
MY00150-063A	**63**	177	113,5			0,60
MY00150-080A	**80**	210	130			0,65
MY00150-100A	**100**	250	150			0,72
MY00150-125A	**125**	300	175			0,81



OTOMOTİV STANDARTLARI

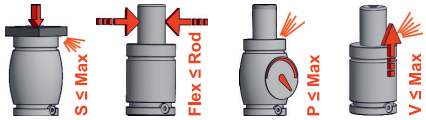
ISO 11901-3
VDI 3003

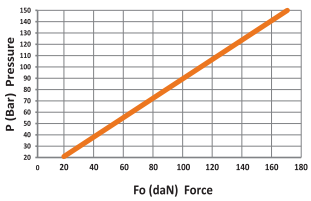
B8 3180 220 000 001 (MB)
39D 878(VW)

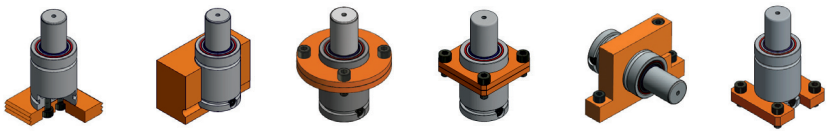
075.90.60 (FCA)
EM24.54.700(Renault)

B2 4006 (BMW)
E24.54.815.G(PSA)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı: **1,13 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**

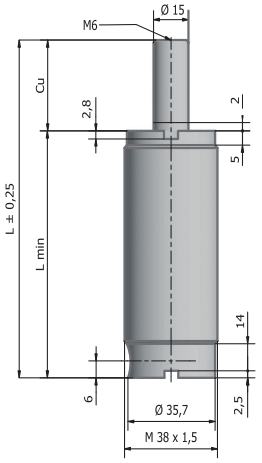


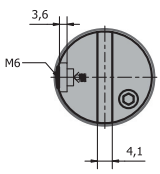


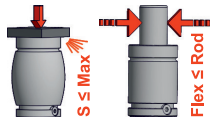


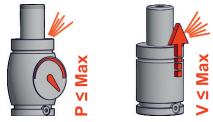
MY00250 M38 MY Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MY00250-10 M38	**10**	70	60			0,43
MY00250-13 M38	**12,7**	75,4	62,7			0,43
MY00250-16 M38	**16**	82	66			0,45
MY00250-19 M38	**19**	88	69			0,47
MY00250-25 M38	**25**	100	75	1550 Kg	2250 Kg	0,49
MY00250-38 M38	**38**	126	88			0,54
MY00250-50 M38	**50**	150	100			0,60
MY00250-63 M38	**63**	177	113,5			0,65
MY00250-80 M38	**80**	210	130			0,72
MY00250-100 M38	**100**	250	150			0,81
MY00250-125 M38	**125**	300	175			0,91

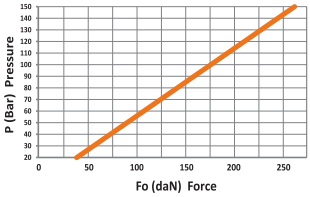


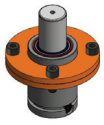


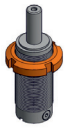




Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **1,77 cm²** Maksimum Hız : **1,8 m/s**

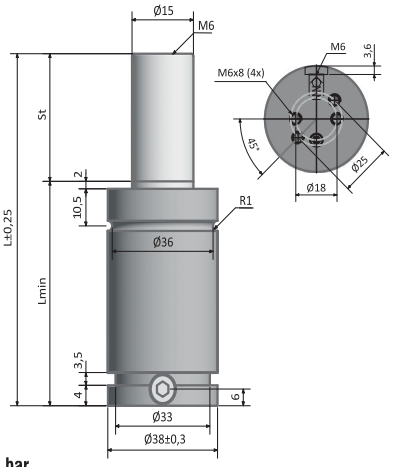



DA 038


M38x1,5

MY00250 MY Serisi Gazlı Yaylar

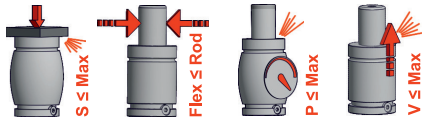
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MY00250-10A	**10**	70	60			0,43
MY00250-13A	**12,7**	75,4	62,7			0,43
MY00250-16A	**16**	82	66			0,45
MY00250-19A	**19**	88	69			0,47
MY00250-25A	**25**	100	75	1550 Kg	2250 Kg	0,49
MY00250-38A	**38**	126	88			0,54
MY00250-50A	**50**	150	100			0,60
MY00250-63A	**63**	177	113,5			0,65
MY00250-80A	**80**	210	130			0,72
MY00250-100A	**100**	250	150			0,81
MY00250-125A	**125**	300	175			0,91

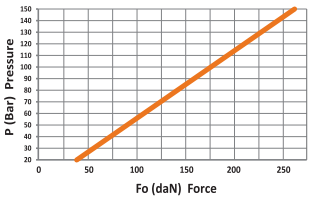


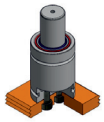
OTOMOTİV STANDARTLARI

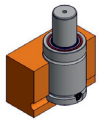
- ISO 11901-3
  VDI 3003
- B8 3180 220 000 001 (MB)
  39D 878(VW)
- K 32 S (Nissan)
  SES-K 5404e (Suzuki)
- 075.90.60 (FCA)
  EM24.54.700 (Renault)
- B2 4006 (BMW)
  E24.54.815.G(PSA)

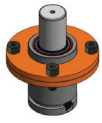
Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **1,77 cm²** Maksimum Hız : **1,8 m/s**

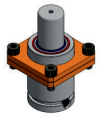




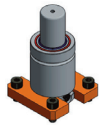

Bottom Mount


Drop - in


D 038

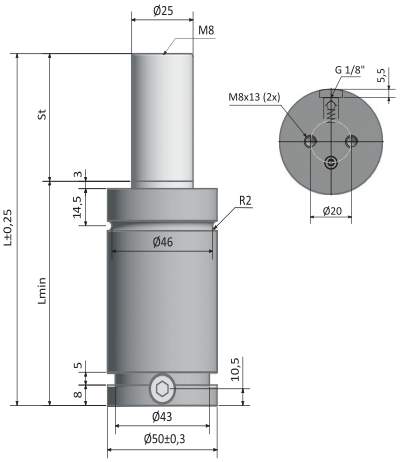

DK 038


TA 038
TD 038


CB 038
CA 038

MY00750 MY Serisi Gazlı Yaylar

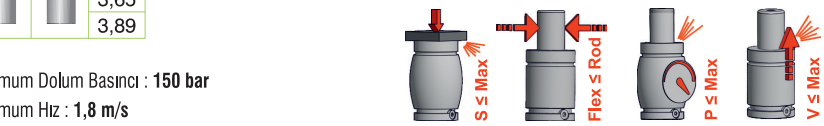
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MY00750-13A	**12,7**	120,4	107,7			1,40
MY00750-25A	**25**	145	120			1,49
MY00750-38A	**38**	171	133			1,59
MY00750-50A	**50**	195	145			1,68
MY00750-63A	**63,5**	222	158,5			1,79
MY00750-75A	**75**	245	170			1,87
MY00750-80A	**80**	255	175			1,91
MY00750-88A	**88**	270	182			1,94
MY00750-100A	**100**	295	195	1550 Kg	2250 Kg	2,07
MY00750-113A	**113**	320	207			2,15
MY00750-125A	**125**	345	220			2,26
MY00750-138A	**138**	370	232			2,35
MY00750-150A	**150**	395	245			2,48
MY00750-160A	**160**	415	255			2,57
MY00750-170A	**175**	445	270			2,71
MY00750-200A	**200**	495	295			2,95
MY00750-225A	**225**	545	320			3,18
MY00750-250A	**250**	595	345			3,42
MY00750-275A	**275**	645	370			3,65
MY00750-300A	**300**	695	395			3,89

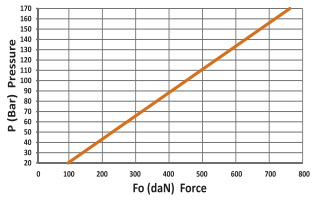


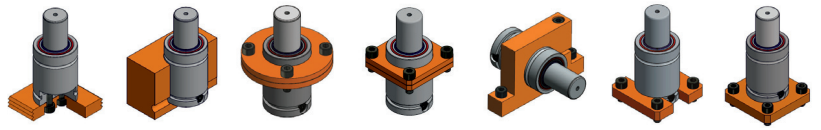
OTOMOTİV STANDARTLARI

- ISO 11901-1
  VDI 3003
- B8 3180 220 000 001 (MB)
  39D 878(VW)
- K 32 S (Nissan)
  SES-K 5404e (Suzuki)
- 075.90.60 (FCA)
  EM24.54.700 (Renault)
- B2 4006 (BMW)
  E24.54.815.G(PSA)
- PG23D (Mazda)
  W.DX35-6203(Ford)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **4,91 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



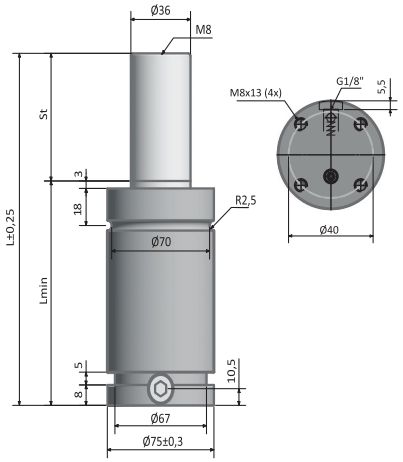




Bottom Mount | Drop - in | D 050 | DK 050 | TA 050 - TD 050 TE 050 - TT 050 | CB 050 C 050 | K 050 - KB 050 KC 050 - KF 050

MY01500 MY Serisi Gazlı Yaylar

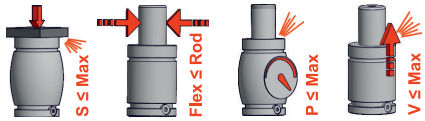
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MY01500-13A	**13**	135	122			3,60
MY01500-25A	**25**	160	135			3,78
MY01500-38A	**38**	186	148			3,97
MY01500-50A	**50**	210	160			4,14
MY01500-63A	**63,5**	237	173,5			4,33
MY01500-75A	**75**	260	185			4,50
MY01500-80A	**80**	270	190			4,57
MY01500-88A	**88**	285	197			4,68
MY01500-100A	**100**	310	210	1550	2250	4,86
MY01500-113A	**113**	335	222	Kg	Kg	5,03
MY01500-125A	**125**	360	235			5,21
MY01500-138A	**138**	385	247			5,38
MY01500-150A	**150**	410	260			5,57
MY01500-160A	**160**	430	270			5,72
MY01500-170A	**175**	460	285			5,93
MY01500-200A	**200**	510	310			6,32
MY01500-225A	**225**	560	335			6,77
MY01500-250A	**250**	610	360			7,23
MY01500-275A	**275**	660	385			7,68
MY01500-300A	**300**	710	410			8,14

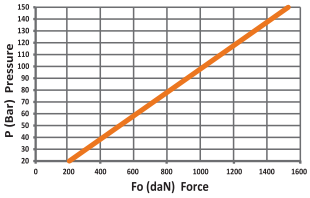


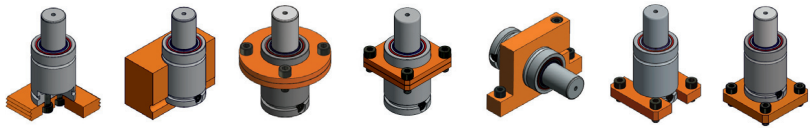
OTOMOTİV STANDARTLARI

- ISO 11901-1
  VDI 3003
- B8 3180 220 000 001 (MB)
  39D 878(VW)
- K 32 S (Nissan)
  SES-K 5404e (Suzuki)
- 075.90.60 (FCA)
  EM24.54.700 (Renault)
- B2 4006 (BMW)
  E24.54.815.G(PSA)
- PG23D (Mazda)
  W.DX35-6203(Ford)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **10,18 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



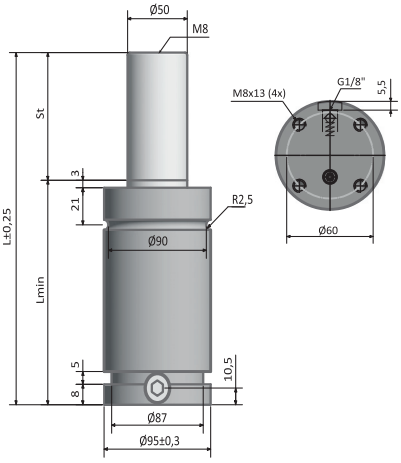




Bottom Mount | Drop - in | D 075 | DK 075 | TA 075 - TD 075 TE 075 - TT 075 | CB 075 C 075 | K 075 - KB 075 KC 075 - KF 075

MY03000 MY Serisi Gazlı Yaylar

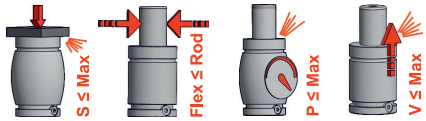
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MY03000-13A	**13**	145	132			6,20
MY03000-25A	**25**	170	145			6,48
MY03000-38A	**38**	196	158			6,78
MY03000-50A	**50**	220	170			7,06
MY03000-63A	**63,5**	247	183			7,37
MY03000-75A	**75**	270	195			7,64
MY03000-80A	**80**	280	200			7,76
MY03000-88A	**88**	295	207			7,91
MY03000-100A	**100**	320	220	1550 Kg	2250 Kg	8,22
MY03000-113A	**113**	345	232			8,49
MY03000-125A	**125**	370	245			8,80
MY03000-138A	**138**	395	257			9,07
MY03000-150A	**150**	420	270			9,38
MY03000-160A	**160**	440	280			9,61
MY03000-170A	**175**	470	295			9,96
MY03000-200A	**200**	520	320			10,53
MY03000-225A	**225**	570	345			11,12
MY03000-250A	**250**	620	370			11,69
MY03000-275A	**275**	670	395			12,27
MY03000-300A	**300**	720	420			12,85

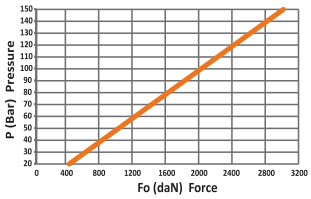


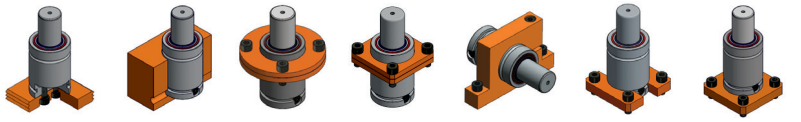
OTOMOTİV STANDARTLARI

- ISO 11901-1
  VDI 3003
- B8 3180 220 000 001 (MB)
  39D 878(VW)
- K 32 S (Nissan)
  SES-K 5404e (Suzuki)
- 075.90.60 (FCA)
  EM24.54.700 (Renault)
- B2 4006 (BMW)
  E24.54.815.G(PSA)
- PG23D (Mazda)
  W.DX35-6203(Ford)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **19,63 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



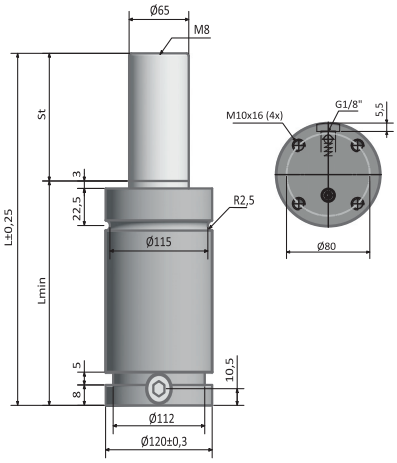




Bottom Mount | Drop - in | D 095 | DK 095 | TA 095 - TD 095 TE 095 - TT 095 | CB 095 C 095 | K 095 - KB 095 KC 095

MY05000 MY Serisi Gazlı Yaylar

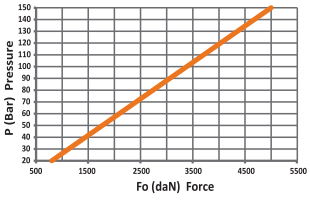
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MY0500013A	**13**	145	132			6,20
MY0500025A	**25**	170	145			6,48
MY0500038A	**38**	196	158			6,78
MY0500050A	**50**	220	170			7,06
MY0500063A	**63,5**	247	183			7,37
MY0500075A	**75**	270	195			7,64
MY0500080A	**80**	280	200			7,76
MY0500088A	**88**	295	207			7,91
MY05000100A	**100**	320	220	1550	2250	8,22
MY05000113A	**113**	345	232	Kg	Kg	8,49
MY05000125A	**125**	370	245			8,80
MY05000138A	**138**	395	257			9,07
MY05000150A	**150**	420	270			9,38
MY05000160A	**160**	440	280			9,61
MY05000170A	**175**	470	295			9,96
MY05000200A	**200**	520	320			10,53
MY05000225A	**225**	570	345			11,12
MY05000250A	**250**	620	370			11,69
MY05000275A	**275**	670	395			12,27
MY05000300A	**300**	720	420			12,85

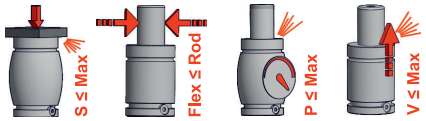


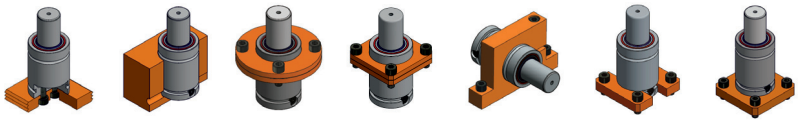
OTOMOTİV STANDARTLARI

- ISO 11901-1
  VDI 3003
- B8 3180 220 000 001 (MB)
  39D 878(VW)
- K 32 S (Nissan)
  SES-K 5404e (Suzuki)
- 075.90.60 (FCA)
  EM24.54.700 (Renault)
- B2 4006 (BMW)
  E24.54.815.G(PSA)
- PG23D (Mazda)
  W.DX35-6203(Ford)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **33,18 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



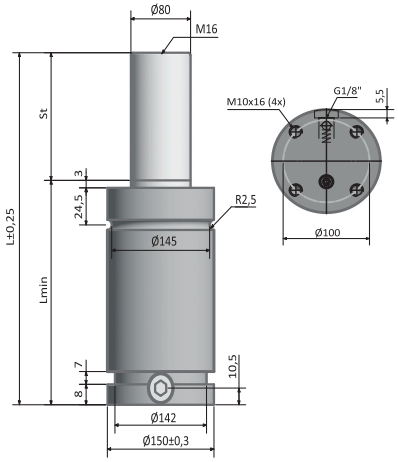




Bottom Mount | Drop - in | D 120 | DK 120 | TA 120 TD 120 | CB 120 C 120 | K 120 - KB 120 KC 120

MY07500 MY Serisi Gazlı Yaylar

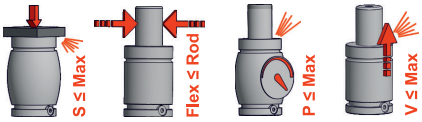
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MY07500-25A	**25**	205	180			20,05
MY07500-38A	**38**	231	193			20,82
MY07500-50A	**50**	255	205			21,54
MY07500-63A	**63,5**	282	218,5			22,34
MY07500-75A	**75**	305	230			23,03
MY07500-80A	**80**	315	235			23,33
MY07500-88A	**88**	330	242			23,76
MY07500-100A	**100**	355	255			24,52
MY07500-113A	**113**	380	267	1550	2250	25,26
MY07500-125A	**125**	405	280	Kg	Kg	26,02
MY07500-138A	**138**	430	292			26,75
MY07500-150A	**150**	455	305			27,50
MY07500-160A	**160**	475	315			28,10
MY07500-170A	**175**	505	330			29,00
MY07500-200A	**200**	555	355			30,49
MY07500-225A	**225**	605	380			31,98
MY07500-250A	**250**	655	405			33,47
MY07500-275A	**275**	705	430			34,96
MY07500-300A	**300**	755	455			36,45

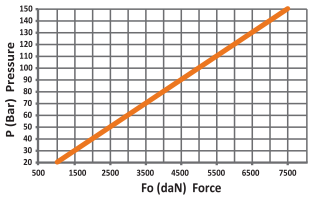


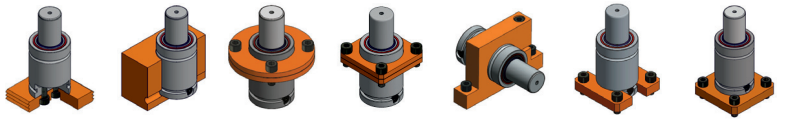
OTOMOTİV STANDARTLARI

- ISO 11901-1
  VDI 3003
- B8 3180 220 000 001 (MB)
  39D 878(VW)
- 075.90.60 (FCA)
  EM24.54.700 (Renault)
- B2 4006 (BMW)
  E24.54.815.G(PSA)
- PG23D (Mazda)
  W.DX35-6203(Ford)

Çalışma Sıcaklığı: **0-80 °C**
Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **50,27 cm²**
Maksimum Hız : **1,8 m/s**

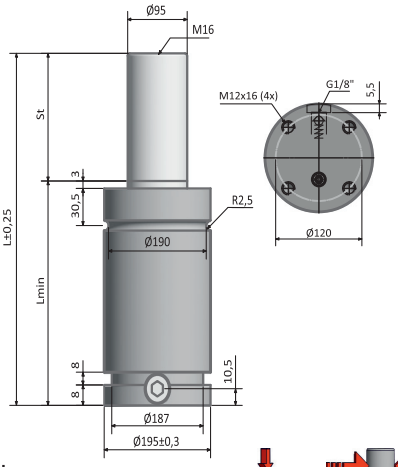






MY10000 MY Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MY10000-25A	**25**	210	185			35,82
MY10000-38A	**38**	236	198			37,15
MY10000-50A	**50**	260	210			38,37
MY10000-63A	**63,5**	287	223,5			39,75
MY10000-80A	**80**	320	240	1550 Kg	2250 Kg	41,43
MY10000-100A	**100**	360	260			43,47
MY10000-125A	**125**	410	285			46,02
MY10000-160A	**160**	480	320			49,60
MY10000-200A	**200**	560	360			5,95
MY10000-250A	**250**	660	410			60,56
MY10000-300A	**300**	760	460			67,17



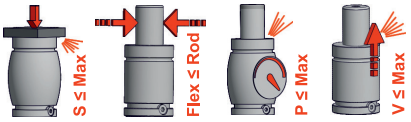
OTOMOTİV STANDARTLARI

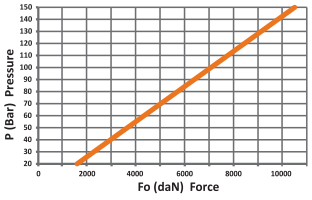
ISO 11901-1
VDI 3003

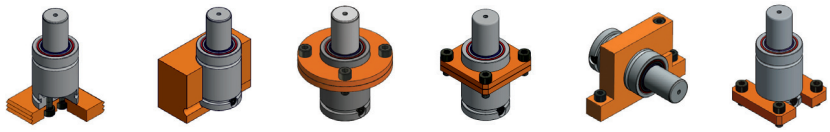
B8 3180 220 000 001 (MB)
39D 878(VW)

075.90.60 (FCA)
EM24.54.700 (Renault)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **70,88 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



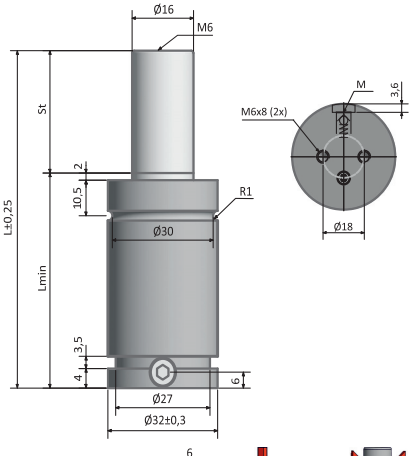




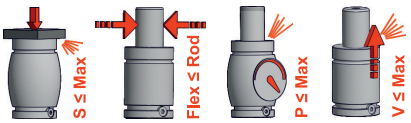
Bottom Mount | Drop - in | D 195 | DK 195 | CB 195 C 195 | K 195 - KB 195 KC 195

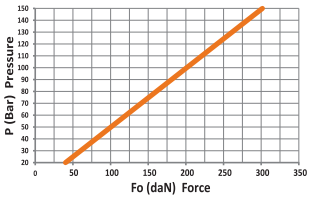
MP00300 MP Serisi Gazlı Yaylar

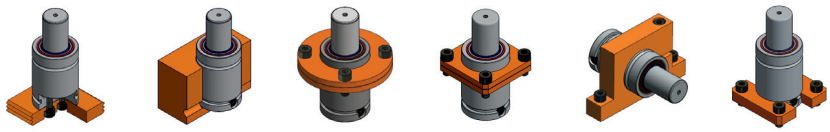
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP00300-10A	**10**	70	60			0,27
MP00300-13A	**13**	75,7	62,7			0,28
MP00300-16A	**16**	82	66			0,29
MP00300-25A	**25**	100	75			0,32
MP00300-38A	**38**	126	88	1550 Kg	2250 Kg	0,36
MP00300-50A	**50**	150	100			0,40
MP00300-63A	**63**	176,5	113,5			0,44
MP00300-80A	**80**	210	130			0,49
MP00300-100A	**100**	250	150			0,56
MP00300-125A	**125**	300	175			0,64



Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **2,01 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



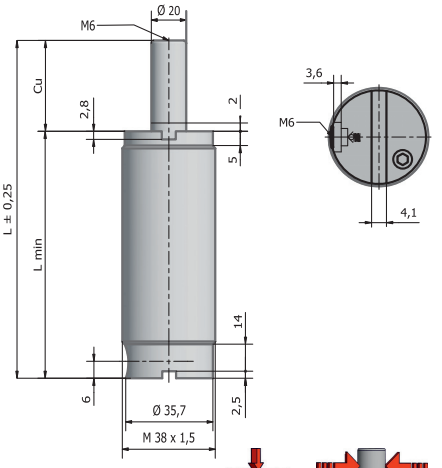




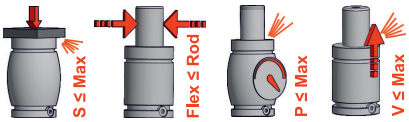
Bottom Mount | Drop - in | D 032 | DK 032 | TA 032 TD 032 | CB 032 CA 032

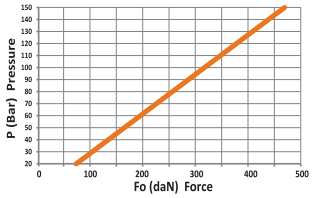
MP00500 MP Serisi Gazlı Yaylar

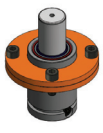
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP00500-10 M38	**10**	70	60			0,39
MP00500-13 M38	**13**	75,7	62,7			0,41
MP00500-16 M38	**16**	82	66			0,42
MP00500-19 M38	**19**	88	69			0,44
MP00500-25 M38	**25**	100	75	1550 Kg	2250 Kg	0,47
MP00500-38 M38	**38**	126	88			0,52
MP00500-50 M38	**50**	150	100			0,58
MP00500-63 M38	**63**	176,5	113,5			0,64
MP00500-80 M38	**80**	210	130			0,72
MP00500-100 M38	**100**	250	150			0,81
MP00500-125 M38	**125**	300	175			0,92

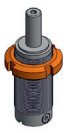


Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **3,14 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



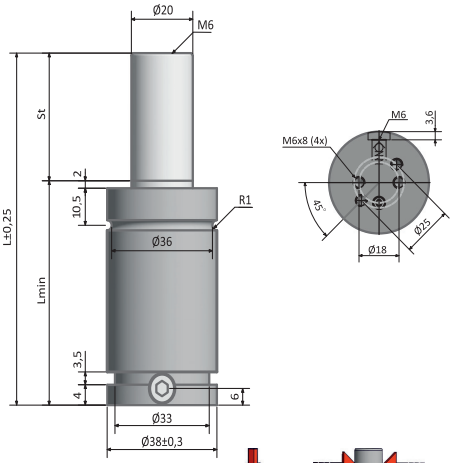



DA 038

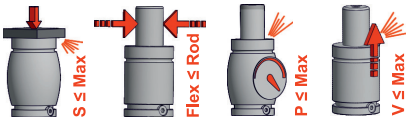

M38x1,5

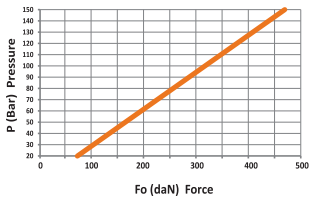
MP00500 MP Serisi Gazlı Yaylar

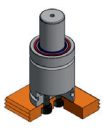
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP00500-10A	**10**	70	60			0,39
MP00500-13A	**13**	75,7	62,7			0,41
MP00500-16A	**16**	82	66			0,42
MP00500-19A	**19**	88	69			0,44
MP00500-25A	**25**	100	75	1550 Kg	2250 Kg	0,47
MP00500-38A	**38**	126	88			0,52
MP00500-50A	**50**	150	100			0,58
MP00500-63A	**63**	176,5	113,5			0,64
MP00500-80A	**80**	210	130			0,72
MP00500-100A	**100**	250	150			0,81
MP00500-125A	**125**	300	175			0,92

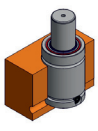


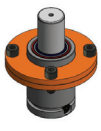
Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **3,14 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**

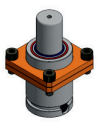




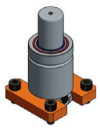

Bottom Mount


Drop - in


D 038

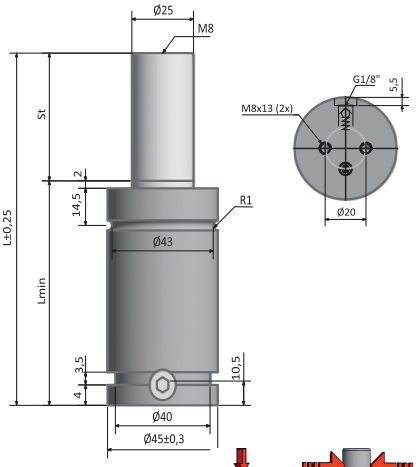

DK 038


TA 038
TD 038


CB 038
CA 038

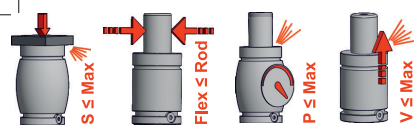
MP00750 MP Serisi Gazlı Yaylar

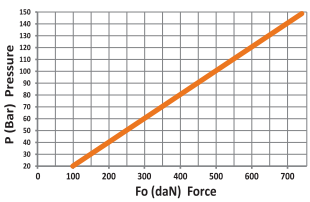
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP00750-10A	**10**	105	95			0,77
MP00750-13A	**13**	110,7	97,7			0,78
MP00750-25A	**25**	135	110			0,86
MP00750-38A	**38**	161	123			0,94
MP00750-50A	**50**	185	135	1550 Kg	2250 Kg	1,02
MP00750-63A	**63**	211,5	148,5			1,11
MP00750-80A	**80**	245	165			1,21
MP00750-100A	**100**	285	185			1,63
MP00750-125A	**125**	335	210			1,82
MP00750-160A	**160**	405	245			2,08

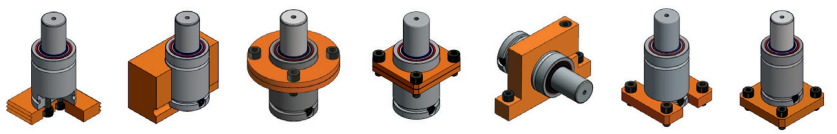


Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **4,91cm²**

Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



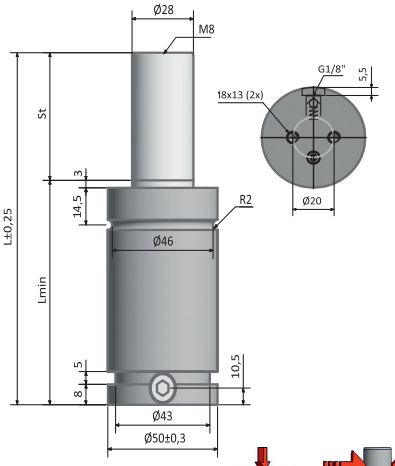




Bottom Mount | Drop - in | D 045 | DK 045 | TA 045 - TD 045 TE 045 - TT 050 | CB 045 C 045 | K 045 - KB 045 KC 045 - KF 045

MP01000 MP Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP01000-13A	**13**	120,7	107,7			1,39
MP01000-25A	**25**	145	120			1,48
MP01000-38A	**38**	171	133			1,58
MP01000-50A	**50**	195	145			1,68
MP01000-63A	**63**	221	158			1,78
MP01000-75A	**75**	245	170			1,88
MP01000-80A	**80**	255	175	1550 Kg	2250 Kg	1,92
MP01000-100A	**100**	295	195			2,08
MP01000-125A	**125**	345	220			2,28
MP01000-150A	**150**	395	245			2,48
MP01000-160A	**160**	415	255			2,55
MP01000-175A	**175**	445	270			2,67
MP01000-200A	**200**	495	295			2,87
MP01000-250A	**250**	595	345			3,26
MP01000-300A	**300**	695	395			3,66



OTOMOTİV STANDARTLARI

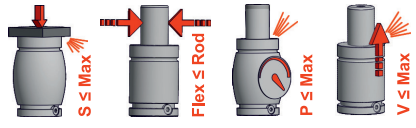
ISO 11901-1
VDI 3003 - Blatt 4

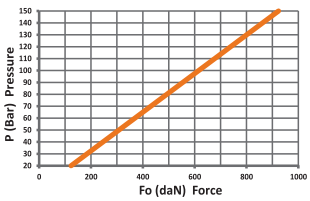
39D 878(VW)

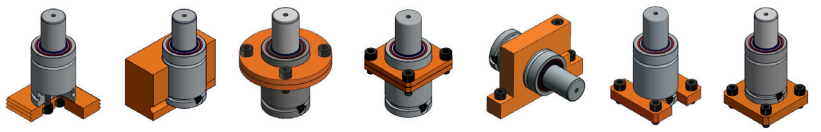
075.90.60 (FCA)
B2 4008 8 (BMW)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **6,15 cm²**

Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



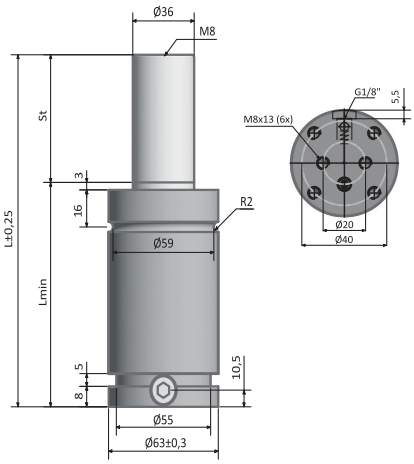




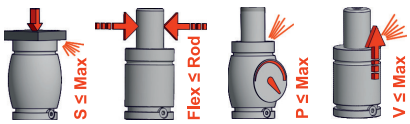
Bottom Mount | Drop - in | D 050 | DK 050 | TA 050 - TD 050 TE 050 - TT 050 | CB 050 C 050 | K 050 - KB 050 KC 050 - KF 050

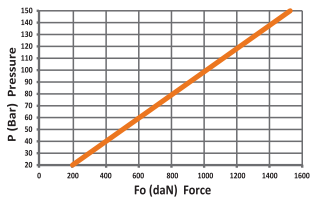
MP01500 MP Serisi Gazlı Yaylar

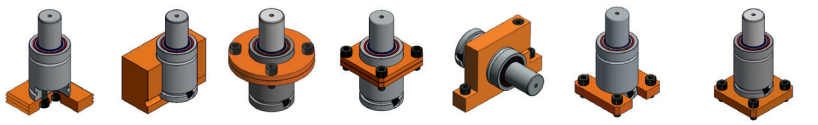
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP01500-13A	**13**	120,7	107,7			2,19
MP01500-25A	**25**	145	120			2,34
MP01500-38A	**38**	171	133			2,49
MP01500-50A	**50**	195	145			2,63
MP01500-63A	**63**	221	158			2,78
MP01500-75A	**75**	245	170			2,92
MP01500-80A	**80**	255	175	1550 Kg	2250 Kg	2,98
MP01500-100A	**100**	295	195			3,21
MP01500-125A	**125**	345	220			3,50
MP01500-150A	**150**	395	245			3,79
MP01500-160A	**160**	415	255			3,90
MP01500-175A	**175**	445	270			4,09
MP01500-200A	**200**	495	295			4,37
MP01500-250A	**250**	595	345			4,95
MP01500-300A	**300**	695	395			5,54



Çalışma Sıcaklığı: **0-80 °C**
Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **10,17 cm²**
Maksimum Hız : **1,8 m/s**



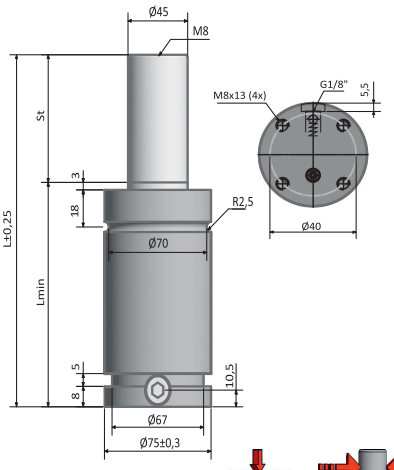




Bottom Mount | Drop - in | D 063 | DK 063 DKA 063 | TC 063 TD 063 | C 063 - CA 063 CB 063 | K 050 - KB 050 - KF 050 K 063 - KC 063 - K 075 KB 075 - KC 075 -KF 075

MP02400 MP Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP02400-25A	**25**	160	135			3,67
MP02400-38A	**38**	186	148			3,88
MP02400-50A	**50**	210	160			4,07
MP02400-63A	**63**	236	173			4,26
MP02400-75A	**75**	260	185			4,45
MP02400-80A	**80**	270	190			4,53
MP02400-100A	**100**	310	210	1550 Kg	2250 Kg	4,84
MP02400-125A	**125**	36	235			5,23
MP02400-150A	**150**	410	260			5,62
MP02400-160A	**160**	430	270			5,78
MP02400-175A	**175**	460	285			6,01
MP02400-200A	**200**	510	310			6,40
MP02400-250A	**250**	610	360			7,18
MP02400-275A	**275**	660	385			7,57
MP02400-300A	**300**	710	410			7,95

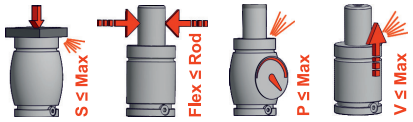


OTOMOTİV STANDARTLARI

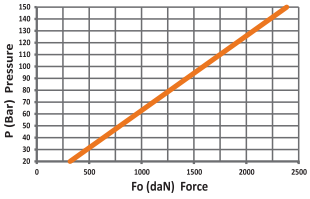
ISO 11901-1
VDI 3003 - Blatt 4

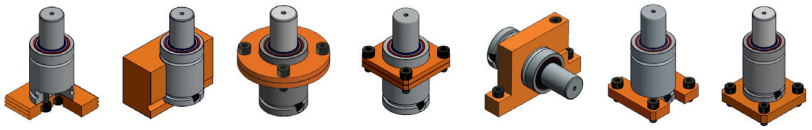
39D 878(VW)

075.90.60 (FCA)
B2 4008 8 (BMW)



Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **15,90 cm²** Maksimum Hız : **1,8 m/s**

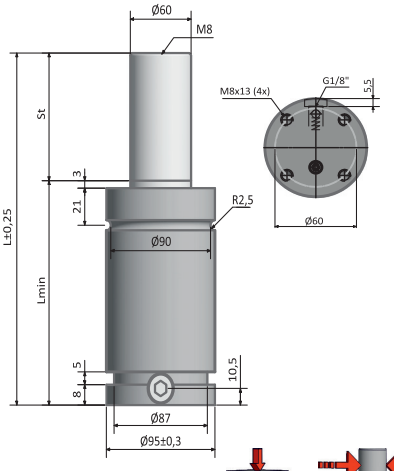




Bottom Mount | Drop - in | D 075 | DK 075 | TA 075 - TD 075 TE 075 - TT 075 | CB 075 C 075 | K 075 - KB 075 KC 075 - KF 075

MP04200 MP Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP04200-25A	**25**	170	145			6,27
MP04200-38A	**38**	196	158			6,66
MP04200-50A	**50**	220	170			6,93
MP04200-63A	**63**	246	183			7,28
MP04200-75A	**75**	270	195			7,59
MP04200-80A	**80**	280	200			7,73
MP04200-100A	**100**	320	220	1550 Kg	2250 Kg	8,26
MP04200-125A	**125**	370	245			8,92
MP04200-150A	**150**	420	270			9,57
MP04200-160A	**160**	440	280			9,84
MP04200-175A	**175**	470	295			10,24
MP04200-200A	**200**	520	320			10,90
MP04200-250A	**250**	620	370			12,22
MP04200-300A	**300**	720	420			13,54

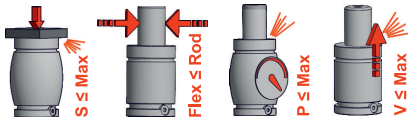


OTOMOTİV STANDARTLARI

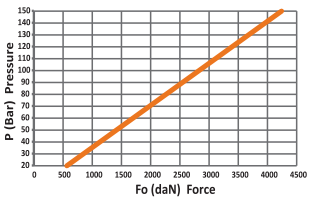
ISO 11901-4
VDI 3003 - Blatt 4

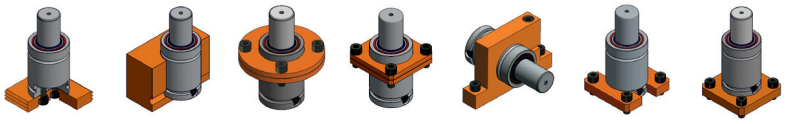
39D 838(VW)

075.90.65 (FCA)
B2 4008 (BMW)



Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **28,27 cm²** Maksimum Hız : **1,8 m/s**

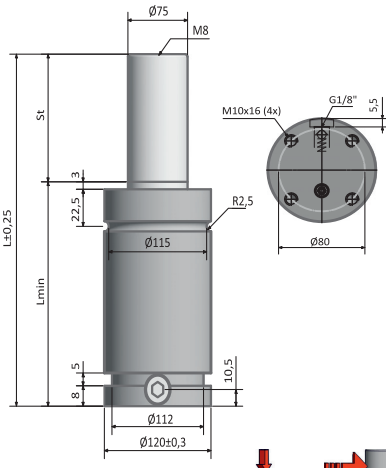




Bottom Mount | Drop - in | D 095 | DK 095 | TA 095 - TD 095 TE 095 - TT 095 | CB 095 C 095 | K 095 - KB 095 KC 095

MP06600 MP Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP06600-25A	**25**	190	165			11,09
MP06600-38A	**38**	216	178			11,60
MP06600-50A	**50**	240	190			12,08
MP06600-63A	**63**	266	203			12,59
MP06600-75A	**75**	290	215			13,07
MP06600-80A	**80**	300	220			13,26
MP06600-100A	**100**	340	240	1550 Kg	2250 Kg	14,06
MP06600-125A	**125**	390	265			15,05
MP06600-150A	**150**	440	290			16,29
MP06600-160A	**160**	460	300			16,69
MP06600-175A	**175**	490	315			17,13
MP06600-200A	**200**	540	340			18,02
MP06600-250A	**250**	640	390			20,00
MP06600-300A	**300**	740	440			22,09

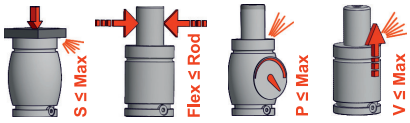


OTOMOTİV STANDARTLARI

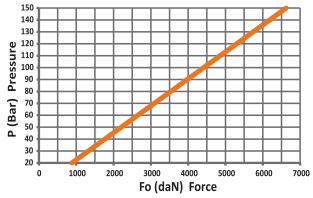
ISO 11901-4
VDI 3003 - Blatt 4

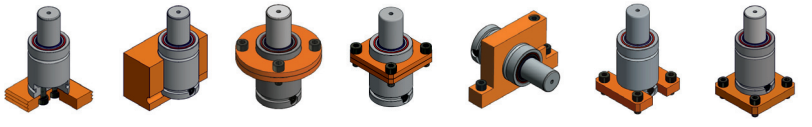
39D 838(VW)

075.90.65 (FCA)
B2 4008 (BMW)



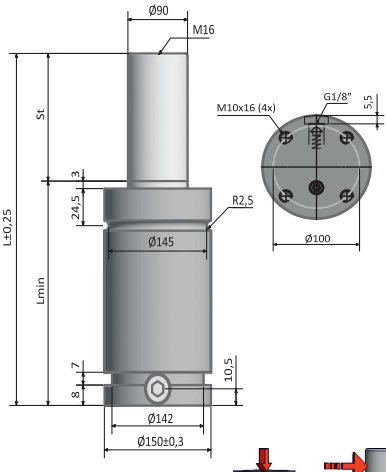
Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **44,18 cm²** Maksimum Hız : **1,8 m/s**





MP09500 MP Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP09500-25A	**25**	205	180			19,52
MP09500-38A	**38**	231	193			20,33
MP09500-50A	**50**	255	205			21,08
MP09500-63A	**63**	281	218			21,88
MP09500-75A	**75**	305	230			22,63
MP09500-80A	**80**	315	235			22,94
MP09500-100A	**100**	355	255	1550 Kg	2250 Kg	24,18
MP09500-125A	**125**	405	280			25,73
MP09500-150A	**150**	455	305			27,29
MP09500-160A	**160**	475	315			27,91
MP09500-175A	**175**	505	330			29,00
MP09500-200A	**200**	555	355			30,55
MP09500-250A	**250**	655	405			33,50
MP09500-300A	**300**	755	455			36,60

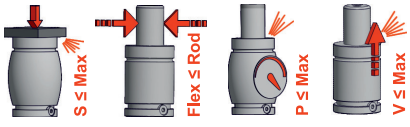


OTOMOTİV STANDARTLARI

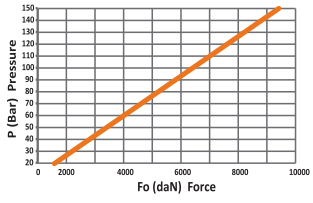
ISO 11901-4
VDI 3003 - Blatt 4

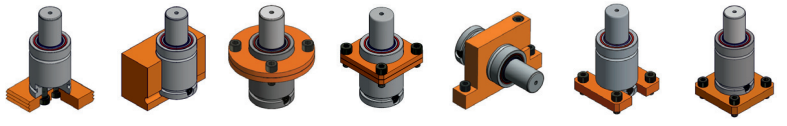
39D 838(VW)

075.90.65 (FCA)
B2 4008 (BMW)



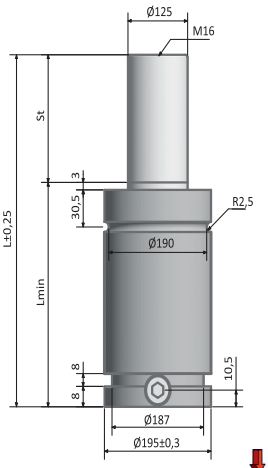
Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **63,62 cm²** Maksimum Hız : **1,8 m/s**

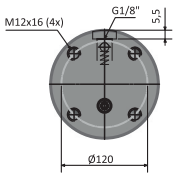


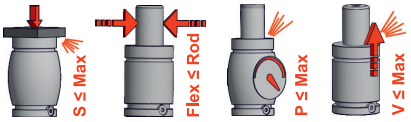


MP18500 MP Serisi Gazlı Yaylar

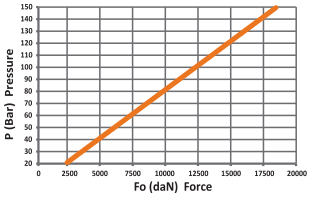
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MP18500-25A	**25**	210	185	1550 Kg	2250 Kg	34,09
MP18500-38A	**38**	236	198			34,74
MP18500-50A	**50**	260	210			36,87
MP18500-63A	**63**	286	223			38,20
MP18500-80A	**80**	320	240			40,21
MP18500-100A	**100**	360	260			42,43
MP18500-125A	**125**	410	285			45,21
MP18500-160A	**160**	480	320			49,11
MP18500-200A	**200**	560	360			53,56
MP18500-250A	**250**	660	410			59,13
MP18500-300A	**300**	760	460			64,13

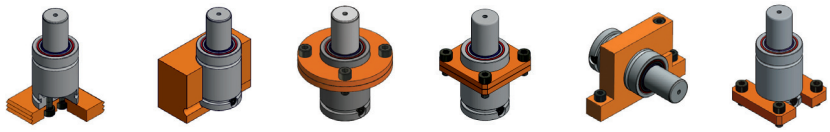






Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **122,70 cm²** Maksimum Hız : **1,8 m/s**

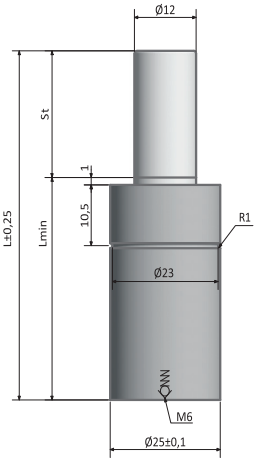


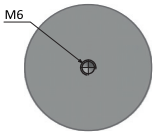


Bottom Mount | Drop - in | D 195 | DK 195 | CB 195 C 195 | K 195 - KB 195 KC 195

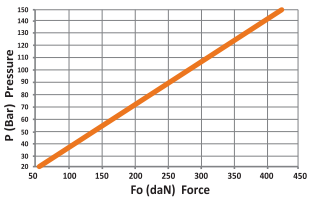
MO00420 MO Serisi Gazlı Yaylar

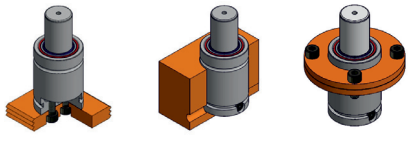
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MO00420-006A	**6**	56	50	1550 Kg	2250 Kg	0,16
MO00420-010A	**10**	70	60			0,19
MO00420-016A	**16**	91	75			0,23
MO00420-025A	**25**	120	95			0,28
MO00420-032A	**32**	140	108			0,32
MO00420-040A	**40**	165	125			0,36
MO00420-050A	**50**	195	145			0,41





Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **2,84 cm²** Maksimum Hız : **1,8 m/s**

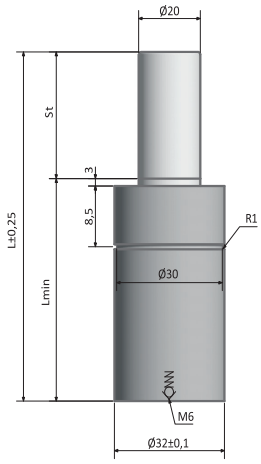


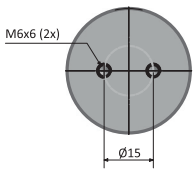


Bottom Mount | Drop - in | D 025 DF 025

MO00750 MO Serisi Gazlı Yaylar

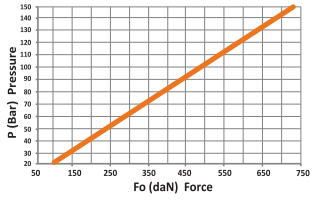
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MO00750-006A	**6**	63	57	1550 Kg	2250 Kg	0,31
MO00750-010A	**10**	75	65			0,33
MO00750-016A	**16**	93	77			0,39
MO00750-025A	**25**	120	95			0,45
MO00750-032A	**32**	140	108			0,50
MO00750-040A	**40**	165	125			0,56
MO00750-050A	**50**	195	145			0,63

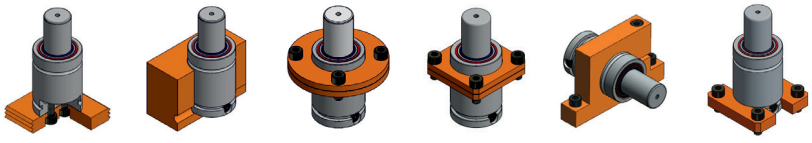




Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **4,91cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



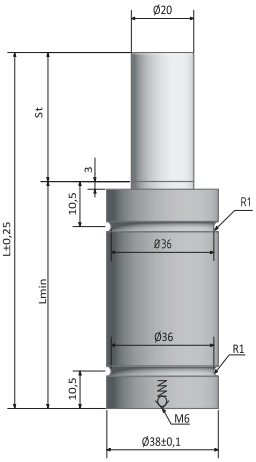




Bottom Mount | Drop - in | D 032 | DK 032 | TA 032 TD 032 | CB 032 CA 032

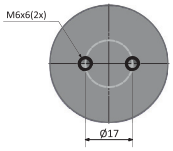
MO01000 MO Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MO01000-006A	**6**	61	55	1550 Kg	2250 Kg	0,42
MO01000-010A	**10**	78	68			0,49
MO01000-016A	**16**	100	84			0,55
MO01000-025A	**25**	135	110			0,66
MO01000-032A	**32**	167	135			0,75
MO01000-040A	**40**	195	155			0,83
MO01000-050A	**50**	230	180			0,93



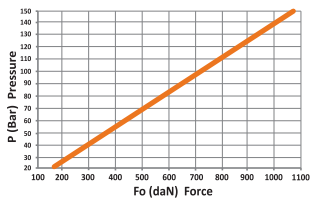
OTOMOTİV STANDARTLARI

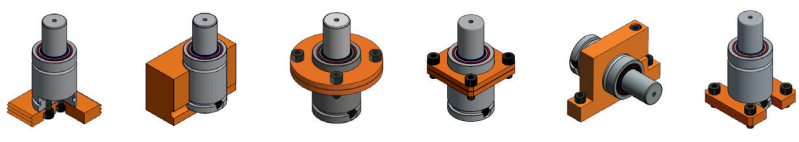
B2 4006 (BMW)
E24.54.185.G(PSA)



Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **7,07cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



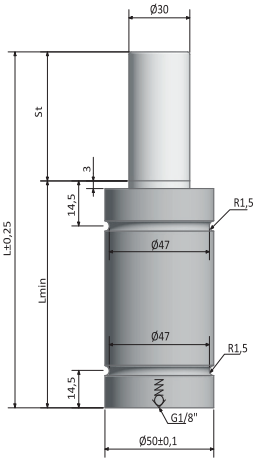


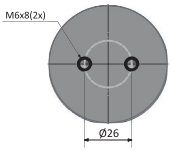


Bottom Mount | Drop - in | D 038 | DK 038 | TA 038 TD 038 | CB 038 CA 038

MO01800 MO Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MO01800-006A	**6**	66	60	1550 Kg	2250 Kg	0,78
MO01800-010A	**10**	80	70			0,86
MO01800-016A	**16**	106	90			0,99
MO01800-025A	**25**	135	110			1,15
MO01800-032A	**32**	162	130			1,33
MO01800-040A	**40**	190	150			1,48
MO01800-050A	**50**	220	170			1,59
MO01800-065A	**65**	271	206			1,86



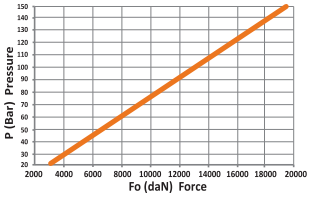


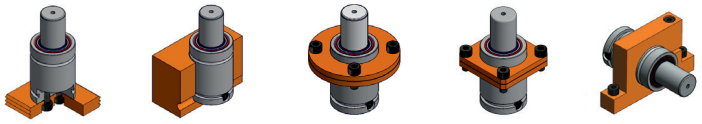
OTOMOTİV STANDARTLARI

B2 4006 (BMW)
E24.54.185.G(PSA)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **12,57cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



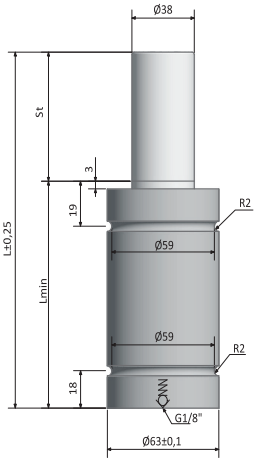


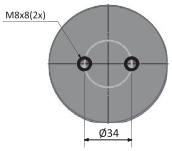


Bottom Mount | Drop - in | DB 050 | DKB 050 | TA 050 TD 050

MO03000 MO Serisi Gazlı Yaylar

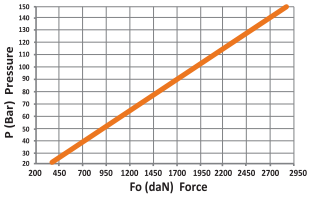
Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MO03000-010A	**10**	85	75	1550 Kg	2250 Kg	1,54
MO03000-016A	**16**	103	87			1,71
MO03000-025A	**25**	130	105			1,95
MO03000-032A	**32**	150	118			2,14
MO03000-040A	**40**	175	135			2,38
MO03000-050A	**50**	205	155			2,63
MO03000-065A	**65**	256	191			3,15

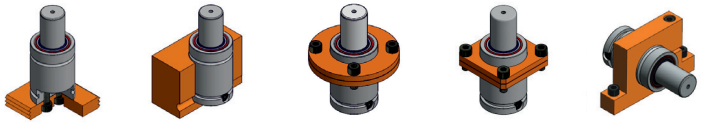




Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı : **19,63 cm²**
Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



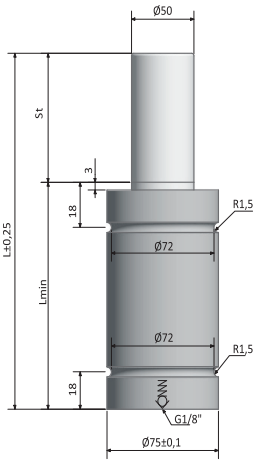


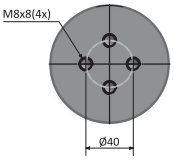


Bottom Mount | Drop - in | D 063 | DKA 063 DK 063 | TD 063 TC 063

MO04700 MO Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MO04700-010A	**10**	80	70	1550 Kg	2250 Kg	1,92
MO04700-016A	**16**	106	90			2,18
MO04700-025A	**25**	135	110			2,45
MO04700-032A	**32**	167	135			2,79
MO04700-040A	**40**	200	160			3,09
MO04700-050A	**50**	240	190			3,48
MO04700-065A	**65**	273	208			3,79



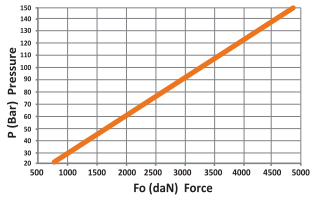


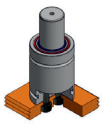
OTOMOTİV STANDARTLARI

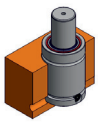
B2 4006 (BMW)
E24.54.185.G(PSA)

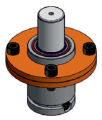
Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **31,17 cm²** Maksimum Hız : **1,8 m/s**

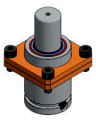




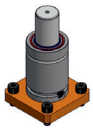

Bottom Mount


Drop - in


DB 075

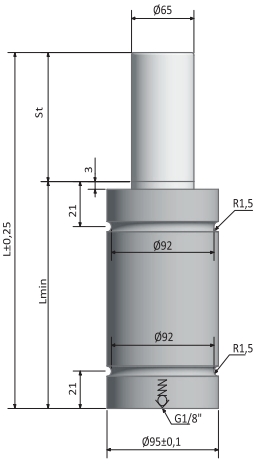

DKB 075

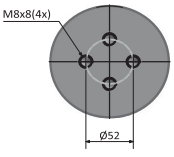

TA 075 - TD 075
TE 075 - TT 075


K 075 - KB 075
KC 075 - KF 075

MO07500 MO Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MO07500-010A	**10**	90	80	1550 Kg	2250 Kg	3,40
MO07500-016A	**16**	116	100			3,78
MO07500-025A	**25**	145	120			4,18
MO07500-032A	**32**	182	150			4,71
MO07500-040A	**40**	210	170			5,09
MO07500-050A	**50**	255	205			5,74
MO07500-065A	**65**	279	214			6,01



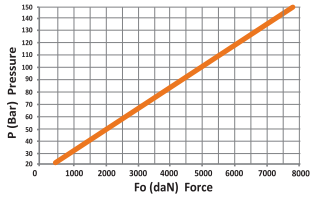


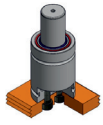
OTOMOTİV STANDARTLARI

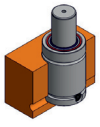
B2 4006 (BMW)
E24.54.185.G(PSA)

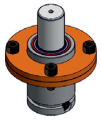
Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**
Piston ve Mildeki Sızdırmazlık Alanı : **50,27 cm²** Maksimum Hız : **1,8 m/s**

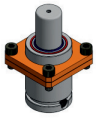





Bottom Mount


Drop - in

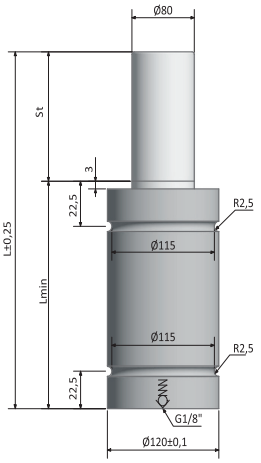

D 120

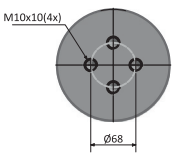

DK 120


TA 095 - TD 095
TE 095 - TT 095

MO12000 MO Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MO12000-010A	**10**	100	90	1550 Kg	2250 Kg	6,20
MO12000-016A	**16**	126	110			6,83
MO12000-025A	**25**	155	130			7,49
MO12000-032A	**32**	187	155			8,26
MO12000-040A	**40**	220	180			9,05
MO12000-050A	**50**	260	210			10,00
MO12000-065A	**65**	320	255			11,43





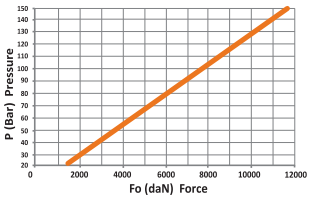
OTOMOTİV STANDARTLARI

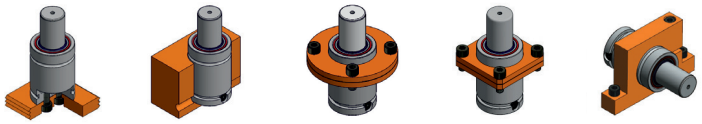
B2 4006 (BMW)

Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**

Piston ve Mildeki Sızdırmazlık Alanı : **78,54 cm²** Maksimum Hız : **1,8 m/s**



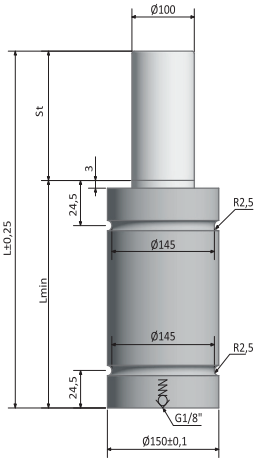


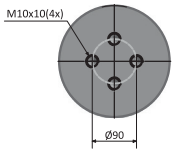


Bottom Mount | Drop - in | D 120 | DK 120 | TA 120 TD 120

MO18500 MO Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MO18500-010A	**10**	110	100	1550 Kg	2250 Kg	10,82
MO18500-016A	**16**	136	120			11,83
MO18500-025A	**25**	165	140			12,92
MO18500-032A	**32**	197	165			14,16
MO18500-040A	**40**	235	195			15,66
MO18500-050A	**50**	270	220			16,99
MO18500-065A	**65**	323	258			19,01

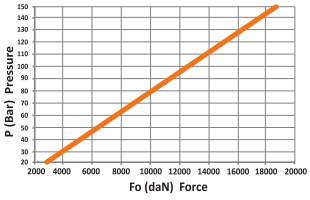


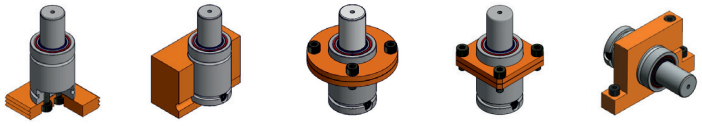


Çalışma Sıcaklığı: **0-80 °C** Maksimum Dolum Basıncı : **150 bar**

Piston ve Mildeki Sızdırmazlık Alanı : **122,72 cm²** Maksimum Hız : **1,8 m/s**



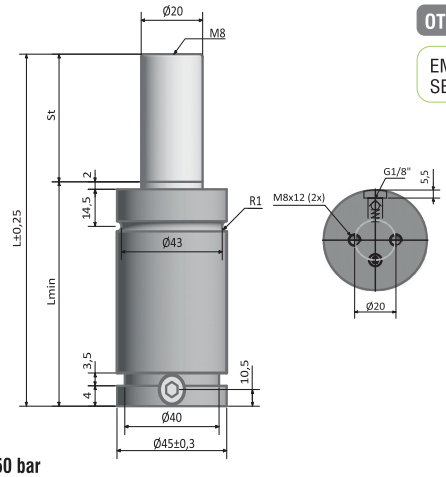




Bottom Mount | Drop - in | D 150 | DK 150 | TA 150 TD 150

MH00500 MH Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MH00500-006A	**06**	62	56	1550 Kg	2250 Kg	0,62
MH00500-013A	**13**	76	63			0,66
MH00500-019A	**19**	88	69			0,70
MH00500-025A	**25**	100	75			0,75
MH00500-038A	**38**	126	88			0,84
MH00500-050A	**50**	150	100			0,92
MH00500-063A	**63**	176	113			1,02
MH00500-080A	**80**	210	130			1,14
MH00500-100A	**100**	250	150			1,29
MH00500-125A	**125**	300	175			1,47

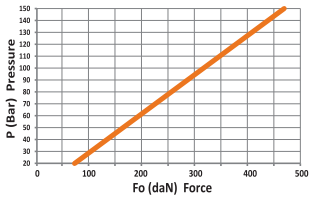


OTOMOTİV STANDARTLARI

EM24.54.700(Renault)
SES-K 5404e (Suzuki)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı: **3,14 cm²**

Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**

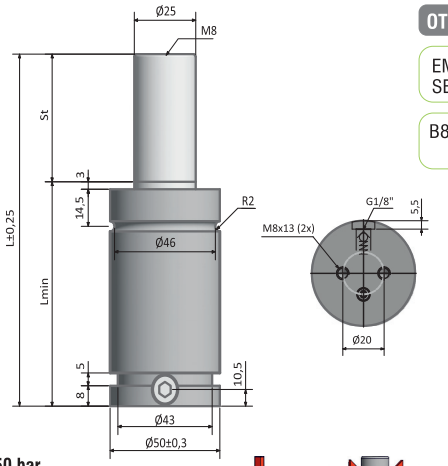




Bottom Mount | Drop - in | D 045 | DK 045 | TA 045 - TD 045 TT 050 | CB 045 C 045 | K 045 - KB 045 KC 045 - KF 045

MH00750 MH Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MH00750-006A	**06**	62	56	1550 Kg	2250 Kg	0,72
MH00750-013A	**13**	76	63			0,77
MH00750-019A	**19**	88	69			0,82
MH00750-025A	**25**	100	75			0,87
MH00750-038A	**38**	126	88			0,96
MH00750-050A	**50**	150	100			1,05
MH00750-063A	**63**	176	113			1,15
MH00750-080A	**80**	210	130			1,28
MH00750-100A	**100**	250	150			1,43
MH00750-125A	**125**	300	175			1,63



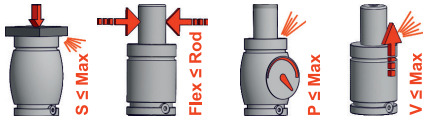
OTOMOTİV STANDARTLARI

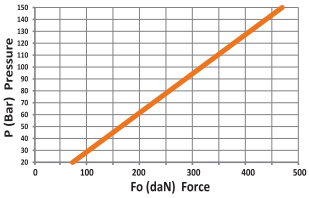
EM24.54.700(Renault)
SES-K 5404e (Suzuki)

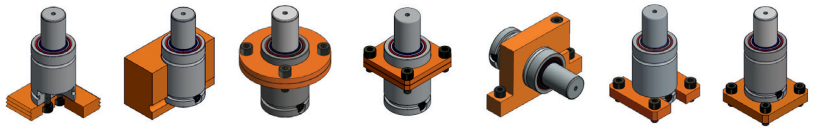
B8 3180 220 000 003 (MB)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı: **4,91 cm²**

Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



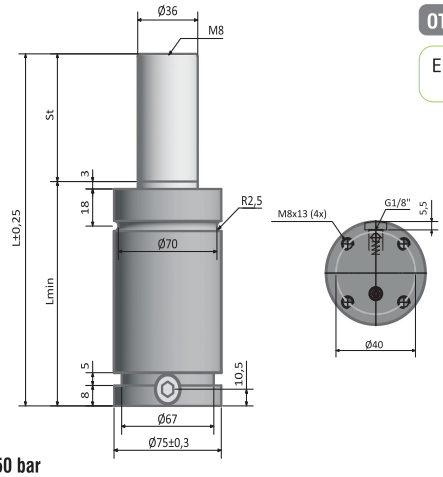




Bottom Mount | Drop - in | D 050 | DK 050 | TA 050 - TD 050 TE 050 - TT 050 | CB 050 C 050 | K 050 - KB 050 KC 050 - KF 050

MH01500 MH Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MH01500-025A	**25**	110	85	1550 Kg	2250 Kg	2,39
MH01500-038A	**38**	136	98			2,66
MH01500-050A	**50**	160	110			2,90
MH01500-063A	**63**	186	123			3,17
MH01500-080A	**80**	220	140			3,52
MH01500-100A	**100**	260	160			3,93



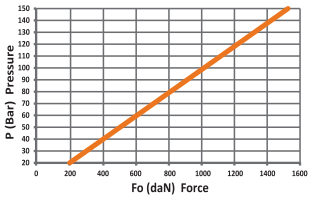
OTOMOTİV STANDARTLARI

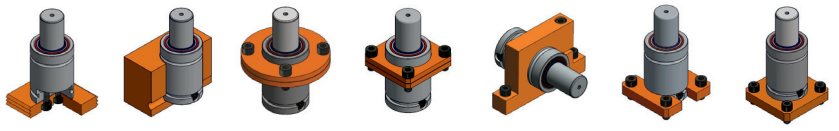
EM24.54.700(Renault)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı: **10,18 cm²**

Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**



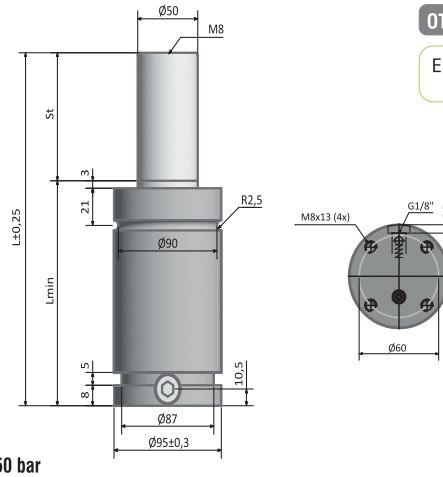




Bottom Mount | Drop - in | D 075 | DK 075 | TA 075 - TD 075 TE 075 - TT 075 | CB 075 C 075 | K 075 - KB 075 KC 075

MH03000 MH Serisi Gazlı Yaylar

Sipariş Kodu	Strok mm	L mm	L min mm	KUVVET İlk	KUVVET Son	Kg
MH03000-025A	**25**	120	95	1550 Kg	2250 Kg	4,47
MH03000-038A	**38**	146	108			4,93
MH03000-050A	**50**	170	120			5,36
MH03000-063A	**63**	196	133			5,82
MH03000-080A	**80**	230	150			6,42
MH03000-100A	**100**	270	170			7,13



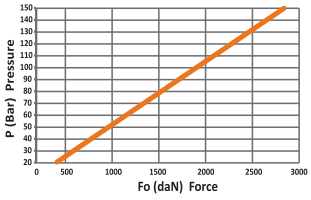
OTOMOTİV STANDARTLARI

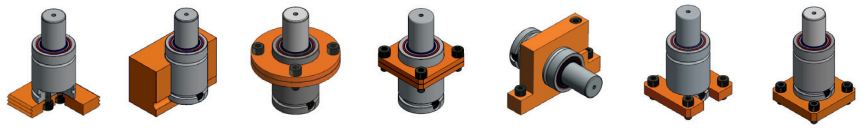
EM24.54.700(Renault)

Çalışma Sıcaklığı: **0-80 °C**
Piston ve Mildeki Sızdırmazlık Alanı: **19,63cm²**

Maksimum Dolum Basıncı : **150 bar**
Maksimum Hız : **1,8 m/s**





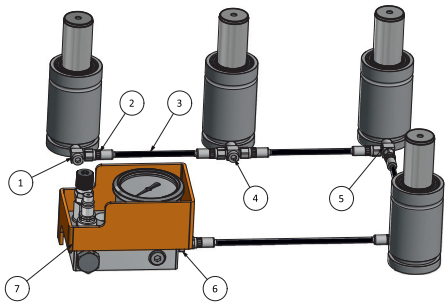


Bottom Mount | Drop - in | D 095 | DK 095 | TA 095 - TD 095 TE 095 - TT 095 | CB 095 C 095 | K 095 - KB 095 KC 095

SERİ BAĞLAMA / UYGULAMALI ÖRNEKLER

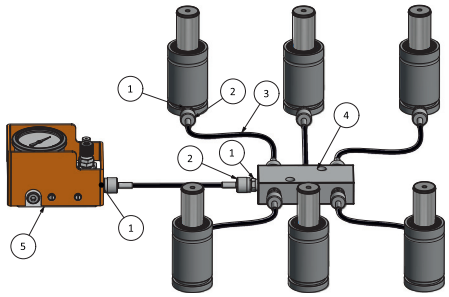
ÖRNEK 1

Örnek 1	
No	Ürün
1	M8.DR6
2	M8.5D
3	HR 5
4	M8.TE6
5	M8.YT6
6	M8.RK18
7	KPAL



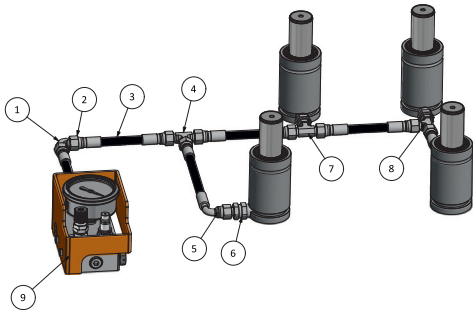
ÖRNEK 2

Örnek 2	
No	Ürün
1	S12.RK18
2	G18.5D
3	HR 5
4	DBD 07 G18
5	KPAL

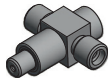
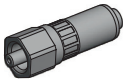


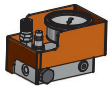
ÖRNEK 3

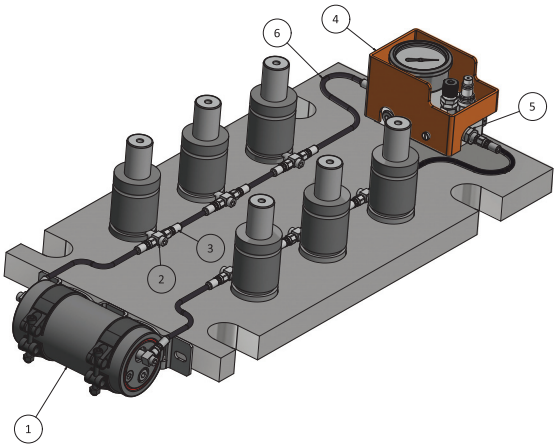
Örnek 3	
No	Ürün
1	UN7.EKL
2	UN7.10D
3	HR 10
4	UN7.EKT
5	UN7.10L
6	UN7.RK18
7	UN7.TE18
8	UN7.YT18
9	KPAL



MKPAL

1) MGT 075	2) MM8.TE6	3) MM8.5D
		

4) MKPAL	5) MM8.RK18	6) MHR 5
		



DENGELEME TANKI

Birbirinden bağımsız çalışan gazlı yaylar bir genleşme tankına bağlanabilirler. Bu sayede sistemde oluşan basınç değeri normalde elde edilen basınç değerine göre azalma gösterecektir. Gerekli olan genleşme tankının hacmi aşağıdaki formülde kolayca bulunabilir.

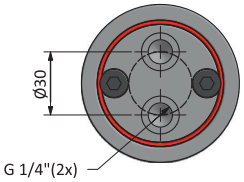
$Vp=n\{[S \times R / (R-1)]-VO\}$
Vp= Genleşme hacmi [cm^3]
n=Kullanılacak gazlı yay sayısı
S=Mil kesit alanı [cm^2]
x= Çalışma stroğu
R=Sistemde istenen son basınç değeri ile başlangıç basıncı arasındaki orandır. (en fazla 1,4 olmalıdır.)
V_0= Gazlı yayın başlangıç hacmi (cm^3)

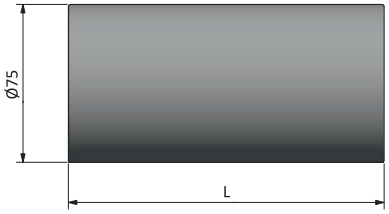
Örneğin;
Gereken kuvvet 11500 daN ise R=1,25 için 5 adet E.02400-063 gerekli olacaktır. (E.02400-063 için başlangıç kuvveti F_0=2385 daN. Böylece 11500/2385 ile 5 adet gerekli olduğu görülmektedir.

Değerler formülde yerine yazıldığında ise genleşme hacminin yaklaşık olarak 1100cm^3 olduğu blunmaktadır.
Hacmi 100 cm^3 den büyük olan en küçük genleşme tankı seçilerek sistem içerisinde oluşan sıkıştırma oranı düşürülebilir. Kullanılan enerji sarfiyatı azaltılmış olur.

MGT 075

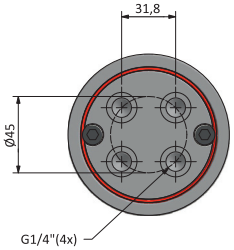
Sipariş Kodu	Hacim (Lt)	L mm
MGT 075 025	0.25	170
MGT 075 050	0.50	250
MGT 075 100	1	410

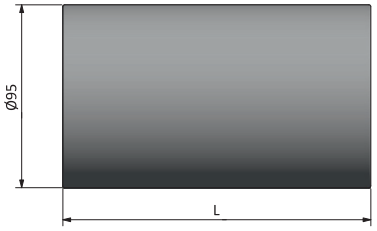




MGT 095

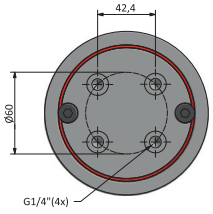
Sipariş Kodu	Hacim (Lt)	L mm
MGT 095 100	1	300
MGT 095 200	2	500
MGT 095 300	3	700
MGT 095 400	4	900

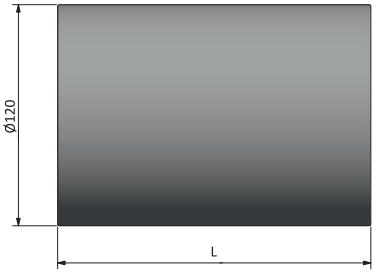




MGT 120

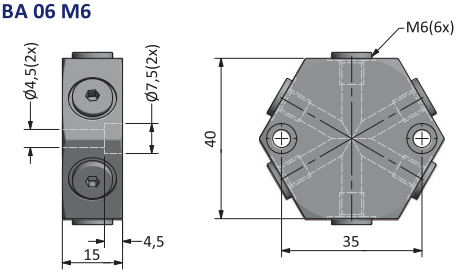
Sipariş Kodu	Hacim (Lt)	L mm
MGT 120 200	2	360
MGT 120 400	4	615
MGT 120 800	8	1125



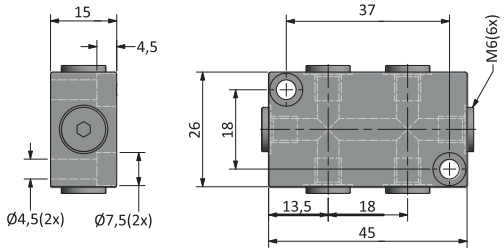


DAĞITIM BLOKLARI

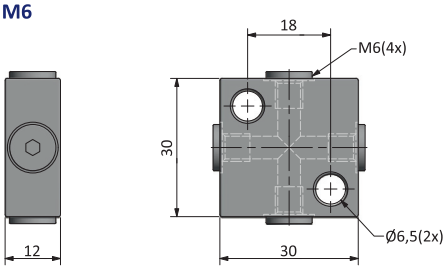
DBA 06 M6



DBD 06 M6



DBK 04 M6



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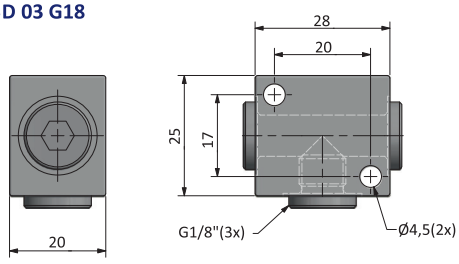

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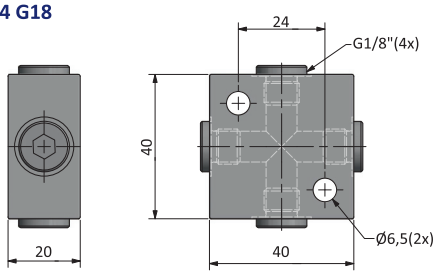

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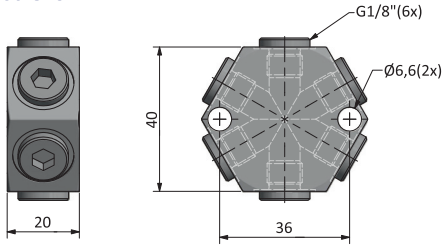
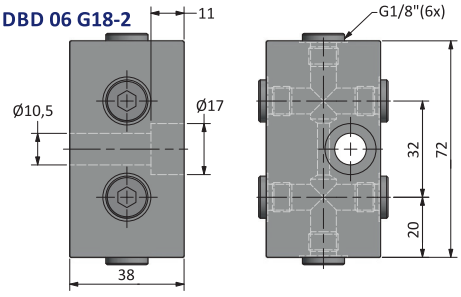


DBD 06 G18-2



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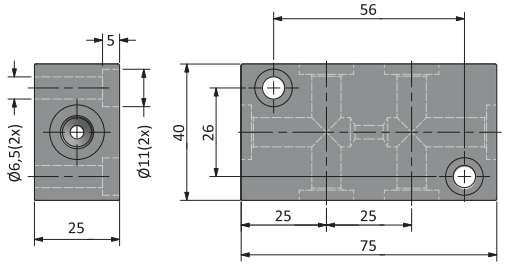
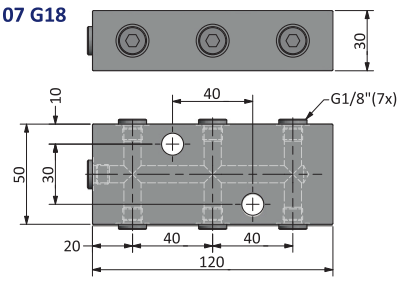
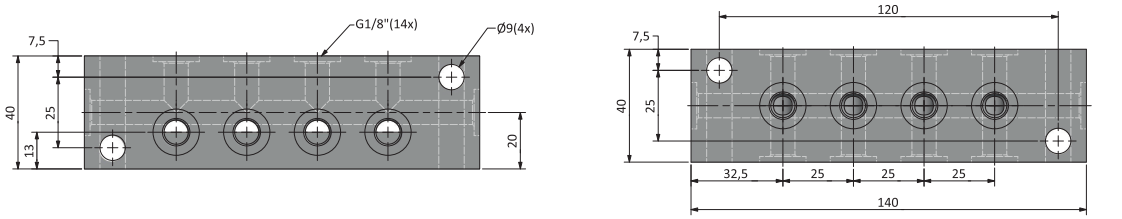


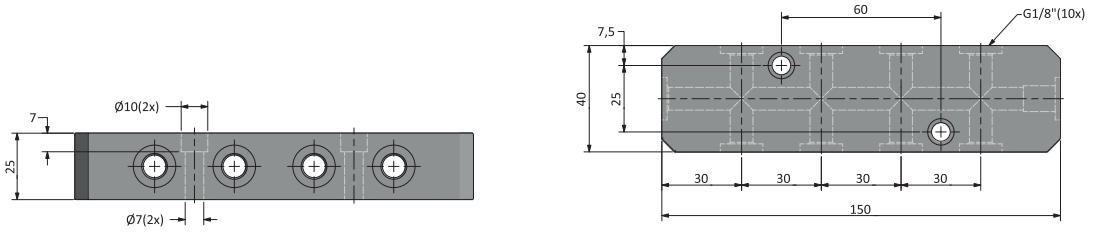
DBD 07 G18



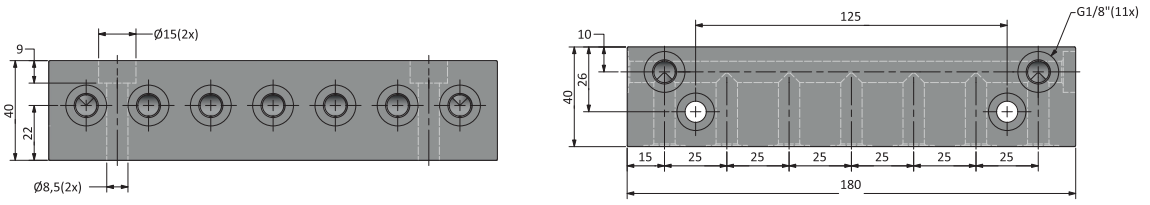
MDBD 14 G18-1



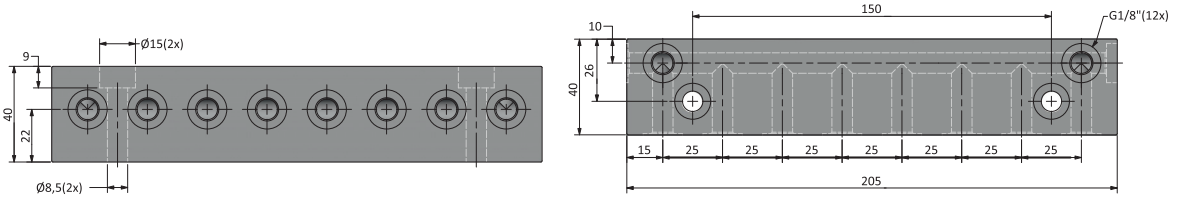
MDBD 10 G18



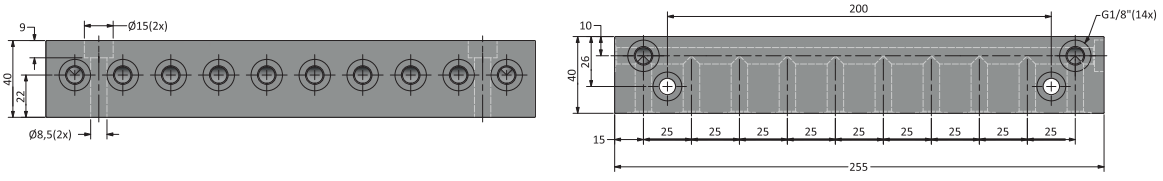
MDBD 11 G18



MDBD 12 G18

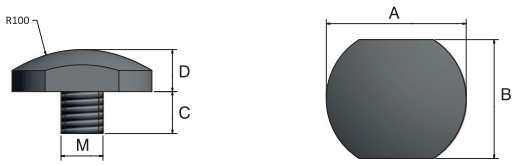


MDBD 14 G18-2



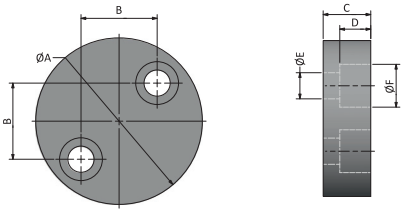
MDPR Gazlı Yay Baskı Pedi

Sipariş Kodu	A	B	C	D	M
MDPR-01	20	17	6	6	**M6**
MDPR-02	22,5	19	6	7	**M8**



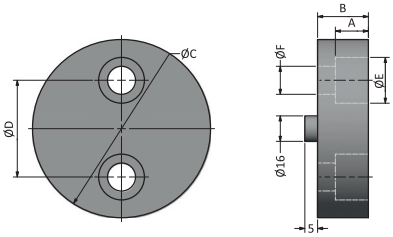
MDPC Gazlı Yay Baskı Plakası / Yuvarlak

Sipariş Kodu	ØA mm	B mm	C mm	D mm	ØE mm	ØF mm	Ød
MDPC - 050	50	21	15	10	9	15	d≤15
MDPC - 070	70	32	20	13	11	18	d≤25
MDPC - 094	94	48	20	13	11	18	d≤50



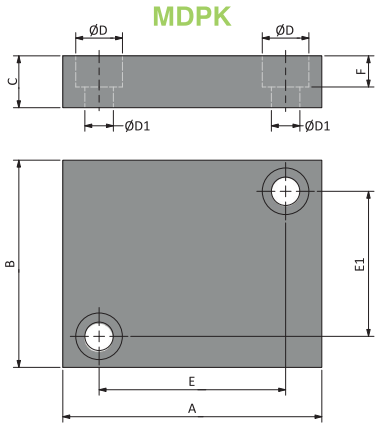
MDPC Gazlı Yay Baskı Plakası / Yuvarlak

Sipariş Kodu	ØA mm	B mm	C mm	D mm	ØE mm	ØF mm	Ød
MDPC - 098	12	20	98	73	20	13,5	d≤50
MDPC - 113	12	20	113	88	20	13,5	d≤65
MDPC - 128	12	20	128	103	20	13,5	d≤80
MDPC - 143	12	20	143	118	20	13,5	d≤95



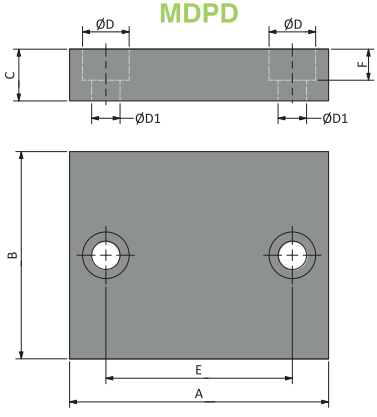
MDPK Gazlı Yay Baskı Plakası / Kare

Sipariş Kodu	A mm	B mm	C mm	ØD mm	ØD1 mm	ØE mm	ØE1 mm	ØF mm	Ød
MDPK - 04011	40	40	15	15	9	21	21	10	d≤20
MDPK - 05613	56	56	20	18	11	32	32	13	d≤36
MDPK - 07117	71	71	20	18	11	48	48	13	d≤60
MDPK - 09020	90	90	20	18	11	67	67	13	d≤80
MDPK - 10022	100	100	20	18	11	74	74	11	d≤90
MDPK - 14026	140	140	20	18	11	110	110	13	d≤130



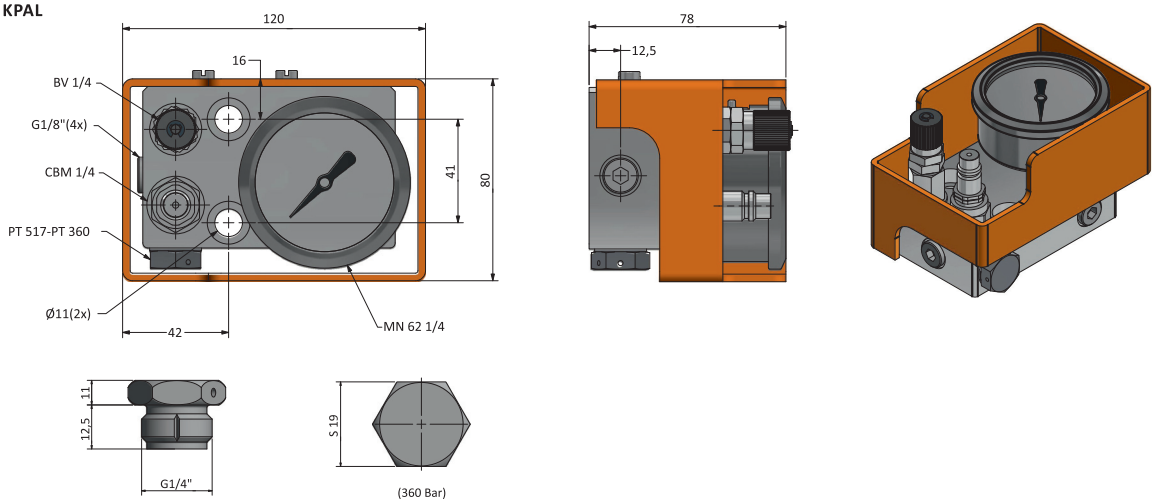
MDPD Gazlı Yay Baskı Plakası / Kare

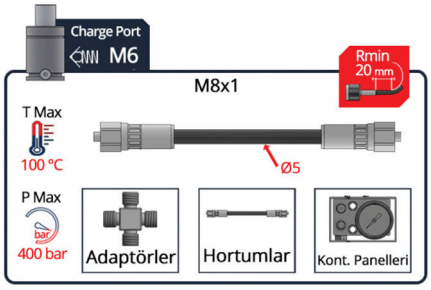
Sipariş Kodu	A mm	B mm	C mm	ØD mm	ØD1 mm	ØE mm	ØE1 mm	ØF mm	Ød
MDPD -05012	50	25	12	11	7	32	8	8	d≤15
MDPD -05514	55	30	12	11	7	40	14	8	d≤20
MDPD -07017	70	35	15	15	9	48	14	10	d≤30
MDPD -07518	75	50	15	15	9	56	30	10	d≤36
MDPD -08520	85	60	15	15	9	66	40	10	d≤55
MDPD -10021	100	80	20	18	11	72	56	12	d≤70
MDPD -11022	110	100	20	18	11	85	75	12	d ≤100

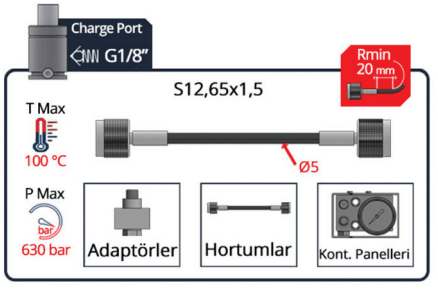


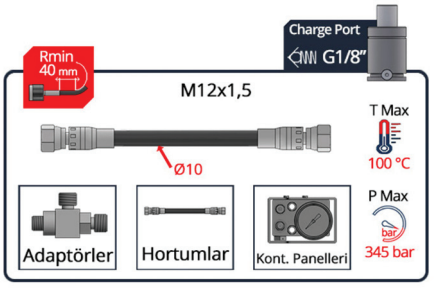
KONTROL PANELİ ve SERİ BAĞLAMA ELEMANLARI

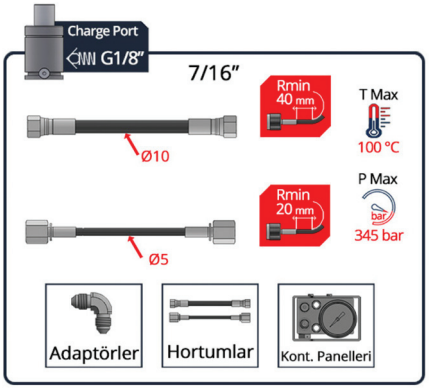
KPAL

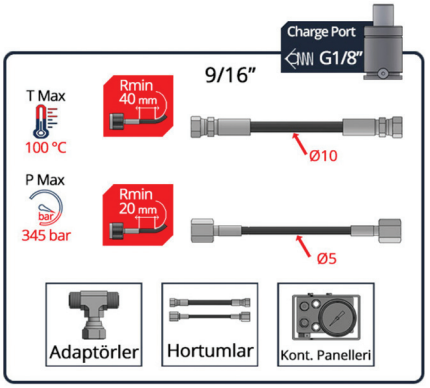






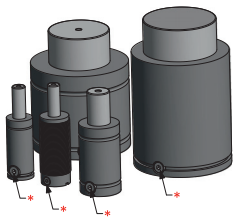








M6
ME 300- ME 500 - ME 750 - ME 1000
ME 1200 - ME 1500 - ME 2400
MP 300 - MP 500 - MP 500 TBM
MY 150 - MY 250 - MY 250 TBM



G1/8"
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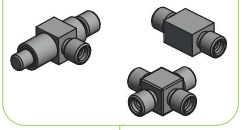
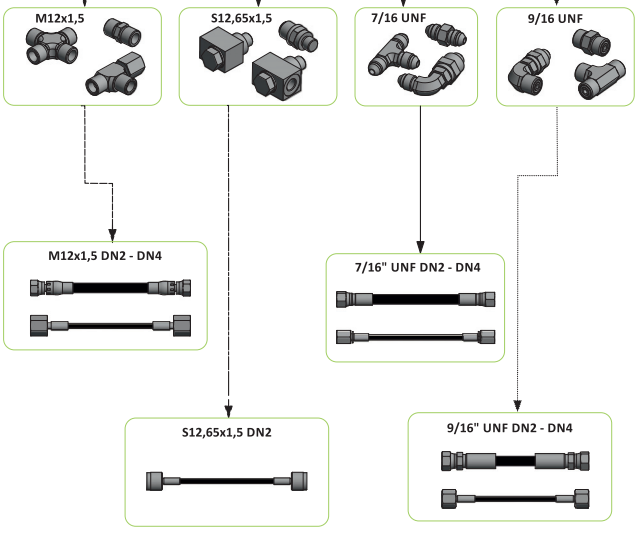
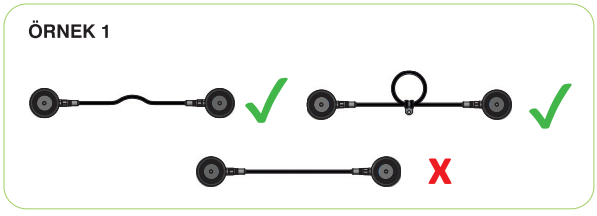
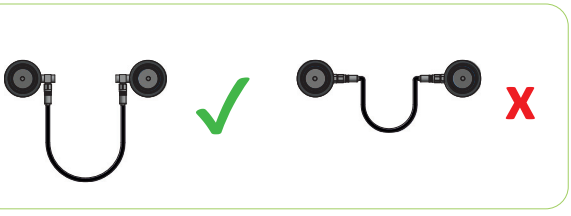
MEG750-MEG1000-MEG1500-MEG2400 MEG4200-MEG6600
MEK750-MEK1000-MEK1200-MEK1500 MEK2400
MET300-MET500-MET750-MET1000-MET1200 MET1500-MET2400-MET4200-MET6600-MET9500
MH500-MH750-MH-1500-MH3000
MY500-MY750-MY1500-MY3000-MY5000 MY7500-MY10000
MP750-MP1000-MP1500-MP2400-MP4200 MP6600-MP9500-MP18500

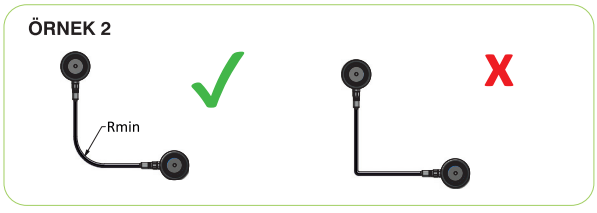


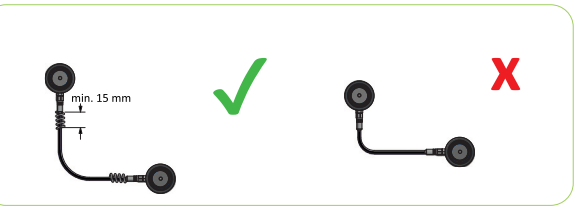


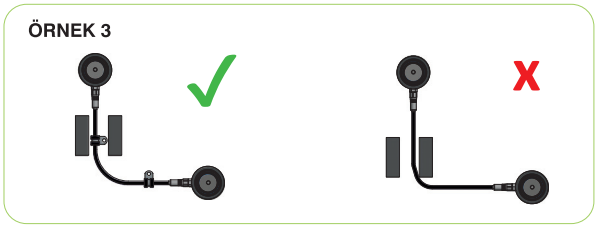






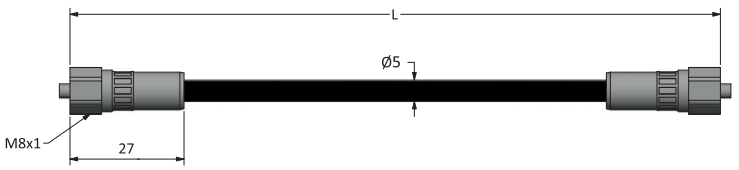




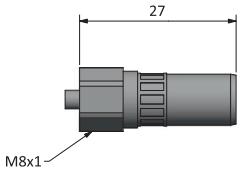


M8 HORTUM SİSTEMLERİ ve BAĞLANTI ADAPTÖRLERİ

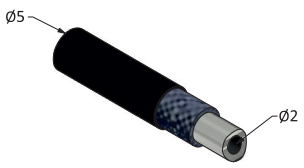
M8.5DD



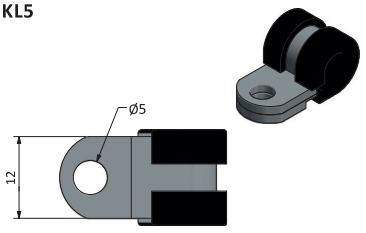
M8.5D



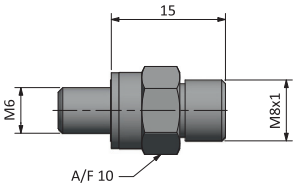
HR 5



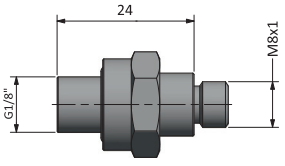
KL5



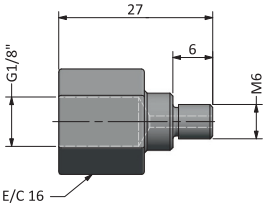
M8.RK6



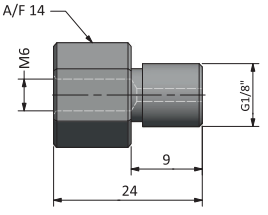
M8.RK18



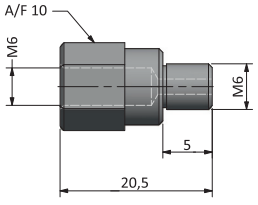
G18.RD6



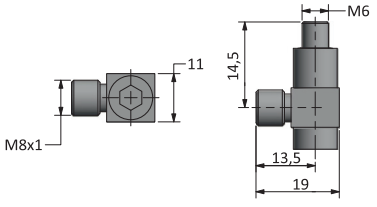
G18.RK6



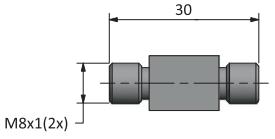
M6.UZ6



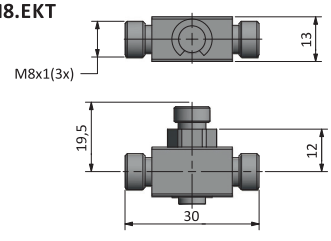
M8.DR6



M8.EKI



M8.EKT



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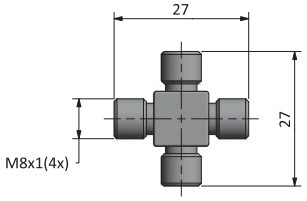
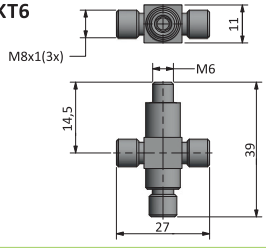
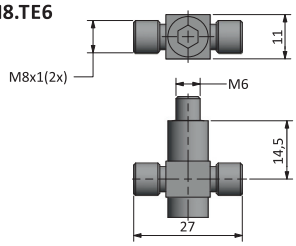


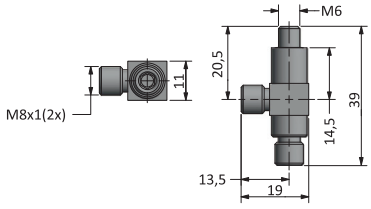
M8.KT6



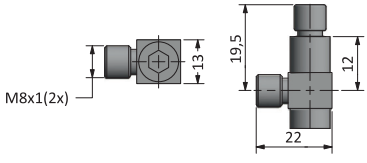
M8.TE6



M8.YT6

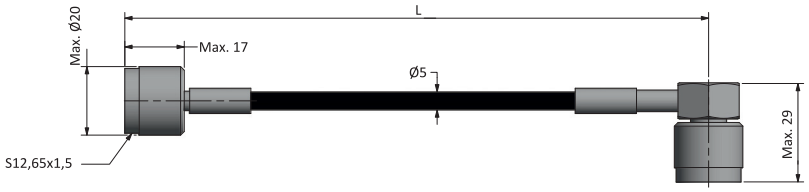


M8.EKL

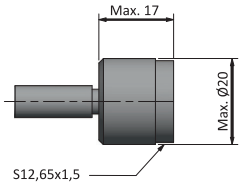


M8 HORTUM SİSTEMLERİ ve BAĞLANTI ADAPTÖRLERİ

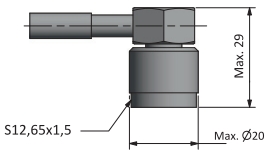
G18.5DL



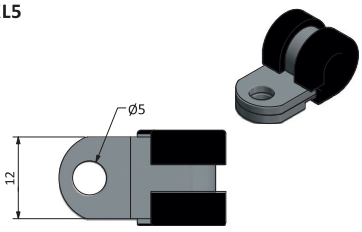
G18.5D



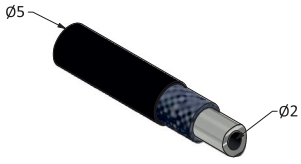
G18.5L



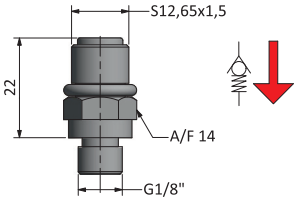
KL5



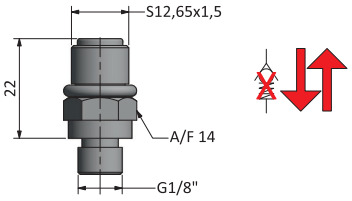
HR 5



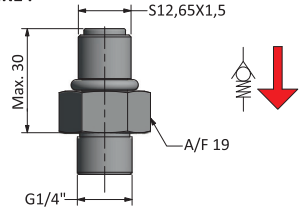
S12.RK18



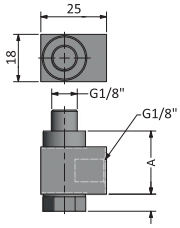
S12.RK18.0



S12.RK14

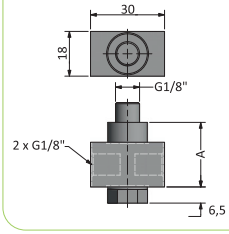


G18 01...



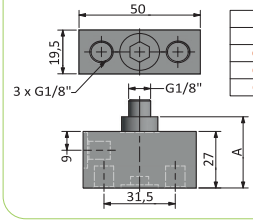
G 18 01 A	
ÜRÜN	A
G18 01 24	24
G18 01 38	38
G18 01 48	48

G18 02...



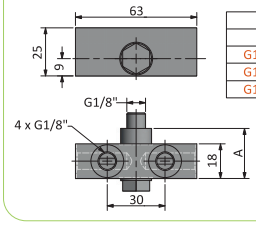
G18 02 A	
ÜRÜN	A
G18 02 26	26
G18 02 40	40
G18 02 50	50

G18 03...



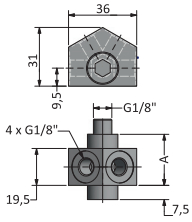
G18 03 A	
ÜRÜN	A
G18 03 34	34
G18 03 48	48
G18 03 55	55

G18 04...



G18 04 A	
ÜRÜN	A
G18 04 26	26
G18 04 40	40
G18 04 50	50

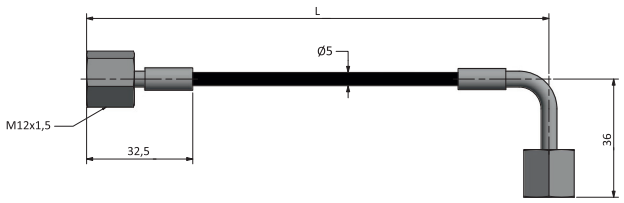
G18 05...



G18 05 A	
ÜRÜN	A
G18 05 27	27
G18 05 41	41
G18 05 48	48

M12 HORTUM SİSTEMLERİ ve BAĞLANTI ADAPTÖRLERİ

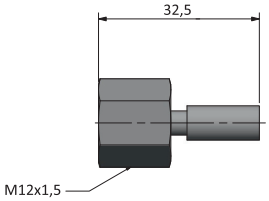
M12.5DL



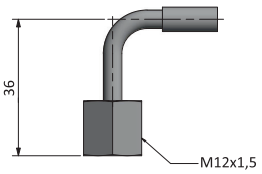
HR 5



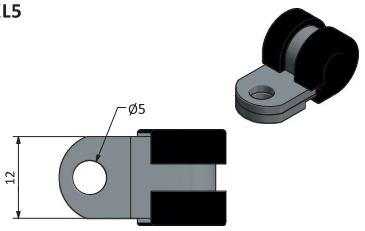
M12.5D



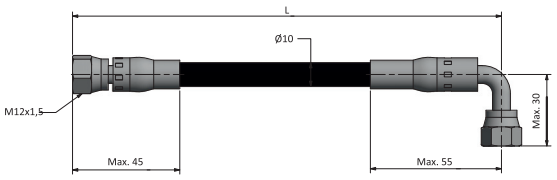
M12.5L



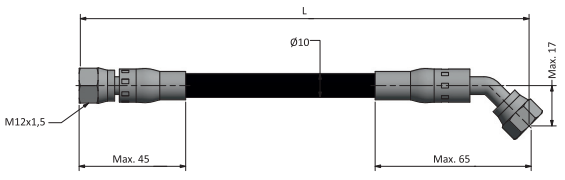
KL5



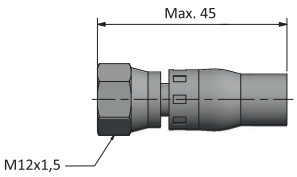
M12.10DL



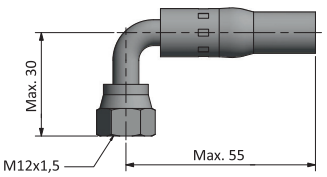
M12.10DC



M12.10D



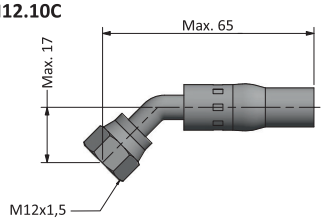
M12.10L



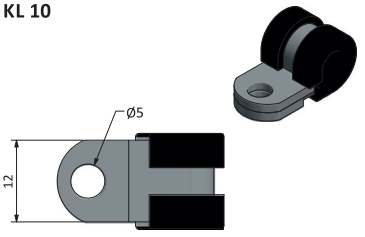
HR 10



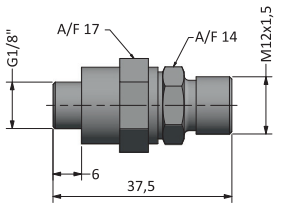
M12.10C



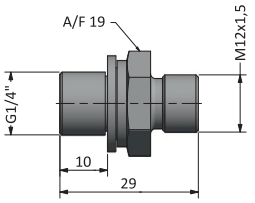
KL 10



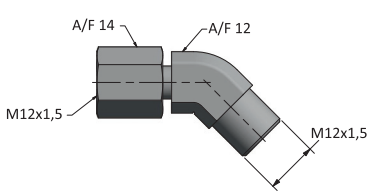
M12.RK18



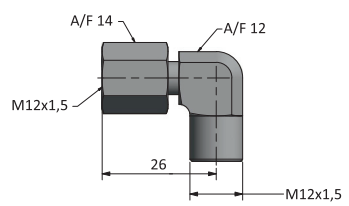
M12.RK14



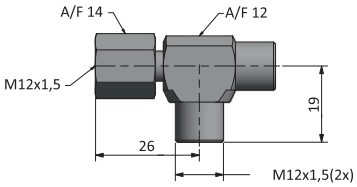
M12.AD12



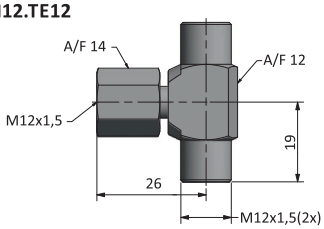
M12.DR12



M12.YT12



M12.TE12



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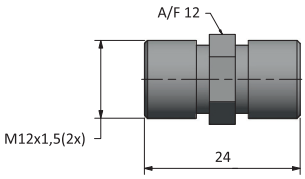

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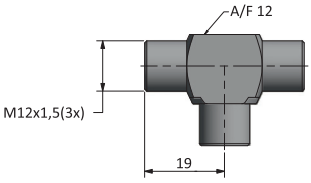

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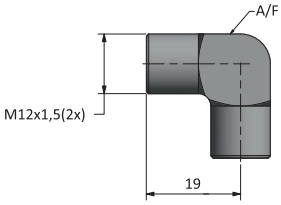

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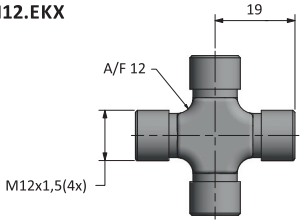

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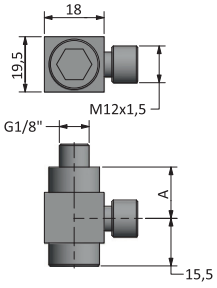

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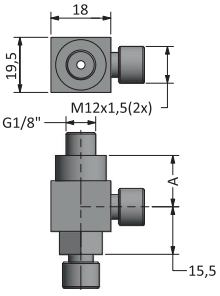
M12 01 31	31
M12 01 38	38

M12 02 A



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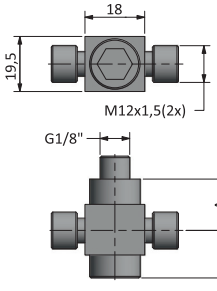

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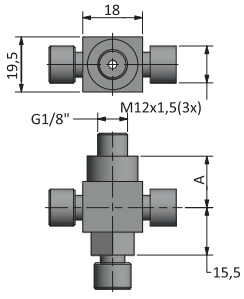
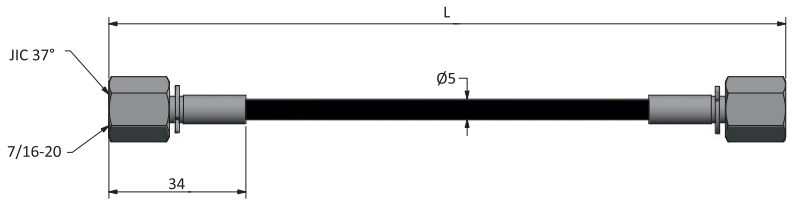
M12 04 A



M12 04 A	
ÜRÜN	A
M12 04 43	43
M12 04 57	57
M12 04 64	64

M8 HORTUM SİSTEMLERİ ve BAĞLANTI ADAPTÖRLERİ

UN7.5DD



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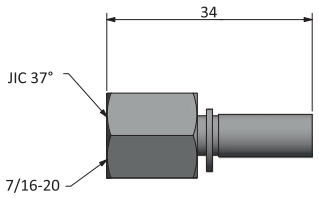
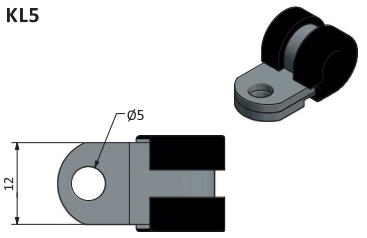


HR 5



KL5



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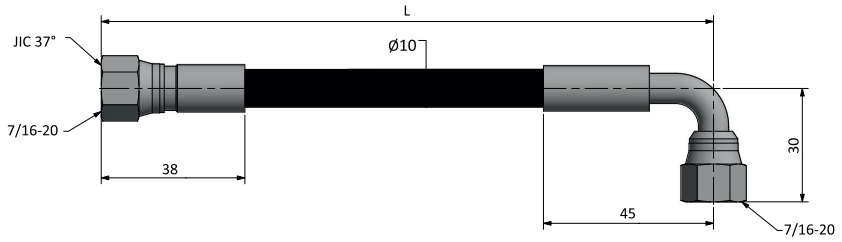

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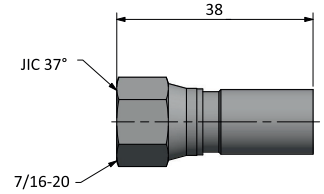

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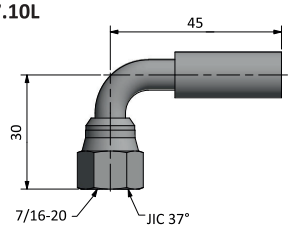

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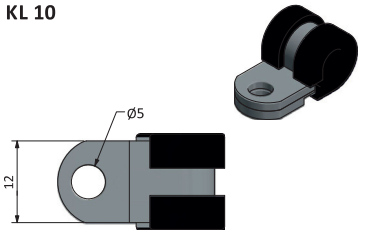

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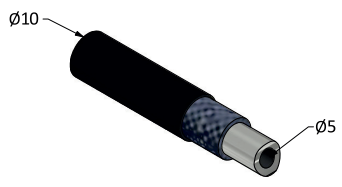
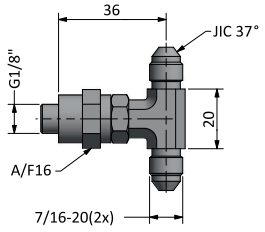


UN7.TE18



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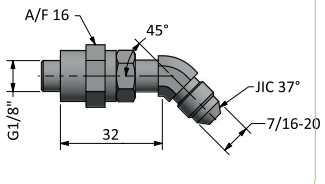

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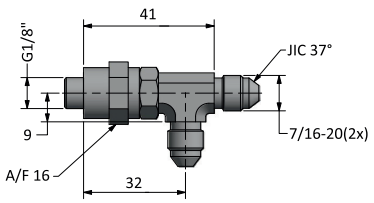

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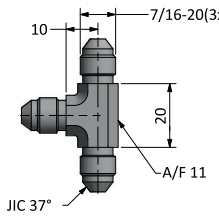

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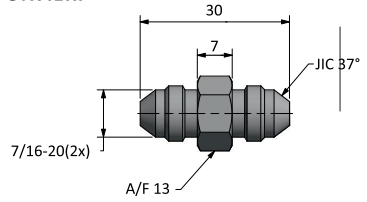

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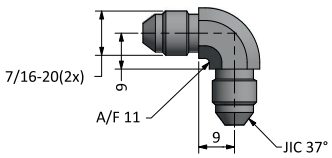

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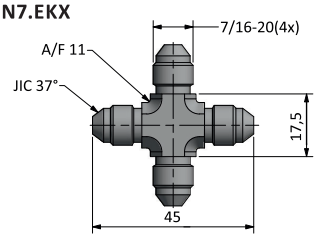

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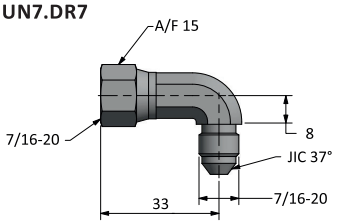

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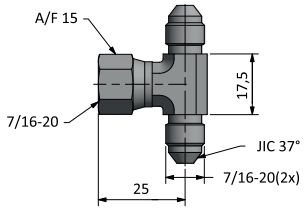

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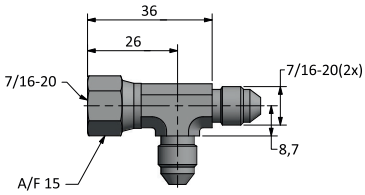

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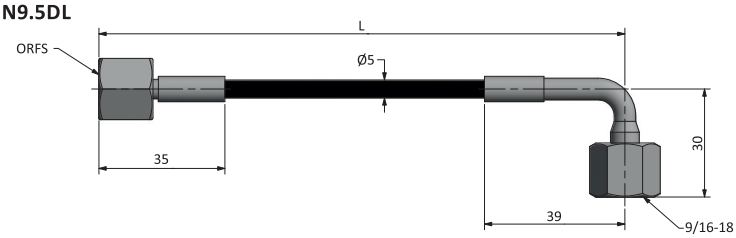

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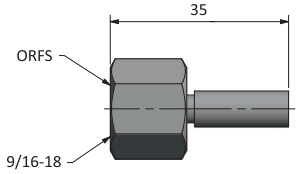

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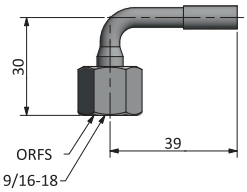

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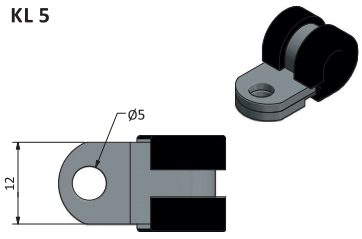
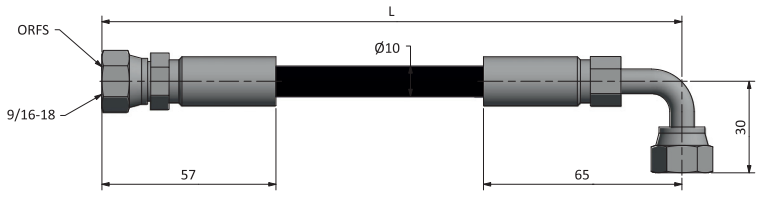


HR 5



UN9.10DL



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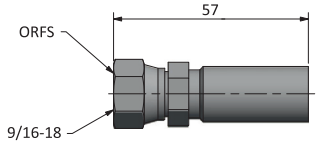

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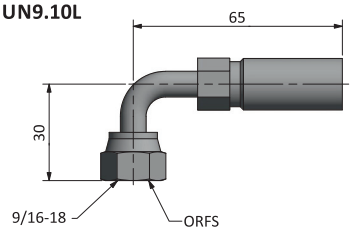

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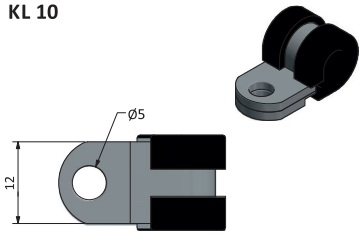

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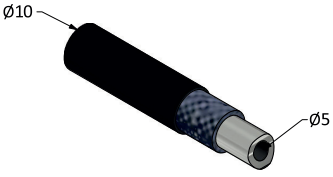

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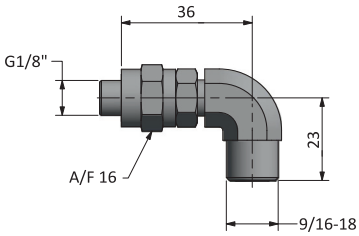

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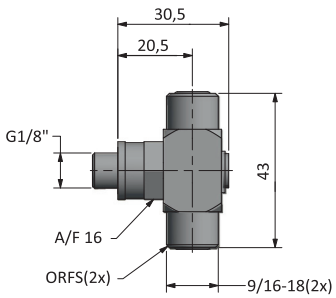

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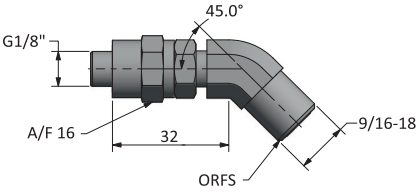

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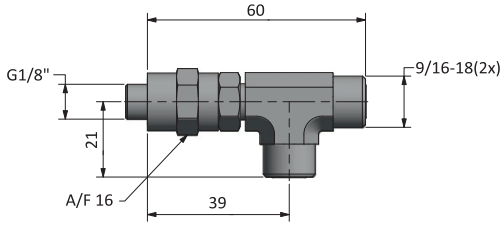

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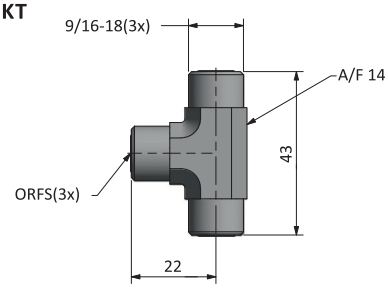

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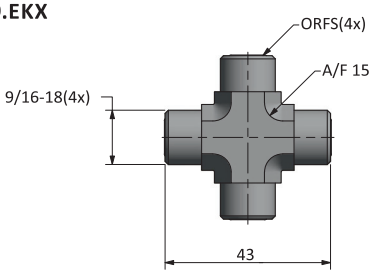

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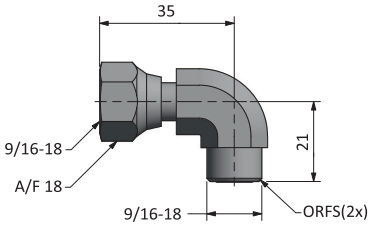

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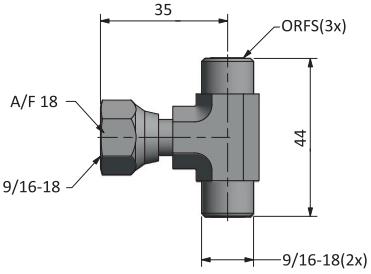

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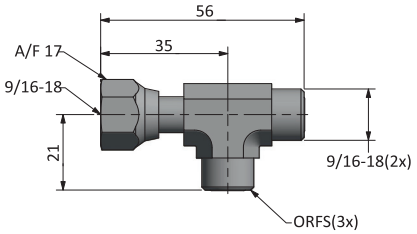

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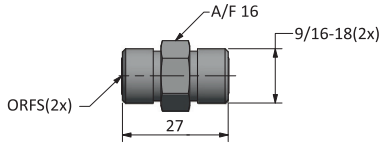

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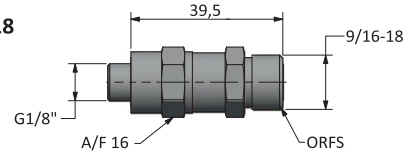
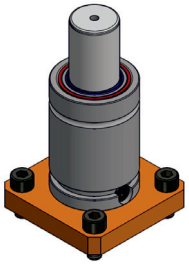
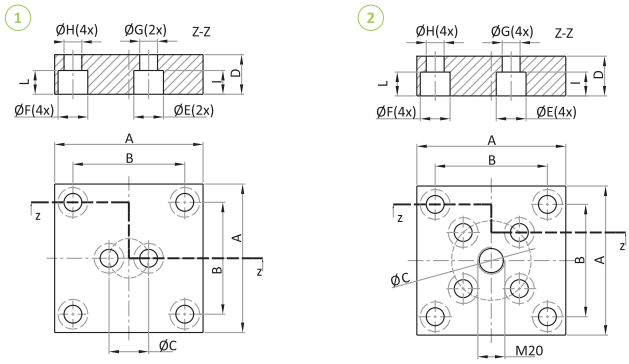


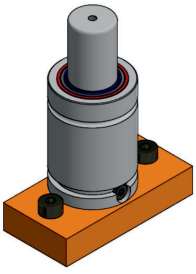
MK MK Serisi Flanşlar

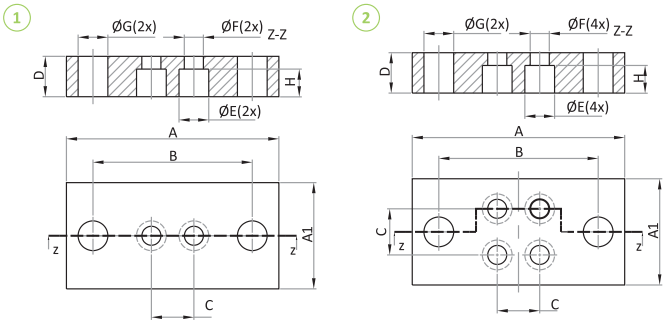




Sipariş Kodu	Reference to Standarts	A	B	ØC	D	ØE	ØF	ØG	ØH	I	L
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
MK 045	a-b-j-t-u	70	50	20	20	15	15	9	9	14	12
MK 050	a-b-j-t-u	75	56,5	20	20	15	15	9	9	14	12
MK 063		100	73,5	20	20	15	18	9	11	12	12
MK 075	a-b-j-t-u	100	73,5	40	20	15	18	9	11	14	12
MK 095	a-b-j-t-u	120	92	60	20	15	20	9	13,5	14	13
MK 120	a-b-j-t-u	140	109,5	80	20	18	20	11	13,5	15	13
MK 150	a-b-j-u	190	138	100	25	18	26	11	17,5	15	17
MK 190	a-b-j-u	210	210	120	25	20	26	13,5	17,5	13	17

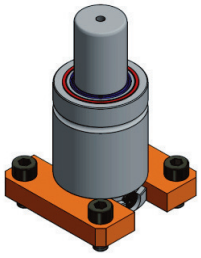
MKH - MKHA MKH-MKHA Serisi Flanşlar

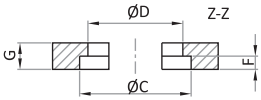


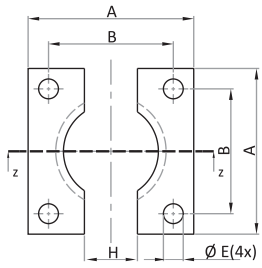


Sipariş Kodu	Reference to Standarts	A	A1	B	C	D	ØE	ØF	ØG	H
		mm	mm	mm	mm	mm	mm	mm	mm	mm
MKH 045	u-ϕ	90	45	70	20	16	14	9	9	10
MKH 050	u-ϕ	100	50	75	31,8	19	18	11	14	13
MKHA 050	u-ϕ	100	50	75	20	19	14	9	14	13
MKH 075	u-ϕ	130	80	105	38,1	19	20	14	14	13
MKHA 075	u-ϕ	130	80	105	28,3	19	14	9	14	13
MKH 095	u-ϕ	150	100	125	53,9	19	20	14	14	13
MKHA 095	u-ϕ	150	100	125	42,4	19	14	9	14	13
MKH 120	u-ϕ	170	120	125	57,1	19	20	14	14	13

MC MC Serisi Flanşlar

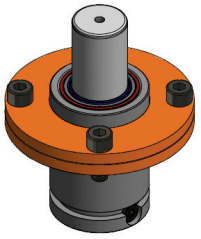


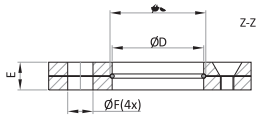


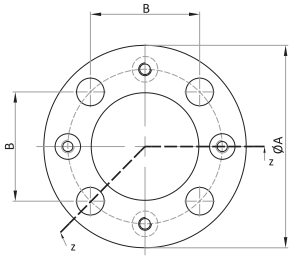


Sipariş Kodu	Reference to Standarts	A	B	ØC	ØD	ØE	F	G	H
		mm	mm	mm	mm	mm	mm	mm	mm
MC 032	a-c-d-g-o	50	35	32,5	28,5	6,6	4	7	5
MC 038	a-c-d-g-o	55	40	38,5	34,5	7	4	7	5
MC 045	a-c-d-g-o-v-β	70	50	45,5	41,5	9	4	7	20
MC 050	a-c-d-g-o-v-β	75	56,5	50,5	44,5	9	8	12	24
MC 063	-	85	63,5	63,5	57,5	11	8	12	24
MC 075	a-c-d-g-o-v-β	100	73,5	75,5	68,5	11	8	12	24
MC 095	a-c-d-g-o-v-β	120	92	95,5	88,5	13,5	8	12	24
MC 120	a-c-d-g-o-v-β	140	109,5	120,5	113,5	13,5	8	12	24
MC 150	a-c-d-g-o-v-β	190	138	150,5	143,5	17,5	8	12	24
MC 195	a-c-d-g-o-v-β	210	170	195,5	188	17,5	8	13	24

MD MD Serisi Flanşlar

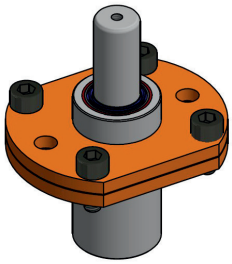


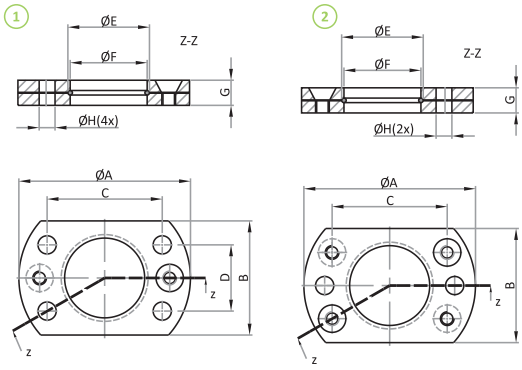




Sipariş Kodu	Reference to Standarts	ØA	B	ØC	ØD	E	ØF
		mm	mm	mm	mm	mm	mm
MD 032	a-b-c-i-p-x	60	35	34	32,5	9	7
MD 038	a-b-c-i-p-x	68	40	40	38,5	9	7
MD 045	a-b-c-i-p-x	86	50	47	45,5	13	9
MD 050	a-b-c-i-p-x	95	56,5	54	50,5	13	9
MD 063	-	122	73,5	67	63,5	16	11
MD 075	a-b-c-i-p-x	122	73,5	80	75,5	16	11
MD 095	a-b-c-i-p-x	150	92	100	95,5	18	13,5
MD 120	a-b-c-i-p-x	175	109,5	125	120,5	21	13,5
MD 150	a-b-c-i-p-x	220	138	155	150,5	27	17,5
MD 195	a-b-i-p-x	290	170	200	195,5	27	17,5

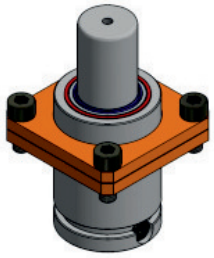
MD - MDF MD-MDF Serisi Flanşlar

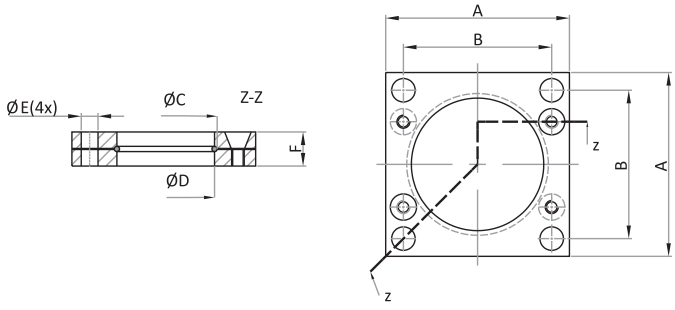




Sipariş Kodu	Reference to Standarts	ØA	B	C	D	ØE	ØF	G	H
		mm	mm	mm	mm	mm	mm	mm	mm
MD 019	a-e	44	25	30	12	21	19,5	9	6,6
MD 025	a-e	50	35	34	18	27	25,5	9	6,6
MDF 019	b-c-r-v-z	44	25	32	-	21	19,5	9	6,6
MDF 025	b-c-r-t-v-z	50	35	38	-	27	25,5	9	6,6

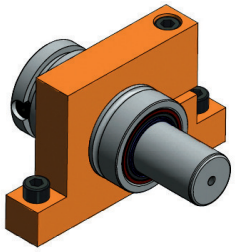
MDK-MDKA MDK-MDKA Serisi Flanşlar

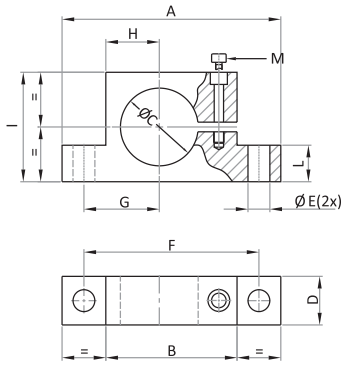




Sipariş Kodu	Reference to Standarts	A	B	ØC	ØD	ØE	F
		mm	mm	mm	mm	mm	mm
MDK 032	b-d-h-w	45	35	34	32,5	7	9
MDK 038	a-b-c-d-h-w	52	40	40	38,5	7	9
MDK 045	a-b-c-d-h-w	64	50	47	45,5	9	13
MDK 050	a-b-c-d-h-w	70	56,5	54	50,5	9	13
MDKA 063	w	90	73,5	67	63,45	11	16
MDK 063	b-d-v	80	64	67	63,45	11	16
MDK 075	a-b-c-d-h-w	90	73,5	80	75,5	11	16
MDK 095	a-b-c-d-h-w	110	92	100	95,5	13,5	18
MDK 120	a-b-c-d-h-w	130	109,5	125	120,5	13,5	21
MDK 150	a-b-c-d-h-w	162	138	155	150,5	17,5	27
MDK 195	a-b-d-h-w	210	170	200	195,5	17,5	27

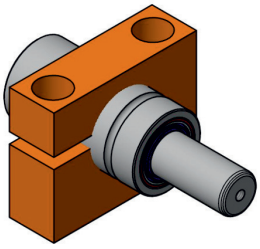
MTA MTA Serisi Flanşlar

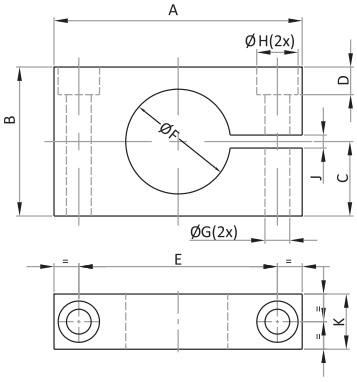




Sipariş Kodu	Reference to Standarts	A	B	ØC	D	ØE	M	F	G	H	I	L
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
MTA 032	a-b-c-m-t	90	54	32	20	9	M8	72	31	22	45	15
MTA 038	a-b-c-m-t	95	59	38	20	9	M8	77	34	25	55	15
MTA 045	a-b-c-m-t	100	64	45	20	9	M8	82	37	28	60	15
MTA 050	a-b-c-m-t	130	90	50	30	9	M8	110	50	40	80	20
MTA 075	a-b-c-m-t	160	115	75	30	11	M10	137	63,5	52,5	105	20
MTA 095	a-b-c-m-t	195	145	95	30	13,5	M12	170	80	67,5	125	20
MTA 120	a-b-c-m-t	220	165	120	30	13,5	M12	195	92,5	77,5	148	20
MTA 150	a-b-c-m-t	260	200	150	30	13,5	M12	230	110	95	200	20

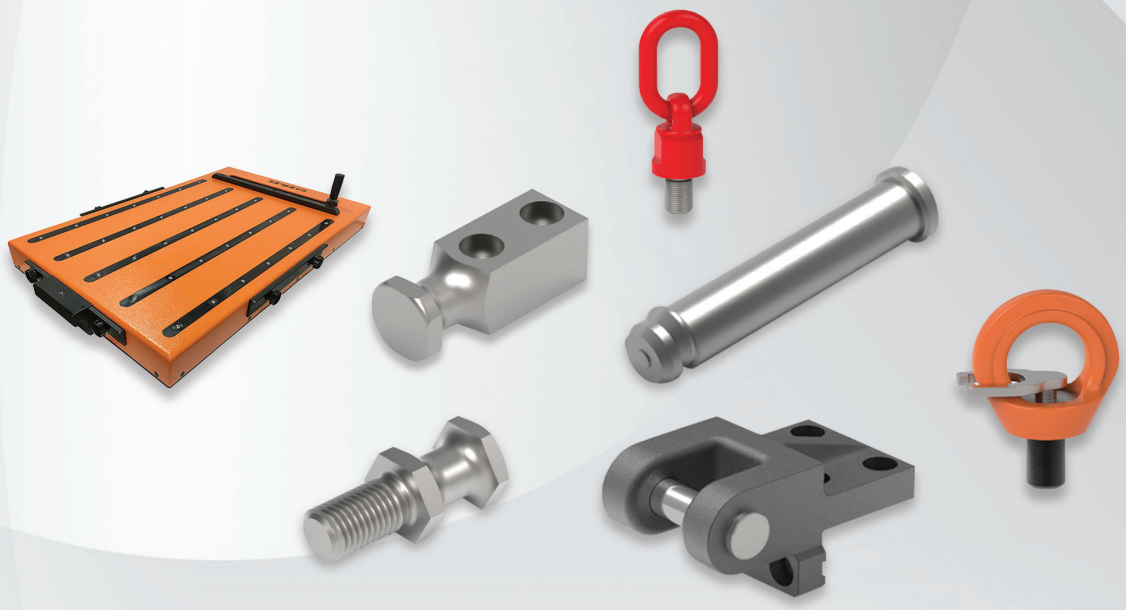
MTB-MTC-MTD MTB-MTC-MTD Serisi Flanşlar





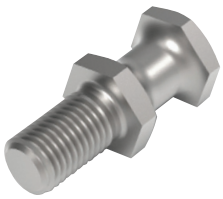
Sipariş Kodu	Reference to Standarts	A	B	C	D	E	ØF	ØG	ØH	J	K
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
MTB 032		80	63	38,5	18	56	32	10,5	17	6	25
MTD 032		68	48	20,9	10	50	32,5	9	15	4	20
MTD 038		74	54	23,9	16	54	38,5	9	15	4	20
MTD 045		80	60	27,5	22	60	45,5	9	15	4	20
MTD 050		90	70	30	25	68	50,5	11	18	5	30
MTD 063		105	80	40	11	80	63	10,5	17	10	30
MTC 063		108	82	36,5	27	84	63,5	11	18	5	30
MTA 075		125	94	42	32	100	75,5	13,5	20	5	30
MTD 095		140	115	52,5	33	115	95,5	13,5	20	5	30
MTD 120		170	140	65	58	145	120,5	13,5	20	7	30
MTD 150		200	170	80	68	175	150,5	13,5	20	7	30

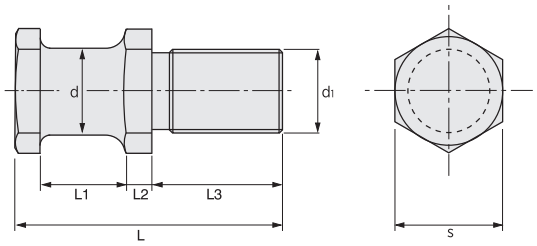
Taşıma Elemanları



MTS102 **Taşıma Pimi** / Lifting Pins

Mat.: C45E



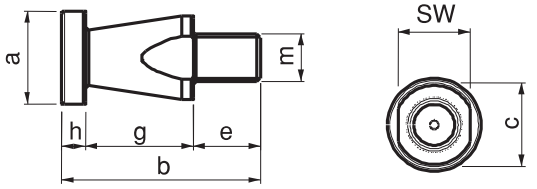


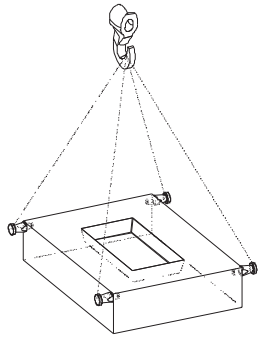
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	d ±0,1	d1	L ±1	L1	L2	L3 ±0,5	s
MTS102/ 16	250	500	16	M16	58	20	5,5	28	24
MTS102/ 20	500	1000	20	M20	68	22	6,5	34	30
MTS102/ 25	1000	2000	25	M24	78	25	8	38	36
MTS102/ 32	1500	3000	32	M30	95	32	10	45	41
MTS102/ 40	2500	5000	40	M36	118	40	12	56	50

EE2730 **Kalıp Taşıma Mapası**

Ringbolt for Mould Carrying







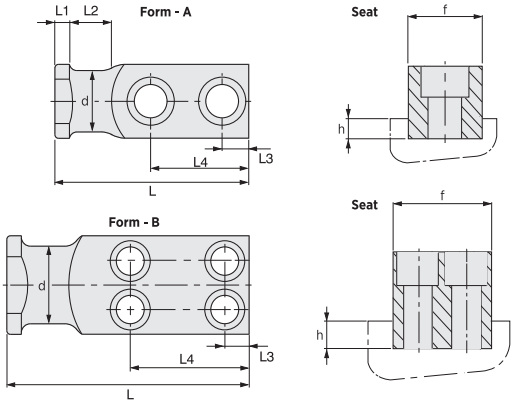
Sipariş Kodu	m	a	b	c	sw	e	g	h	Bir mapanın taşıma kuvveti Kgf	(g)
EE2730-016	M16	39	85	35	30	30	45	10	660	370
EE2730-020	M20	39	85	35	30	30	45	10	1000	390

- Bağlama ölçüsü M16 - M20
- Siyah Kaplama

MTS104 **Taşıma Braketleri** / Lifting Brackets

Mat.: C45E



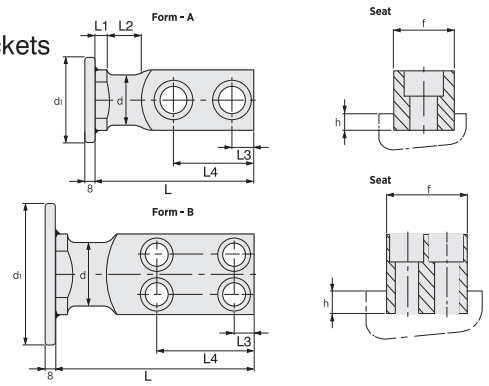


Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	Form	d	L	L1	L2	L3	L4	f +1/±0,5	h	DIN EN ISO 4762 Vida 8.8
MTS104/ 020	320	640	A	16	80	6	20	10	44	20	6	M8x30
MTS104/ 025	630	1260	A	20	90	8	25	10	47	25	8	M10x35
MTS104/ 035	1250	2500	A	25	100	8	30	12	50	35	10	M12x40
MTS104/ 040	2000	4000	A	32	120	10	32	16	62	40	10	M16x55
MTS104/ 050	3200	6400	A	40	140	10	40	18	72	50	12	M20x70
MTS104/ 063	5000	10000	A	50	160	12	45	22	81	60	14	M24x70
MTS104/ 080	8000	16000	B	63	200	12	50	20	98	80	16	M20x100
MTS104/ 100	12500	25000	B	80	250	15	65	25	125	100	18	M24x110
MTS104/ 120	20000	40000	B	100	300	15	80	30	155	120	20	M30x130

MTS105 **Emniyet Plakalı Taşıma Braketi**/ Lifting Brackets

Mat.: C45E



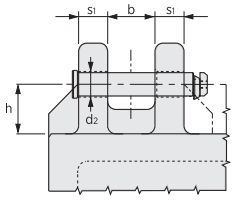


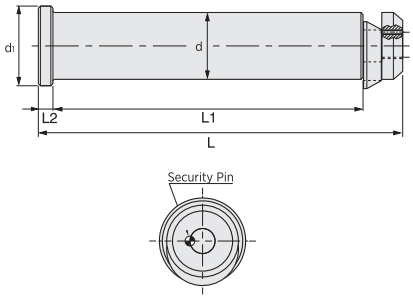
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	Form	d	d1	L	L1	L2	L3	L4	f +1/±0,5	h	DIN EN ISO 4762 Vida 8.8
MTS104/ 020	320	640	A	16	60	80	6	20	10	44	20	6	M8x30
MTS104/ 025	630	1260	A	20	70	90	8	25	10	47	25	8	M10x35
MTS104/ 035	1250	2500	A	25	70	100	8	30	12	50	35	10	M12x40
MTS104/ 040	2000	4000	A	32	110	120	10	32	16	62	40	10	M16x55
MTS104/ 050	3200	6400	A	40	110	140	10	40	18	72	50	12	M20x70
MTS104/ 063	5000	10000	A	50	150	160	12	45	22	81	60	14	M24x70
MTS104/ 080	8000	16000	B	63	150	200	12	50	20	98	80	16	M20x100
MTS104/ 100	12500	25000	B	80	150	250	15	65	25	125	100	18	M24x110
MTS104/ 120	20000	40000	B	100	150	300	15	80	30	155	120	20	M30x130

MTS301 **Taşıma Milleri** / Lifting Pins **VD1 3366 Mercedes Benz**

Mat.: C45E





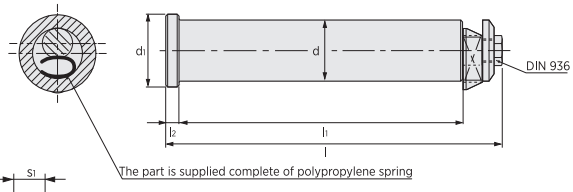


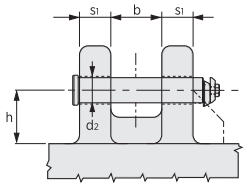
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	d h11	d1	L +1	L1 +1	L2	d2 +1	h	b	s1	Materyal
MTS301/ 032	3200	6400	32	40	175	145	10	34	63	60	40	C45E
MTS301/ 040	5000	10000	40	50	225	188	10	42	80	80	50	C45E
MTS301/ 050	8000	16000	50	60	273	230	11	52	100	100	60	C45E
MTS301/ 063	12500	25000	63	75	347	295	14	65	125	120	80	C45E
MTS301/ 076	20000	63000	76	95	422	360	15	78	160	140	100	42CrMo4+QT

MTS302 **Taşıma Milleri** / Lifting Pins **FCA**

Mat.: 42CrMo4+QT





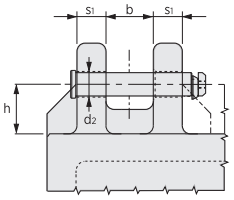


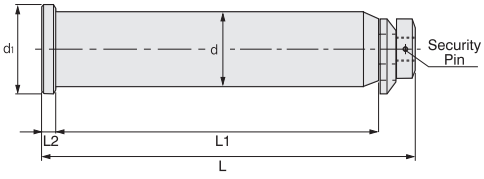
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	d h11	d1	L	L1	L2	d2	h	b	s1
MTS302/ 029	4000	8000	29	38	178,5	150	6	30	60	60	40
MTS302/ 033	7000	14000	33	43	200,5	170	6	35	65	60	50
MTS302/ 043	10000	20000	43	53	233	195	8	45	85	80	50
MTS302/ 053	16000	32000	53	65	282	235	10	55	105	100	60
MTS302/ 053	16000	32000	53	65	227	180	10	55	75	65	50
MTS302/ 063	26000	52000	63	78	272,5	215	12	65	100	80	60
MTS302/ 063	25000	50000	63	78	352,5	295	12	65	130	120	80
MTS302/ 078	40000	80000	78	95	421,5	355	14	81	150	140	100

MTS303 Taşıma Milleri / Lifting Pins Ford

Mat.: 42CrMo4+QT





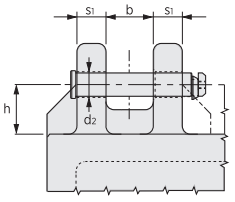


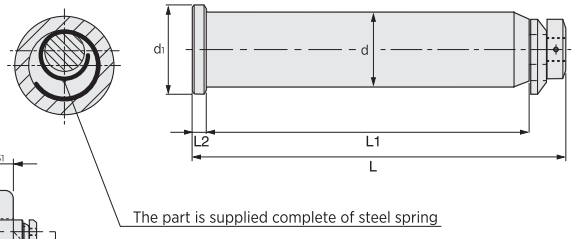
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	d -0,3	d1	L	L1	L2	d2	h min.	b	s1
MTS303/ 035	1500	3000	35	45	165	125	10	37	60	50	30
MTS303/ 050	5500	10050	50	63	230	190	10	52	130	70	50
MTS303/ 063	23000	45500	63	76	320	280	10	65	145	100	80
MTS303/ 080	30000	60000	80	89	370	320	15	82	145	100	100

MTS304 Taşıma Milleri / Lifting Pins FCA

Mat.: 42CrMo4+QT





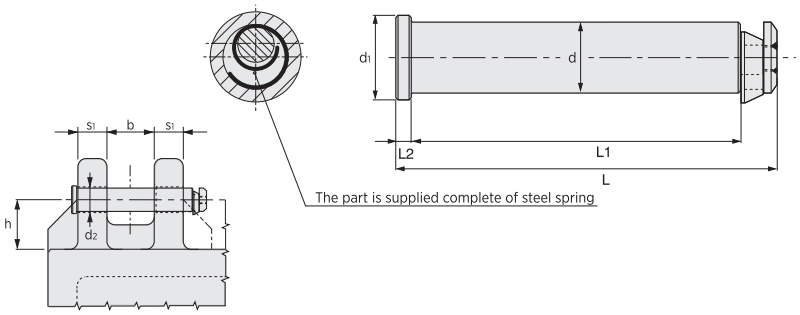


Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	d -0,3	d1	L	L1	L2	d2	h min.	b	s1
MTS304/ 050	10000	20000	50	63	230	190	10	52	70	85	50
MTS304/ 063	20000	40000	63	76	320	280	10	65	100	110	80
MTS304/ 080	40000	80000	80	89	375	320	15	82	105	110	100

MTS305 Taşıma Milleri / Lifting Pins PSA - Renault - CNOMO

Mat.: C45E



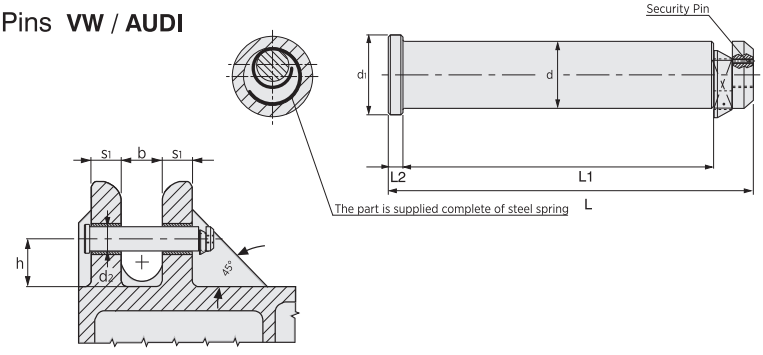


Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	d h11	d1	L +1	L1 +1	L2	d2 +1	h	b	s1
MTS305/ 032	6000	12000	32	40	154	132	6	34	55	50	37,5
MTS305/ 040	9000	18000	40	50	197,5	170	8	42	70	65	47,5
MTS305/ 050	14000	28000	50	63	247,5	212	10	52	90	80	60
MTS305/ 063	22500	45000	63	80	309	265	12	65	100	100	75

MTS309 Taşıma Milleri / Lifting Pins VW / AUDI

Mat.: C45E



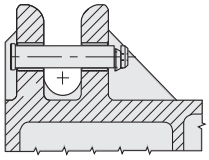


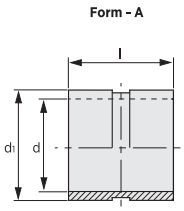
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	Form	d h11	d1	L	L1	L2	d2	h	b	s1	Materyal
MTS309/ 032	3200	6400	A	32	40	175	145	10	34	63	60	40	C45E
MTS309/ 040	5000	10000	A	40	50	225	188	10	42	80	80	50	C45E
MTS309/ 050	8000	16000	A	50	60	273	230	11	52	100	100	60	C45E
MTS309/ 063	12500	25000	A	63	75	347	295	14	65	125	120	80	C45E
MTS309/ 076	31500	63000	A	76	95	422	360	15	78	160	140	100	42CrMo4+QT
MTS309/ 050	8000	16000	B	50	60	221	182	11	-	-	-	-	C45E
MTS309/ 063	12500	25000	B	63	75	277	225	14	-	-	-	-	C45E

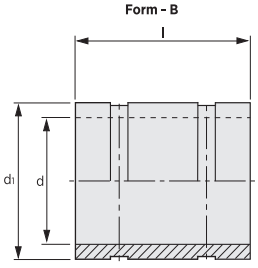
MTS401 **Taşıma Milleri için Burçlar** / Bush for Lifting Pins

Mat.: St35







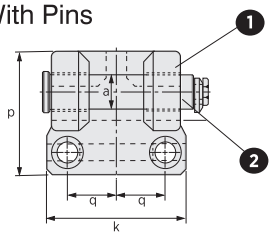


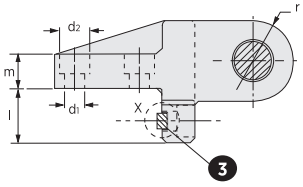
Sipariş Kodu	Form	d	d1	L
MTS401/ 034	A	34	44	40
MTS401/ 042	A	42	52	50
MTS401/ 052	A	52	62	60
MTS401/ 065	A	65	75	80
MTS401/ 078	B	78	100	100
MTS401/ 078	B	78	105	100

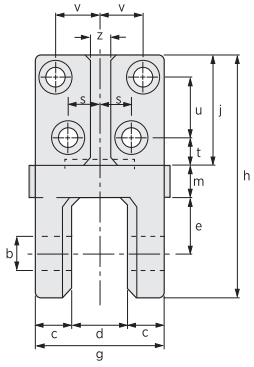
MTS501 **Taşıma Braketleri** / Lifting Brackets With Pins

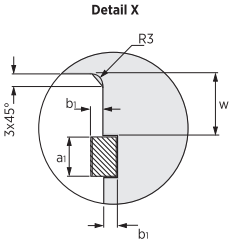
Mat.: C45E











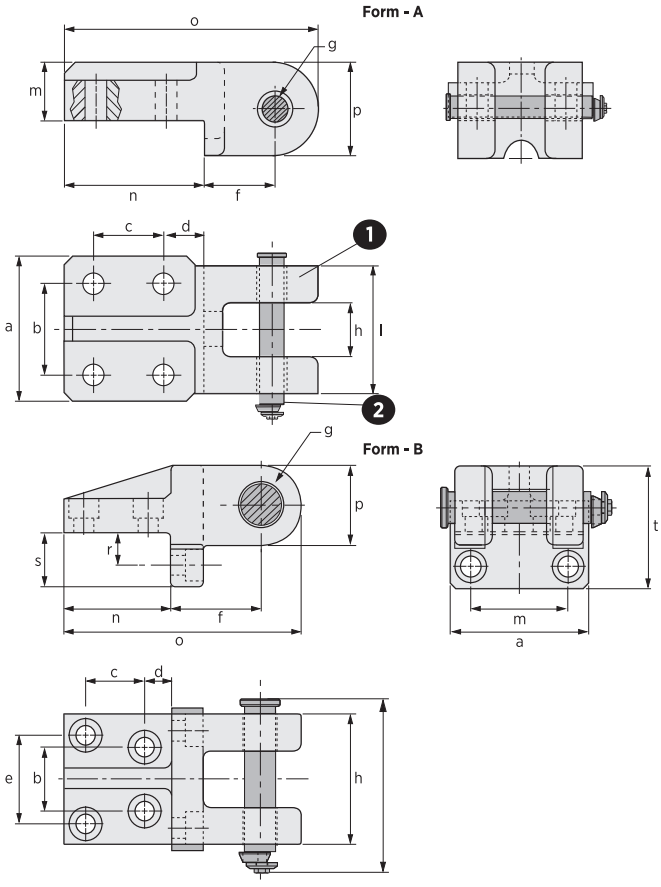
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	a	b H13	c	d	d1 H13	d2 H13	e	g	h	j
MTS501/ 4000	4000	8000	32	33	35	55	18	28	55	125	221	100
MTS501/ 6300	6300	12600	40	41	50	60	22	36	60	160	270	125

Sipariş Kodu	k	l	m	p	q	r	s	t	u	v	w	z	a1 E9	b1 +0,1
MTS501/ 4000	135	50	30	111	48	36	28	20	60	42	24	20	14	4,5
MTS501/ 6300	180	60	40	140	65	45	40	30	70	55	27	25	16	5

MTS502 **Taşıma Braketleri** / Lifting Brackets With Pins

Mat.: C45E





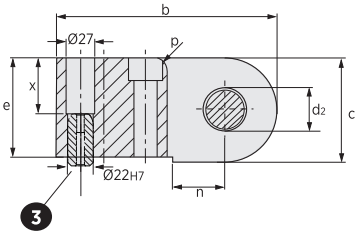
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	Form	a	b	c	d	e	f
MTS502/ 600	600	1200	A	80	50	40	22,5	-	39
MTS502/ 1000	1000	2000	A	90	60	40	27,5	-	42
MTS502/ 2000	2000	4000	A	100	65	65	32,5	-	60
MTS502/ 4000	4000	8000	B	135	56	60	20	84	85
MTS502/ 7000	7000	14000	B	180	80	70	30	110	100

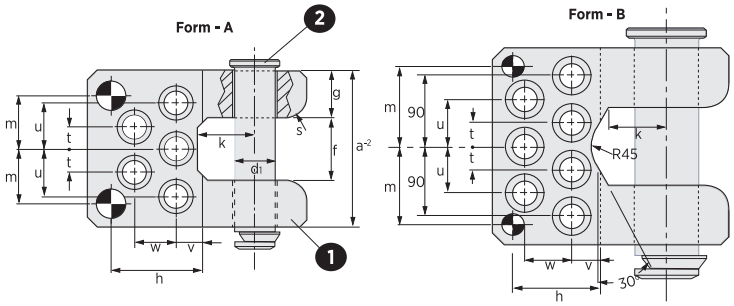
Sipariş Kodu	g	h	l	m	n	o	p	r	s	t
MTS502/ 600	16	70	102,5	32	80	145	52	-	-	-
MTS502/ 1000	21	79	113,5	36	90	160	56	-	-	-
MTS502/ 2000	26	90	128,5	50	120	215	70	-	-	-
MTS502/ 4000	34	125	166,5	96	100	221	72	30	50	111
MTS502/ 7000	44	160	210,5	130	125	270	90	35	60	140

MTS503 **Taşıma Braketleri** / Lifting Brackets With Pins

Mat.: St52







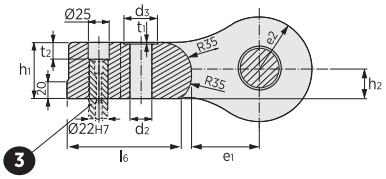
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	Form	a	b	c	d1	d2	e	f	g
MTS503/ 6400	3200	6400	A	126	185	80	30	32	75	50	38
MTS503/ 10000	5000	10000	A	150	210	100	40	42	95	60	45
MTS503/ 16000	8000	16000	A	175	240	120	50	52	115	75	50
MTS503/ 25000	12500	25000	A	200	300	140	60	62	130	80	60
MTS503/ 36000	18000	36000	B	250	300	160	80	82	150	100	75

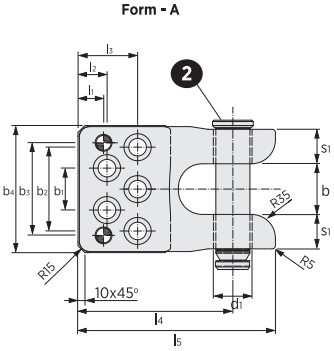
Sipariş Kodu	h ±0,02	k	m	n	p	s	t	u	v	w	x	Civata
MTS503/ 6400	85	50	45	40	12	16	20	40	30	35	40	M16x80
MTS503/ 10000	87	55	52	50	12	20	22,5	45	25	40	60	M20x100
MTS503/ 16000	95	70	62,5	60	16	24	25	50	35	45	80	M24x120
MTS503/ 25000	145	80	77,5	65	20	30	35	65	60	65	95	M36x160
MTS503/ 36000	105	95	100	90	20	30	30	60	30	60	115	M30x160

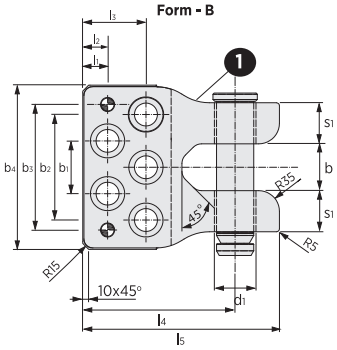
MTS504 **Taşıma Braketleri** / Lifting Brackets With Pins

Mat.: St52









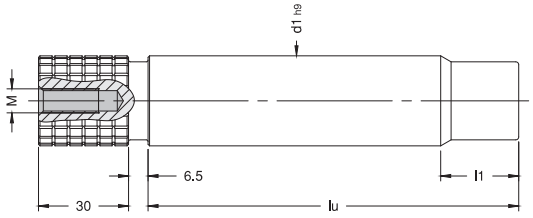
Sipariş Kodu	Maksimum Yük(kg)	Maksimum Kapasite(kg)	Form	b	b1	b2	b3	b4	d1	d2	d3	e1	e2	h1	h2
MTS504/ 8000	8000	16000	A	75	62	124	137	188	52	26	40	80	62,5	67	35
MTS504/ 12500	12500	25000	B	80	90	180	214	280	65	39	58	90	75	91	47

Sipariş Kodu	l1	l2	l3	l4	l5	l6	s1	t1	t2
MTS504/ 8000	37,5	42,5	87,5	227,5	290	135	51	2	20
MTS504/ 12500	42	-	107	258	333	150	70	7	46

MTS510 **Emniyet Pimi** / Pad Retainer Pin

Mat.: Cf53

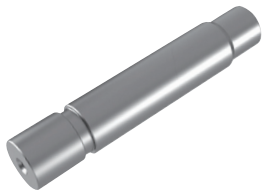


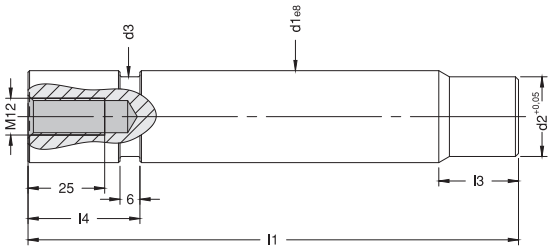


Sipariş Kodu	l1	M	d1	lu	PSA Mabec Code	RENAULT Mabec Code
MTS510/ 2081	19	M8	**20**	**81**	Z000 400 337	R100 306 188
MTS510/ 2581	19	M8	**25**	**81**	Z000 400 338	R100 306 190
MTS510/ 2598	19	M8	**25**	**98**	Z000 400 339	R100 306 191
MTS510/ 32103	26	M8	**32**	**103**	Z000 400 487	R100 306 194
MTS510/ 32148	26	M8	**32**	**148**	Z000 400 342	R100 306 198
MTS510/ 40132	33	M10	**40**	**132**	Z000 400 345	R100 306 201
MTS510/ 40192	33	M10	**40**	**192**	Z000 400 346	R100 306 204
MTS510/ 50165	41	M10	**50**	**165**	Z000 400 349	R100 306 207
MTS510/ 50220	41	M10	**50**	**220**	Z000 400 350	R100 306 209
MTS510/ 63210	51	M12	**63**	**210**	Z000 400 353	R100 306 210
MTS510/ 63250	51	M12	**63**	**250**	Z000 400 354	R100 306 213
MTS510/ 80210	51	M12	**80**	**210**	Z000 400 846	R100 357 232

MTS520 **Emniyet Pimi** / Pad Retainer Pin

Mat.: Cf53

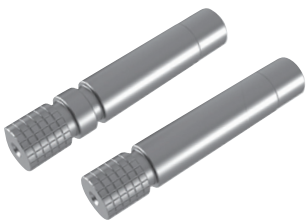




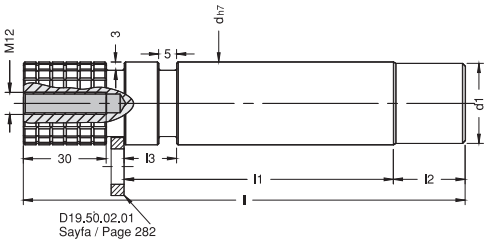
Sipariş Kodu	d2	d3	l3	l4	Max. Taşıma Kapasitesi Max. Load	d1	l1	BMW CODE	VW/AUDI CODE
MTS520/ 32105	29	24	25	22	500 kg	32	105	B2 5702 11 2169033	39D584/1
MTS520/ 32122							122	B2 5702 11 2169034	39D584/2
MTS520/ 40139	37	32	32	32	750 kg	40	139	B2 5702 11 2169035	39D584/3
MTS520/ 40159							159	B2 5702 11 2169036	39D584/4
MTS520/ 50167	47	42	40		1250 kg	50	167	B2 5702 11 2169037	39D584/5
MTS520/ 50192							192	B2 5702 11 2169038	39D584/6
MTS520/ 63202	60	55	50		2500 kg	63	202	B2 5702 11 2169039	39D584/7
MTS520/ 63237							237	B2 5702 11 2169040	39D854/8

MTS530 **Emniyet Pimi** / Pad Retainer Pin

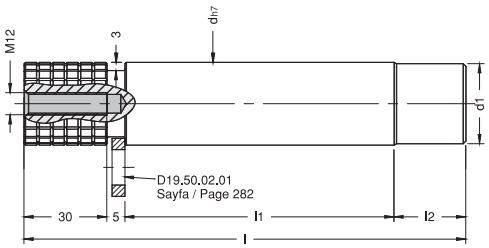
Mat.: Cf53



Form A



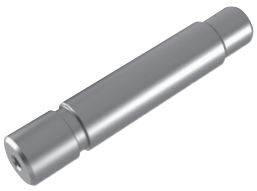
Form B

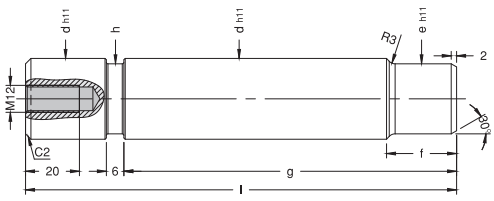


Sipariş Kodu	Form	d1	l1	l2	**l3**	d	l
MTS530/ 30155	A	29	87	33	19	30	155
MTS530/ 40193	A	39	109	39	21	40	193
MTS530/ 50229	A	49	131	43	23	50	229
MTS530/ 40172	B	39	88	39	-	40	172
MTS530/ 50206	B	49	108	43	-	50	206

MTS540 **Emniyet Pimi**/ Pad Retainer Pin

Mat.: Cf53



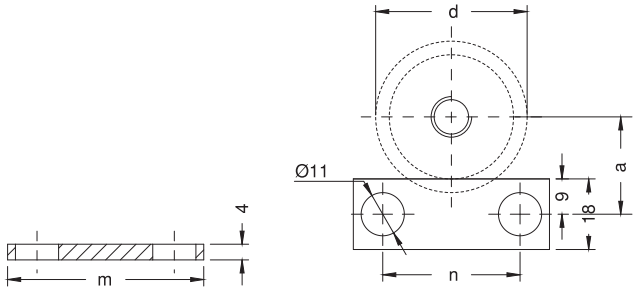


Sipariş Kodu	e	f	g	h	d	l	Taşıma Kapasitesi
MTS540/ 25110	22	25	75	17	25	110	1.000
MTS540/ 35130	32	30	95	27	35	130	2.500
MTS540/ 50170	47	35	135	42	50	170	5.000
MTS540/ 63210	60	45	170	55	63	210	8.000

MTS550 **Emniyet Pimi Tutucusu** / Pad Retainer Pin

Mat.: Cf53



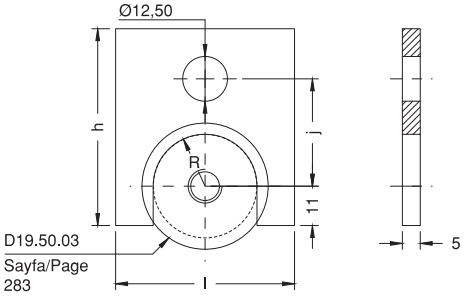


Sipariş Kodu	m	n	a	d
MTS550/ 0201	50	35	22	30
MTS550/ 0202	65	45	27	40
MTS550/ 0203	70	50	32	50

MTS560 **Emniyet Pimi Tutucusu** / Pad Retainer Pin

Mat.: Cf53



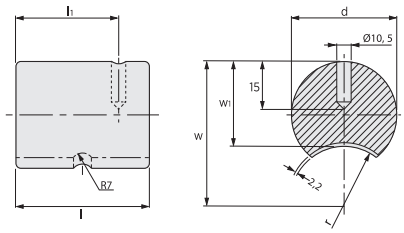


Sipariş Kodu	l	h	j	R	d
MTS560/ 25110	40	50	25	9,5	25
MTS560/ 35130	50	55	30	14,5	35
MTS560/ 50170	60	60	37,5	22	50
MTS560/ 63210	80	70	44	28,5	63

MTS570 **Emniyet Pimi Amortisör Vulkolonlar** / Shock Absorber for Pad Retainer Pins

Mat.: Elastomer 92 Sh



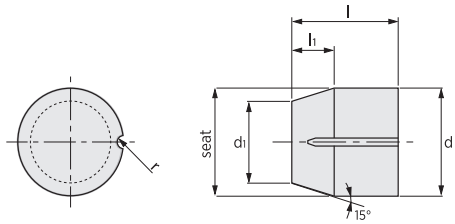


Sipariş Kodu	d ±0,25	w	l	l1	w1	r
MTS570/ 040060	40	50	60	45	32	18
MTS570/ 050080	50	63	80	60	40	23
MTS570/ 063080	63	86	80	60	51	35

MTS580 **Emniyet Tıpa** / Elastomer Cap

Mat.: Elastomer 92 Shore



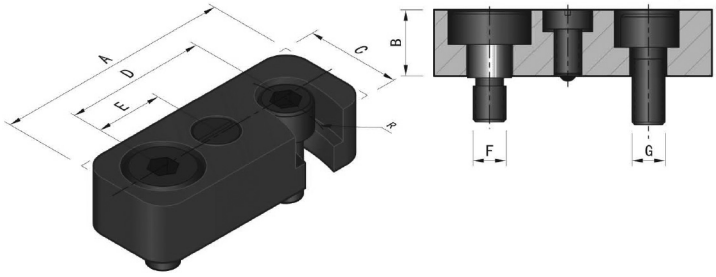


Sipariş Kodu	d +0,3 / +0,5	l	l1	d1	r	Seat ±0,1	F max. (N)
MTS580/ 006	6	10	4,5	3,6	-	6	100
MTS580/ 010	10	15,5	7,5	6	0,5	10	450
MTS580/ 016	16	25	12	9,5	1,5	16	1500
MTS580/ 024	24	25	10	18	2	24	3000
MTS580/ 030	30	35	19	20	2,5	30	3000
MTS580/ 032	32	32	14	24	3	32	12000
MTS580/ 039	39,5	40	16	30	3	39,5	25000

MTS590 **Kalıp Emniyet Mandalı** / Total Safety Devices

Mat.: Elastomer 92 Sh



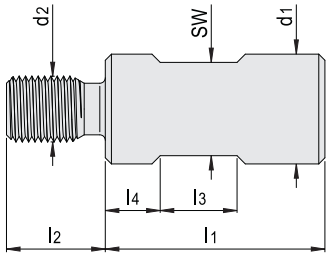


Sipariş Kodu	A	B	C	D	E	R	F	G
MTS590/ 12	50	12	20	30	14	30	M6	M6
MTS590/ 16	63	16	25	38	17	38	M8	M8
MTS590/ 20	80	20	32	48	20	48	M10	M10

MTS600 **Enjeksiyon Kalıp Destek Ayağı** / Support Bolt

Mat.: 1.7131



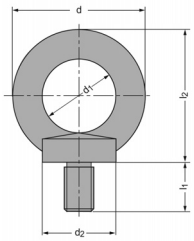


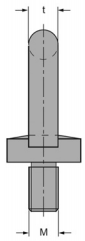
Sipariş Kodu	sw	d2	l2	l3	l4	d1	l1
MTS600/20/25	17	M12	18	14	6	20	25
MTS600/20/40					15		40
MTS600/20/45							45
MTS600/20/50							50
MTS600/20/80							80
MTS600/32/25	27	M16	24	18	4	32	25
MTS600/32/45					15		45
MTS600/32/50							50
MTS600/32/80							80
MTS600/32/120							120

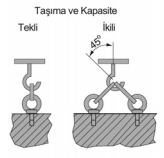
MTM101 Sabit Taşıma Mapası / Eye Bolts

Mat.: St52





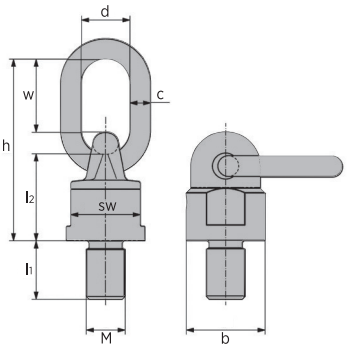




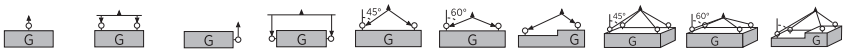
Sipariş Kodu	Mak. Yük (Kg)	Ağırlık (Kg)	M	d	d1	d2	l1	l2	t
MTM101/08	140	100	**M8**	36	20	20	13	36	8
MTM101/10	230	170	**M10**	45	25	25	17	45	10
MTM101/12	340	240	**M12**	54	30	30	20.5	53	12
MTM101/16	700	500	**M16**	63	35	35	27	62	14
MTM101/20	1200	860	**M20**	72	40	40	30	71	16
MTM101/24	1800	1290	**M24**	90	50	50	36	90	20
MTM101/30	3200g	2300	**M30**	108	60	60	45	109	24
MTM101/36	4600	3300	**M36**	126	70	70	54	128	28
MTM101/42	5900	4300	**M42**	144	80	80	63	147	32

MTM110 **Halkalı Döner Taşıma Mapaları** / Rotating Eyebolts With Ring **Fırdöndü**





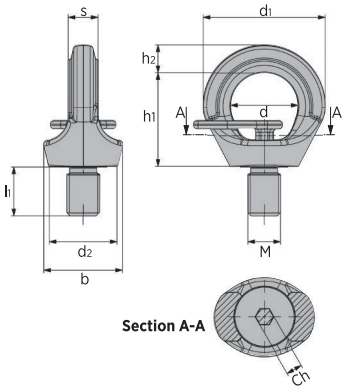
Sipariş Kodu	MxI1	Çalışma Yükü Sınırı (t)	d	h	l2	b	c	w	sw	Ağırlık (Kg)
MTM110/08	**M8x16**	0,3	30	105	50	38	13	46	30	0,480
MTM110/10	**M10x18**	0,3	30	105	50	38	13	46	30	0,480
MTM110/12	**M12x18**	0,5	30	105	50	38	13	46	30	0,500
MTM110/16	**M16x20**	1,12	30	105	50	38	13	46	30	0,530
MTM110/20	**M20x30**	1,12	30	105	50	38	13	46	30	0,530
MTM110/24	**M24x30**	3,15	40	153	68	58	18	70	48	1,630
MTM110/30	**M30x35**	8	50	205	95	85	23	95	75	5,300



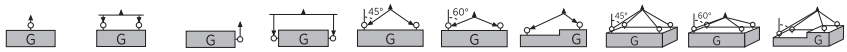
	0°	0°	90°	90°	0° - 45°	45° - 60°	Asimm	0° - 45°	45° - 60°	Asimm	
MxI1	Tek Bacak	2 Bacak	Tek Bacak	2 Bacak	2 Bacak			3/4 Bacak			Mak. Sıkma Çifti (Nm)
M8x16	0,6	1,2	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	16
M10x18	0,6	1,2	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	16
M12x18	1	2	0,5	1	0,75	0,5	0,5	1,1	0,75	0,5	28
M16x20	2	4	1,12	2	1,5	1,12	1,12	2,36	1,6	1,12	70
M20x30	2	4	1,12	2	1,5	1,12	1,12	2,36	1,6	1,12	135
M24x30	6,3	12,5	3,15	6,3	4,25	3,15	3,15	6,3	4,75	3,15	230
M30x35	12,5	25	8	16	11,2	8	8	16,8	12	8	465

MTM120 Döner Taşıma Mapaları H.T / Rotating Eyebolts H.T.





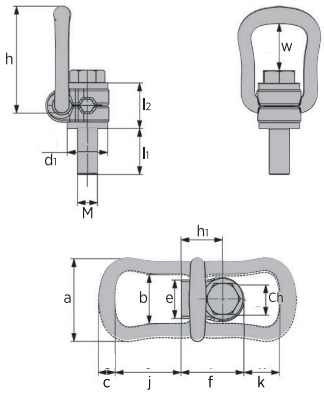
Sipariş Kodu	MxI1	Çalışma Yükü Sınırı (t)	d	d1	d2	h1	h2	b	s	Ch	Ağırlık (Kg)
MTM120/08	M8x12	0,3	25	46	25,5	33,7	10	30	9,8	6	0,120
MTM120/10	M10x15	0,4	25	46	25,5	33,7	10	30	9,8	6	0,120
MTM120/12	M12x18	0,75	30	55,5	30,6	41,5	12,5	36,5	11,5	8	0,200
MTM120/16	M16x24	1,5	35	64,5	36,5	49,5	14,5	42	15,7	10	0,350
MTM120/20	M20x30	2,3	40	74,5	42	58	16	52,5	18	12	0,600
MTM120/24	M24x36	3,2	49	90	50	69	20,5	61	22	12	1,000
MTM120/30	M30x45	4,5	60	111	66	86	25,5	75	28	17	2,000
MTM120/36	M36x55	7	74	135	77	105	32	96,5	30	22	3,400



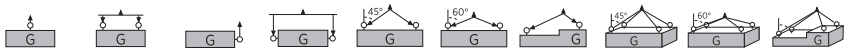
	0°	0°	90°	90°	0° - 45°	45° - 60°	Asimm	0° - 45°	45° - 60°	Asimm	
MxI1	Tek Bacak	2 Bacak	Tek Bacak	2 Bacak	2 Bacak			3/4 Bacak			Mak. Sıkma Çifti (Nm)
M8x12	1	2	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	8
M10x15	1	2	0,4	0,8	0,56	0,4	0,4	0,84	0,6	0,4	16
M12x18	2	4	0,75	1,5	1	0,75	0,75	1,6	1,12	0,75	25
M16x24	4	8	1,5	3	2	1,5	1,5	3,15	2,25	1,5	60
M20x30	6	12	2,3	4,6	3,22	2,3	2,3	4,83	3,45	2,3	110
M24x36	8	16	3,2	6,4	4,48	3,2	3,2	6,7	4,8	3,2	195
M30x45	12	24	4,5	9	6,3	4,5	4,5	9,4	6,7	4,5	320
M36x55	16	32	7	14	9,8	7	7	14,7	10,5	7	585

MTM130 Döner Taşıma Mapa Klempli / Rotating Eyebolts Clamp





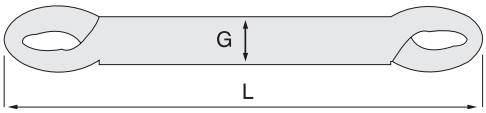
Sipariş Kodu	MxI1	Çalışma Yükü Sınırı (t)	d1	h	h1	l1	l2	a	b	c	e	f	w	j	k	Ch	Ağırlık (Kg)
MTM130/08	M8x15	0,3	25	78	26,5	15	30	57	34	10	24	41	43	51	35	13	0,275
MTM130/10	M10x15	0,63	25	78	26,5	15	30	57	34	10	24	41	42	51	35	17	0,290
MTM130/12	M12x23	1	32	85	33	23	36	66	38	13,5	30	50	40	52	28	19	0,500
MTM130/16	M16x24	1,5	32	85	33	24	36	66	38	13,5	30	50	38	52	28	24	0,510
MTM130/20	M20x31	2,5	45	111	42,5	31	44	87	55	16	48	68	54	71	36	30	1,250
MTM130/24	M24x37	4	45	111	42,5	37	44	87	55	16	48	68	51	71	36	36	1,300
MTM130/30	M30x45	5	60	145	58,5	45	65	109	66	22,5	54	91	62	86	47	46	3,250
MTM130/36	M36x59	8	70	190	72,5	59	81	136	78	28	62	108	88	115	74	55	5,900



	0°	0°	90°	90°	0° - 45°	45° - 60°	Asimm	0° - 45°	45° - 60°	Asimm	
MxI1	Tek Bacak	2 Bacak	Tek Bacak	2 Bacak	2 Bacak			3/4 Bacak			Mak. Sıkma Çifti (Nm)
M8x15	0,3	0,6	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	30
M10x15	0,63	1,26	0,63	1,26	0,88	0,63	0,63	1,32	0,95	0,63	60
M12x23	1	2	1	2	1,4	1	1	2,1	1,5	1	100
M16x24	1,5	3	1,5	3	2,1	1,5	1,5	3,15	2,25	1,5	150
M20x31	2,5	5	2,5	5	3,5	2,5	2,5	5,25	3,75	2,5	250
M24x37	4	8	4	8	5,6	4	4	8,4	6	4	400
M30x45	5	10	5	10	7	5	5	10,5	7,5	5	500
M36x59	8	16	8	16	11,2	8	8	16,8	12	8	800

MPS100 **Polyester Sapan** / Polyester Round Sling





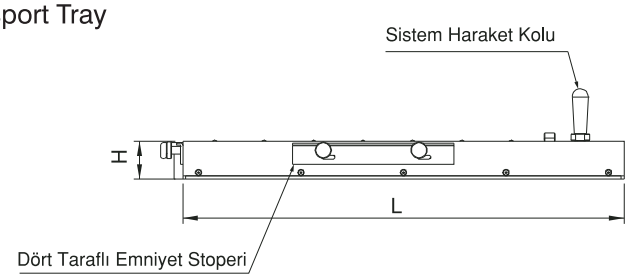
Sipariş Örneği | Yük x Boy

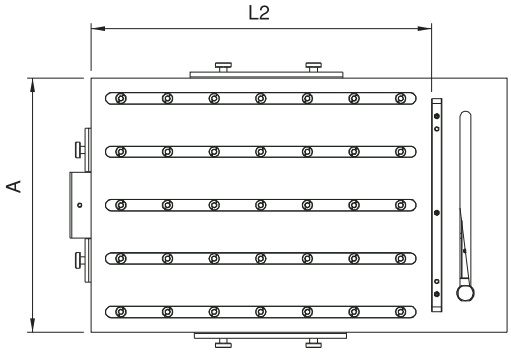
Yük Kapasite	Sapan Boyu (Metre)								
	G (mm)	1mt	2mt	3 mt	4 mt	5 mt	6 mt	8 mt	10 mt
1.000 kg	25	●	●	●	●	●	●		
2.000 kg	50	●	●	●	●	●	●	●	
3.000 kg	75		●	●	●	●	●	●	●
4.000 kg	100		●	●	●	●	●	●	●
5.000 kg	125			●	●	●	●	●	●
6.000 kg	150			●	●	●	●	●	●
8.000 kg	200			●	●	●	●	●	●
10.000 kg	250			●	●	●	●	●	●

Sapan Renk	% 100	% 80	% 200	0^0-45^0 % 140	45^0-60^0 % 100
MOR	1 Ton	0.8	2 Ton	1.4	1 Ton
YEŞİL	2 Ton	1.6	4 Ton	2.8	2 Ton
SARI	3 Ton	2.4	6 Ton	4.2	3 Ton
GRİ	4 Ton	3.2	8 Ton	5.6	4 Ton
KIRMIZI	5 Ton	4.0	10 Ton	7.0	5 Ton
KAHVE	6 Ton	4.8	12 Ton	8.4	6 Ton
MAVİ	8 Ton	6.4	16 Ton	11.2	8 Ton
TURUNCU	10 Ton	8.0	20 Ton	14	10 Ton

EE/1024 Kalıp Yükleme Tablası / Mold Transport Tray



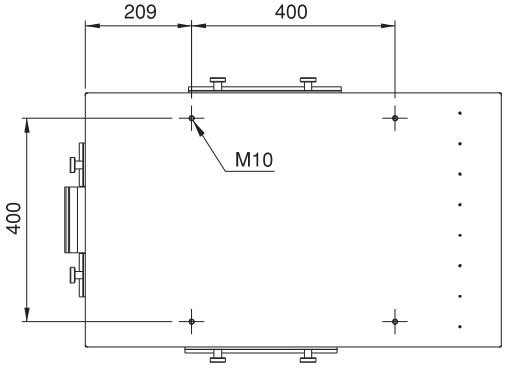




Sipariş Kodu	A	L2	H	L	Kapasite
EE/1024-500670	500	670	71	818	1 Ton / Tone



Taşıma Arabası ve Benzer Ekipmanlar İçin Montaj Delikleri





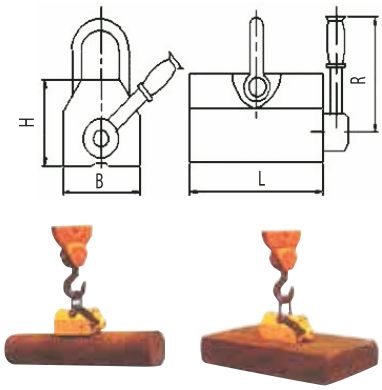
Kalıp Yükleme Tablası Uygulamaları



Kalıp Yükleme Tablası | Kalıp Yükleme Tablası (Arabalı) | Kalıp Yükleme Tablası (Elektrikli Forklift) | Kalıp Yükleme Tablası (Forklift)

MSM200 **Manyetik Yük Kaldırma Mıknatısı** / Lifting Magnet

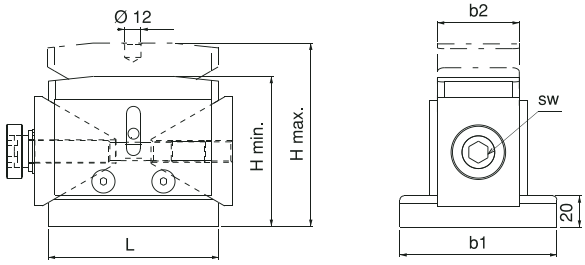




Sipariş Kodu	Çalışma Yükü (Kg)	Test Yükü (Kg)	Uzunluk L (mm)	Genişlik B (mm)	Yükseklik H (mm)	Ağırlık (Kg)
MSM200 / 0100	**100**	350	100	82	80	5.5
MSM200 / 0300	**300**	1050	175	105	100	11.5
MSM200 / 0600	**600**	2100	225	140	125	26.5
MSM200 / 1000	**1000**	3500	280	160	155	48
MSM200 / 2000	**2000**	6000	360	210	185	80
MSM200 / 3000	**3000**	9000	435	286	245	180
MSM200 / 5000	**5000**	15000	540	316	295	380

EE/1520 **Blok Destek - Ağır İş** / Support Block





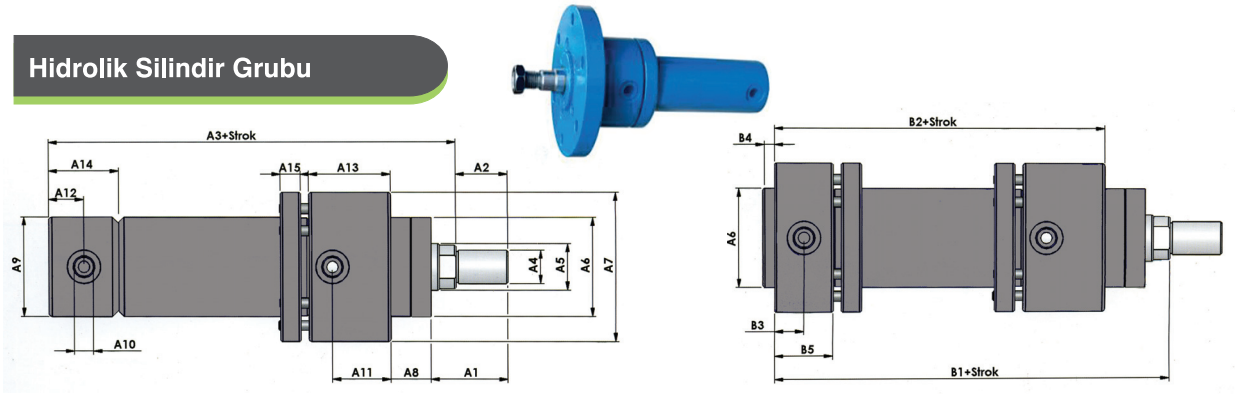
Sipariş Kodu	H min.	H max.	b1	b2	L	sw	kgf	(g)
EE/1520-050063	50	63	-	40	63	8	4000	1890
EE/1520-100125	100	125	115	60	125	14	10000	9910
EE/1520-170190	170	190	145	80	175	22	25000	28480

- Blok destek ile büyük ve hassas kalıplarda kaldırma ve kaydırma pozisyonu sağlanır.
- Blok yüzeyi hassas işlenmiş, özellikle ağır parçaların desteklenmesi ve kaldırılması için tasarlanan ürün sağlam konstrüksiyon, hassas ve düzgün yükseklik ayarının 1/10 mm hassasiyet ile yapılmasına izin verir.
- Yüksek ayarı vida ve allen anahtar ile yapılır.
- Çift etki büyük strok ve yana kayma olmadan hasas bir düşey hareketi tamamlar.
- Büyük takım tezgahlarında özellikle markalamadan sonra ağır dövme ve döküm parçalarının işlenmesinde kullanılır.

Hidrolik Ürünler



Hidrolik Silindir Grubu



TİP MSPS **TİP MCHS**

Hidrolik Silindirler, enjeksiyon kalıplarında maça sistemleri ve atık su için kullanılır. Enjeksiyon makinasında bağlantı tipleri ile piston hareketi sağlanır.

Çalışma : Hidrolik Yağ **Maks. Çalışma Basıncı** : 160 Bar **Çalışma Sıcaklığı** : -20 +80° **Strok Hatası** : ±0,3 mm
Mil : C45 Sert Krom Kaplı **Boru** : ST-52 Honlanmış **Sızdırmazlık** : Poliüretan + NBR

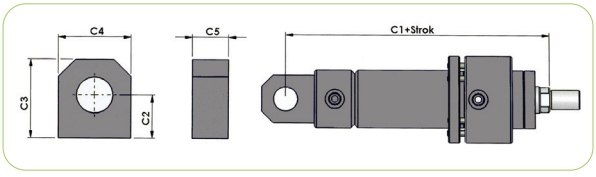
Standart Stroklar : 50 - 100 - 160 - 200 - 250 mm

Sipariş Örneği: Tip - Seri - Strok-Bağlantı Tipi

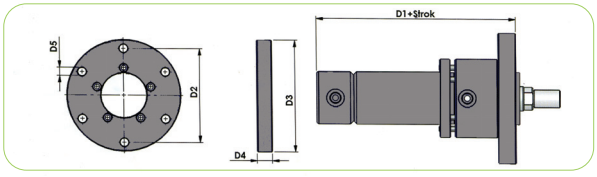
Seri	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	B1	B2	B3	B4	B5
40	35	22	160	M16x1.5	22	50	80	80	50	1/4	31	15	42	30	12	155	122	11.5	7	23
50	46	31	194	M20x1.5	28	60	95	95	60	1/4	35	21	49	42	12	187	148	17.5	7	35
63	55	39	208	M27x2	36	70	125	125	75	3/8	41	22.5	59	45	15	201	161	19	7	38
80	65	47	235	M33x2	45	85	130	130	95	3/8	41	29	68	51	18	228	180	22	7	44
100	80	60	244	M42x2	56	109	160	160	115	1/2	47	26.5	73	53	20	237	187	23	7	46
125	90	67	279	M48x2	70	130	195	195	145	1/2	48	30	83	60	25	272	212	26.5	7	53
160	110	85	310	M64x2	90	160	235	235	180	3/4	60	33.5	90	67	28	303	238	30	7	60
200	115	95	350	M80x3	110	200	295	295	230	3/4	80	37.5	110	75	33	343	278	34	7	68

Bağlantı Tipleri

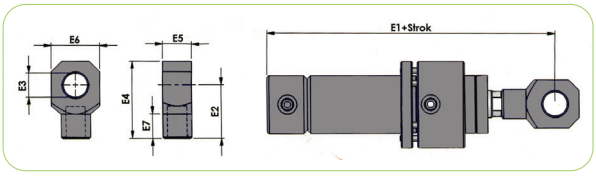
Eklem Bağlantı MEB



Flanş Bağlantı MFB



Mafsal Bağlantı MLB

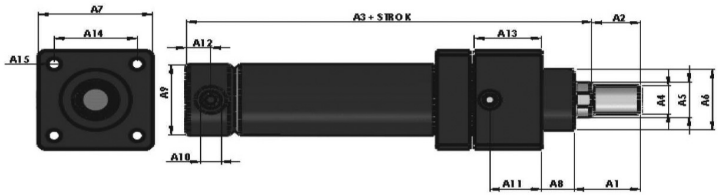


Seri	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5	E6	E7
40	192	30	50	40	20	145	107	130	16	11	212	50	20	70	25	40	20
50	224	30	55	50	25	175	126	150	20	11	249	55	25	80	30	50	25
63	248	40	70	60	30	188	145	175	20	14	278	70	32	104	40	60	29
80	280	45	80	70	35	213	165	200	26	18	317	82	40	119	40	80	29
100	307	63	113	100	45	224	200	240	30	22	359	115	50	165	50	100	50
125	349	70	130	120	60	251	235	280	32	22	399	120	60	180	60	120	50
160	410	100	170	160	70	280	280	330	35	22	480	170	80	240	100	160	70
200	470	120	210	200	80	325	340	390	40	26	540	190	100	280	100	200	70

Kare Tip Hidrolik Silindirler



Standart Tip - MBST



Eklem Bağlantı Tip - MEST



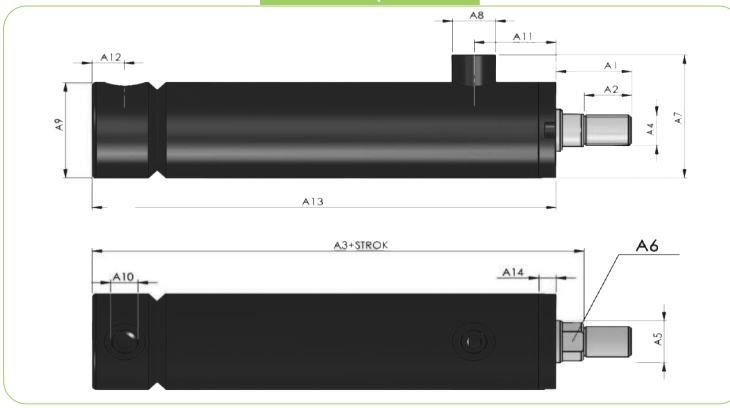
Sipariş Örneği | Tip - Seri - Strok

Seri	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	B1	B2	B3	B4	B5
40	41	30	170	M20x1,5	25	50	70	20	50	1/4	31,5	15	41	51	M10	200	30	50	40	20
50	39	26	178	M20x1.5	28	62	78	25	60	1/4	26	21	37	56	M10	208	30	55	50	25
63	51	39	189	M27x2	36	70	95	30	75	3/8	28	22.5	41	70	M10	229	40	70	60	30
80	65	47	235	M33x2	45	85	115	30	95	3/8	41	29	68	90	M12	280	45	80	70	35

Boru Tip Hidrolik Siindirler



Standart Tip - MKST



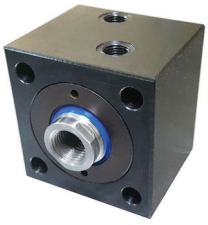
Eklem Bağlantılı Tip - MKET



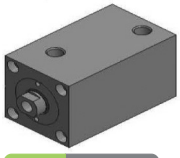
Sipariş Örneği | Tip - Seri - Strok

Seri	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	B1	B2	B3	B4	B5
40	35	22	160	M16x1.5	22	17	65	20	50	1/4	40	15	115	8	155	30	50	40	20	20
50	46	31	194	M20x1.5	28	22	75	20	60	1/4	43	21	137	8	182	30	55	50	25	25
63	55	39	208	M27x2	36	30	90	25	75	3/8	50	22.5	147	10	203	40	70	60	30	32
80	65	47	235	M33x2	45	36	110	25	95	3/8	60	29	191	10	254	45	80	70	35	40
100	80	60	244	M42x2	56	46	135	30	115	1/2	82	26.5	191	12	274	53	113	100	45	50
125	90	67	279	M48x2	70	60	165	30	145	1/2	82	30	206	12	299	70	130	120	60	60

KSH Kare Tip Hidrolik Piston Önden Bağlantılı

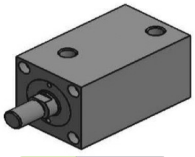


Dişi

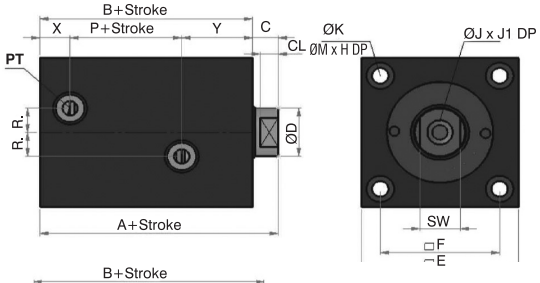


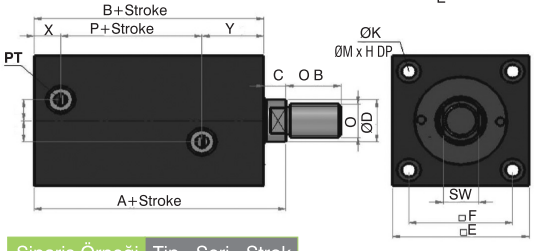
TİP KSHD

Erkek



TİP KSHE





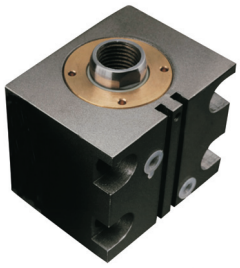
Sipariş Örneği Tip - Seri - Strok

Seri	A	B	C	CL	D	E	F	H
32	64	54	10	7	20	62	47	6.5
40	65	55	10	7	25	70	52	9
50	71	60	11	8	28	80	58	11
63	80	67	13	10	36	94	69	13
80	95	78	17	14	45	114	86	15

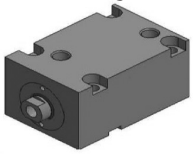
Seri	J	J1	K	M	O	OB
32	M12x1.75	15	6.5	11	M16x1.5	25
40	M16x2	20	9	14	M20x1.5	30
50	M20x2.5	25	11	18	M20x1.5	35
63	M27x3	35	14	20	M27x2	40
80	M30x3.5	35	16	23	M33x2	45

Seri	P	PT	R	SW	X	Y
32	14	1/4”	10	17	12	28
40	15	1/4”	10	22	12	28
50	18	1/4”	10	22	12.5	29.5
63	20	3/8”	10	30	16	31
80	27	3/8”	15	36	18	33

KSC Kare Tip Hidrolik Piston Üstten Bağlantılı

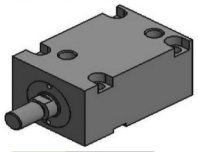


Dişi

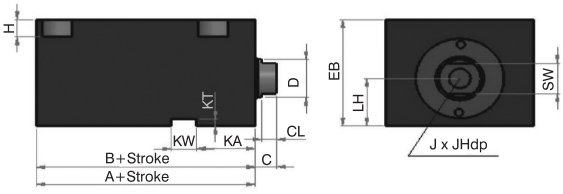


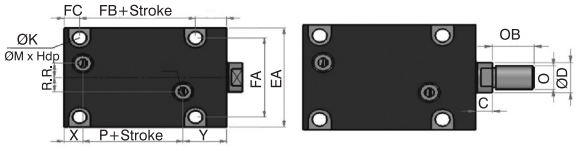
TİP KSCD

Erkek



TİP KSCE





Sipariş Örneği Tip - Seri - Strok

Seri	A	B	C	CL	D	EA	EB	FA	FB	FC
32	64	54	10	7	20	70	56	56	24	10
40	65	55	10	7	25	80	64	62	23	12
50	71	60	11	8	28	94	74	74	27	13
63	80	67	13	10	36	114	89	90	32	15

Seri	H	J	JH	K	KA	KW	KT	LH	M
32	9	M12x1.75	15	9	28	12	3.5	25	14
40	11	M16x2	20	11	28	12	3.5	29	18
50	13	M20x2.5	25	14	29	14	4	34	20
63	15	M27x3	35	16	31	16	4.5	42	23

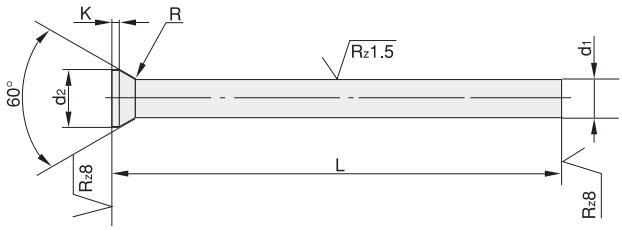
Seri	O	OB	P	PT	R	SW	X	Y
32	M16x1.5	25	14	1/4”	10	17	12	28
40	M20x1.5	30	15	1/4”	10	22	12	28
50	M20x1.5	35	18	1/4”	10	22	12.5	29.5
63	M27x2	40	20	3/8”	10	30	16	31

Zımbalar ve Matrisler



M1840 Havşa Başlı HSS Zımba





Malzeme : ≥ Ø12=1.3343 (HSS) komple taşlanmış
<Ø12=1.2379 (HWS) komple taşlanmış
Isıl İşlemli : 64 HRC ± 2
Yüzey : ≥ 950 HV 0.3
Kafa Sertliği: 52 ±3 HRC

Sipariş Örneği M1840/d1XL

d1 h6	d2	K	L +0.5				
			71	80	100	125	160
0.5	0.9	0.2	●	●	●		
0.6	1.1		●	●	●		
0.7	1.3		●	●	●		
0.8	1.4	0.4	●	●	●		
0.9	1.6		●	●	●		
1.0/1.1	1.8	0.5	●	●	●		
1.2/1.3	2.0		●	●	●		
1.4/1.5	2.2		●	●	●		
1.6/1.7	2.5		●	●	●		
1.8/1.9	2.8		●	●	●		
2.0	3.0		●	●	●	●	●
2.1/2.2	3.2		●	●	●		
2.3/2.5	3.5		●	●	●	●	●
2.6/2.9	4.0		●	●	●		
3.0/3.4	4.5		●	●	●	●	●
3.5/3.9	5.0		●	●	●	●	●
4.0/4.4	5.5		●	●	●	●	●
4.5/4.9	6.0		●	●	●	●	●
5.0/5.4	6.5		●	●	●	●	●
5.5/5.9	7.0		●	●	●	●	●
6.0/6.4	8.0		●	●	●	●	●
6.5/7.4	9.0	1.0	●	●	●	●	●
7.5/8.4	10.0		●	●	●	●	●
8.5/9.4	11.0		●	●	●	●	●
9.5/10.0	12.0		●	●	●	●	●
10.5/11.0	13.0		●	●	●	●	●
11.5/12.0	14.0		●	●	●	●	●
12.5/13.0	15.0		●	●	●	●	●
13.5/14.0	16.0	1.5	●	●	●	●	●
14.5/15.0	17.0		●	●	●	●	●
16.0	18.0		●	●	●	●	●
17.0	19.0		●	●	●	●	●
18.0	20.0		●	●	●	●	●
20.0	22.0		●	●	●	●	●

M1841 Vida Yeri Oluşturma HSS Zımba



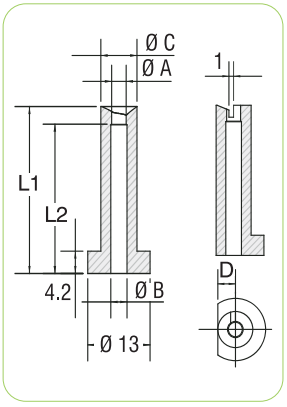
"M1841" 3 temel parçadan oluşmaktadır. **1-** HSS Zımba **2-** Kabartma Zımbası **3-** Kabartma Mühresi

Çalışma sistematiği açısından tüm sac kesme ve şekil verme kalıplarında, pres makinelerinde ön delikleri delinmiş iki sac plakasını birleştirme amaçlı vida yerlerini oluşturur.

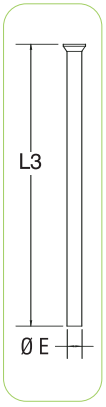
Kullanım Şekli : HSS Zımba yataklama burcunun içerisine yeşleştirilerek baskı operasyonuna getirilir. Burcun ağız formunda vida yerine birleştirilecek olan saclar vidalamaya hazır hale gelir. Ünite, vida diş ölçü toleransında deliği vidalama ve birleştirme için kabartma ile helis diş kanallarını hazırlar.

Tolerans belirtilmeyen tüm ölçüler DIN ISO 2768 T1 (f) standartlarına göredir.

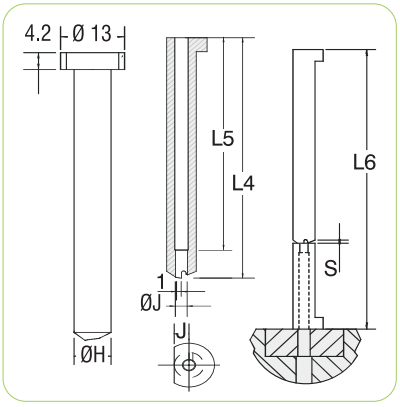
Kabartma Mühresi



HSS Zımba



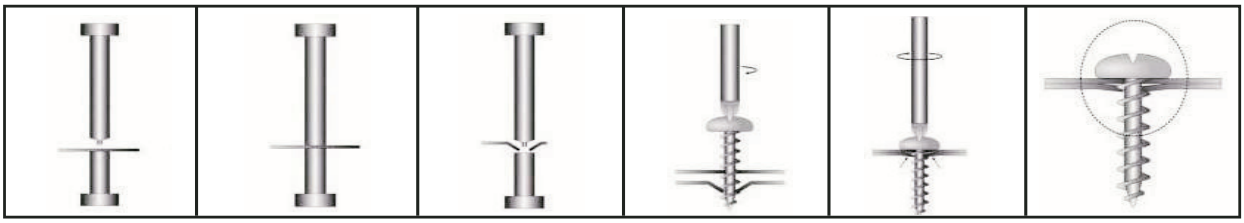
Kabartma Zımbası



Vida Çap
Diş Boyutu
B3.5
B3.9
B4.2
B4.8
B5.5
B6.3

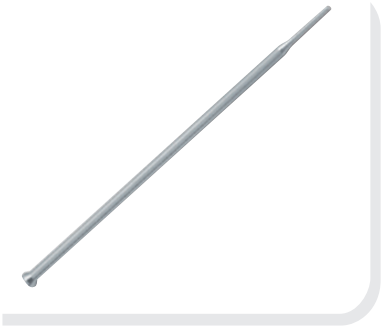
Sac Kalınlığı (S)
Vida 3.5mm : Max. 0.50 mm Kalınlık
Vida 3.9mm : Max. 0.63 mm Kalınlık
Vida 4.2mm : Max. 0.75 mm Kalınlık
Vida 4.8mm : Max. 0.88 mm Kalınlık
Vida 5.5mm : Max. 1.00 mm Kalınlık
Vida 6.3mm : Max. 1.20 mm Kalınlık

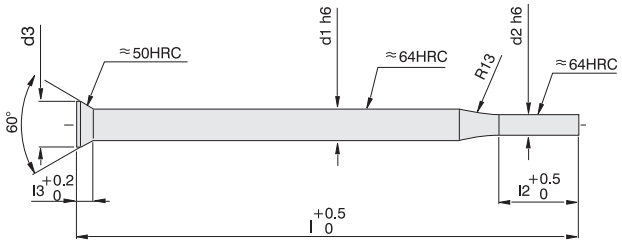
Sipariş Kodu	Ø Vida	A H7	B Ø-mm	C h6	D k6	E Ø-h7	F Ø-H7	H Ø-h6	J k6	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 (boy)	S (sac)
M1841/35	B3.5	2.75	3.2	7.5	3.75	2.7	2.7	7.5	3.75	31.3	28	74.5	71.5	60	101.72	0.5
M1841/39	B3.9	3.05	3.4	7.5	3.75	3.0	3.0	7.5	3.75	31.3	28	74.5	71.5	60	101.85	0.63
M1841/42	B4.2	3.15	3.5	8.5	4.25	3.1	3.1	8.0	4.0	31.3	28	74.5	71.5	60	101.97	0.75
M1841/48	B4.8	3.85	4.2	9.0	4.50	3.8	3.8	8.0	4.0	31.3	28	74.5	71.5	60	102.10	0.88
M1841/55	B5.5	4.35	4.8	9.0	4.50	4.3	4.3	8.0	4.0	31.3	28	74.5	71.5	60	102.22	1.00
M1841/63	B6.3	4.85	5.3	10.5	5.25	4.8	4.8	10.0	5.0	31.3	28	74.5	71.5	60	102.42	1.20



M1842 Havşa Başlı Kademeli HSS Zımba

Mat.: 1.3343 (HSS) ≈ DIN 9861 Form C





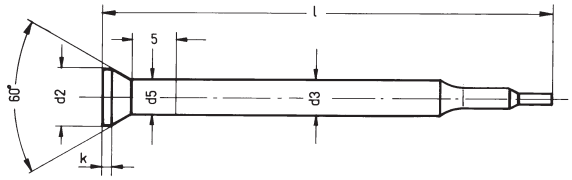
Sipariş Kodu	d3	l3	d2	l2	d1	l
M1842/05x71	3	1,37	0.5	7	2	71
M1842/05x80						80
M1842/06x71			0.6			71
M1842/06x80						80
M1842/07x71			0.7			71
M1842/07x80						80
M1842/08x71			0.8			71
M1842/08x80						80
M1842/09x71			0.9			71
M1842/09x80						80
M1842/1x71			1			71
M1842/1x80						80
M1842/1.1x71			1.1			71
M1842/1.1x80						80
M1842/1.2x71			1. 2			71
M1842/1.2x80						80
M1842/1.3x71			1.3			71
M1842/1.3x80						80
M1842/1.4x71			1.4			71
M1842/1.4x80						80
M1842/1.5x71			1.5			71
M1842/1.5x80						80
M1842/1.6x71	4.5	1.8	1.6		3	71
M1842/1.6x80						80
M1842/1.7x71			1.7			71
M1842/1.7x80						80
M1842/1.8x71			1.8			71
M1842/1.8x80						80
M1842/1.9x71			1.9			71
M1842/1.9x80						80
M1842/2x71			2			71
M1842/2x80						80
M1842/2.1x71			2.1			71
M1842/2.1x80						80

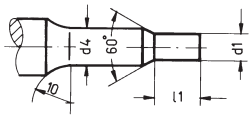
Sipariş Kodu	d3	l3	d2	l2	d1	l
M1842/2.2x71	4.5	1.8	2.2	7	3	71
M1842/2.2x80						80
M1842/2.3x71			2.3			71
M1842/2.3x80						80
M1842/2.4x71			2.4			71
M1842/2.4x80						80
M1842/2.5x71			2.5			71
M1842/2.5x80						80
M1842/2.6x71			2.6			71
M1842/2.6x80						80
M1842/2.7x71			2.7			71
M1842/2.7x80						80
M1842/2.8x71			2.8			71
M1842/2.8x80						80
M1842/2.9x71			2.9			71
M1842/2.9x80						80
M1842/3x71	5.5		3	8	4	71
M1842/3x80						80
M1842/3.1x71			3.1			71
M1842/3.1x80						80
M1842/3.2x71			3.2			71
M1842/3.2x80						80
M1842/3.3x71			3.3			71
M1842/3.3x80						80
M1842/3.4x71			3.4			71
M1842/3.4x80						80
M1842/3.5x71			3.5			71
M1842/3.5x80						80

Talep üzerine özel ölçüler üretilir.

M1843 Havşa Başlı Çift Kademeli HSS Zımba







Malzeme : HSS Yüksek hız çeliği
Sertlik : 64 ± 2 HRC Şapka 45 ± 5 HRC

Sac parça üzerindeki diş çekilecek deliklerin delme ve sıvama işlemini birlikte yapan iki kademeli patlatma zımbası

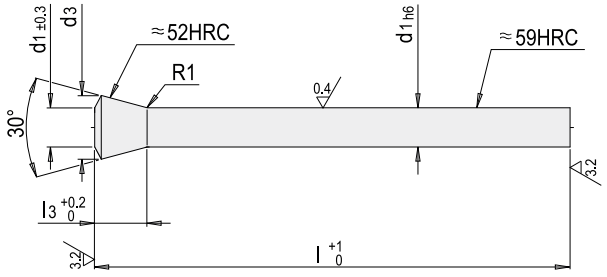
Sipariş Örneği M1843xd1xl1

Diş Ölçüsü	d1+0,02	d2	d3	d4+0,01	d5	k	l+0,5		l1
M2	**1,1**	4,5	3,0	1,65	d_3+0,03	0,5	**72**	Diğer boylar istek üzerine	1,5
M2,5	**1,5**			2,1					2,0
M3	**1,8**			2,55					2,5
M4	**2,3**	5,5	4,0	3,35			**82**		3,0
M5	**3,0**	6,5	5,0	4,25					
M6	**3,6**	8,0	6,0	5,1					
M8	**4,9**	10,0	8,0	6,85	d_3+0,04	1,0			4,0

M1844 Konik Başlı 30° HSS Zımba

Mat.: 1.3343 (HSS) Form D



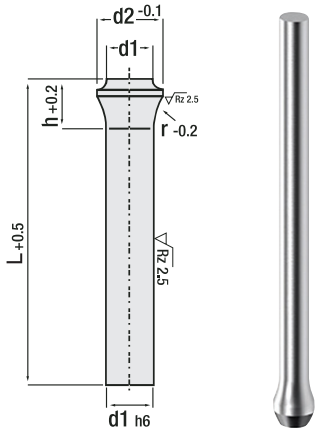


Sipariş Kodu	d3	l3	d1	l
M1844/5x120	8.55	7.5	5	120
M1844/5,5x120	8.98		5.5	
M1844/6x120	9.75	8	6	
M1844/8x100	12.8	10	8	100
M1844/8x120				120
M1844/10x120	15.9	12	10	
M1844/12x100	18.7	14	12	100
M1844/12x120				120

M1845 Şişe - Boyunlu Zımba

(DIN5118 Form A)

Malzeme : 1.3343 (HSS)
Sertlik : 62 - 66 HRC
Kafa Sertliği : 45 - 55 HRC



Sipariş Örneği M1845/d1xl1

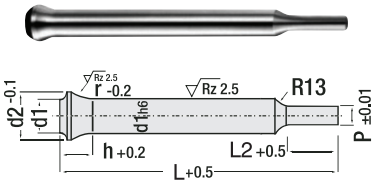
d1	L	d2	h	r
2.0	80	3	4.80	3.5
	100			
2.1	100	3.2	5.28	5
2.2	100	3.2	5.18	5
2.3	100	3.5	5.37	5
2.4	100	3.5	5.28	5
2.5	80	3.5	5.18	5
	100			
2.6	100	4	5.93	6.5
2.7	100	4	5.83	6.5
2.8	100	4	5.73	6.5
2.9	100	4	5.62	6.5
3.0	80	4.5	6.03	6.5
	100			
3.1	100	4.5	5.93	6.5
3.2	100	4.5	5.83	6.5
3.3	100	4.5	5.73	6.5
3.4	100	4.5	5.62	6.5
3.5	80	5	6.38	8
	100			
3.6	100	5	6.27	8
3.7	100	5	6.16	8
3.8	100	5	6.04	8
3.9	100	5	5.92	8
4.0	80	5.5	7.38	8
	100			
4.1	100	5.5	7.27	8
4.2	100	5.5	7.16	8
4.3	100	5.5	7.04	8

d1	L	d2	h	r
4.4	100	5.5	6.92	8
4.5	80	6	7.38	8
	100			
4.6	100	6	7.27	8
4.7	100	6	7.16	8
4.8	100	6	7.04	8
4.9	100	6	6.92	8
5.0	80	7	8.36	10
	100			
5.1	100	7	8.25	10
5.2	100	7	8.15	10
5.3	100	7	8.03	10
5.4	100	7	7.92	10
5.5	80	8	8.84	10
	100			
5.6	100	8	8.75	10
5.7	100	8	8.66	10
5.8	100	8	8.56	10
5.9	100	8	8.46	10
6.0	80	9	9.27	10
	100			
6.1	100	9	9.19	10
6.2	100	9	9.10	10
6.3	100	9	9.02	10
6.4	100	9	8.93	10
6.5	100	10	10.24	12
7.0	100	10	9.81	12
7.5	100	11	10.24	12
8.0	80	11	9.81	12
	100			
8.5	100	13	11.90	15
9.0	100	13	11.48	15
9.5	100	14	11.90	15
10.0	100	14	11.48	15
10.5	100	15	11.90	15
11.0	100	15	11.48	15
11.5	100	16	11.90	15
12.0	100	16	11.48	15
12.5	100	17	11.90	15
13.0	100	17	11.48	15
13.5	100	18	11.90	15
14.0	100	18	11.48	15
15.0	100	19	11.48	15
16.0	100	20	11.48	15
17.0	100	21	11.48	15
18.0	100	22	11.48	15
19.0	100	23	11.48	15
20.0	100	25	12.29	15

M1846 Şişe - Boyunlu Kademeli Zımba

(DIN5118 Form A)

Malzeme : 1.3343 (HSS)
Sertlik : 62 - 66 HRC
Kafa Sertliği : 45 - 55 HRC



Sipariş Örneği M1846/d1xl1

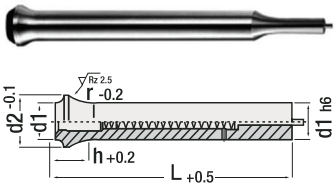
P	L	d1	L2	d2	r	h
0.8 ~ 2.9	71	3	10	4.5	6.5	6.03
1.0 ~ 3.9		4		5.5	8	7.38
1.2 ~ 4.9		5		7.0	10	8.36
1.6 ~ 5.9		6		9.0	10	9.27
2.5 ~ 7.9	80	8	13	11	12	9.81
4.0 ~ 9.9	100	10	17	14	15	11.48
5.0 ~ 12.9		13	17	17	15	11.48
8.0 ~ 15.9		16	17	20	15	11.48
12 ~ 19.9		20	17	25	15	12.29

Not: Talebe göre özel üretim yapılmaktadır.

M1847 Şişe-Boyunlu İticili Zımba

(DIN5118 Form A)

Malzeme : 1.3343 (HSS)
Sertlik : 62 - 66 HRC
Kafa Sertliği : 45 - 55 HRC



Sipariş Örneği M1847/d1xl1

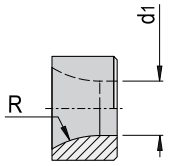
d1	L	d2	h	r
5.0	80	7	8.36	10
	100			
6.0	80	9	9.27	10
	100			
7.0	80	10	9.81	12
	100			
8.0	80	11	9.81	12
	100			
9.0	100	13	11.48	15

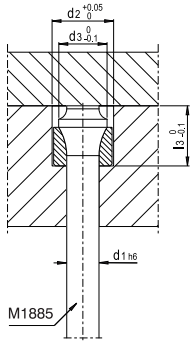
d1	L	d2	h	r
10.0	100	14	11.48	15
11.0	100	15	11.48	15
12.0	100	16	11.48	15
13.0	100	17	11.48	15
15.0	100	19	11.48	15
16.0	100	20	11.48	15
20.0	100	25	12.29	15
25.0	100	31	13.00	15

M1848 Şişe Boyunlu Zımba Montaj Burcu

Mat.: 1.2312 ≈ 1080 N/mm²





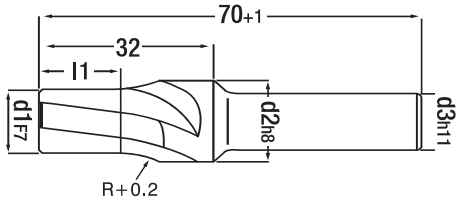


Sipariş Kodu	d1	l3	d3	d2	R
M1848/3	3	7	4.5	6	6.5
M1848/4	4	8	5.5	7	8
M1848/5	5	11	7	9	10
M1848/5,5	5,5		8	10	
M1848/6	6		9	11	
M1848/6,5	6,5		10	12	12
M1848/7	7				
M1848/7,5	7,5		11	13	
M1848/8	8	12			
M1848/8,5	8,5		13	15	15
M1848/9	9				
M1848/10	10	13	14	16	
M1848/12	12		16	18	
M1848/14	14		18	20	
M1848/16	16		20	22	

M1849 Konik Başlı Zımba Yeri Frezesi

Mat.:HSS ve Karbür



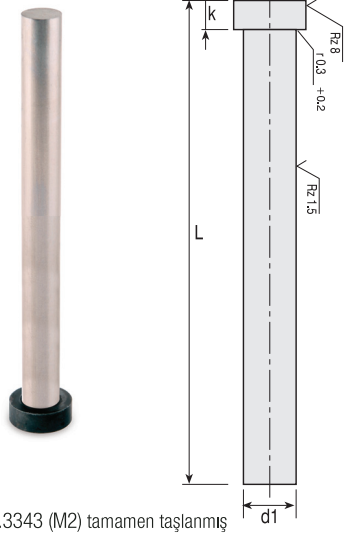


Sipariş Kodu	d1	d2	d3	l1	R
M1849/2	2	3.3	3.3	5	3.5
M1849/2.5	2.5	3.8	3.8	5	5
M1849/3	3	4.9	4.9	7	6.5
M1849/3.5	3.5	5.4	5.4	7	8
M1849/4	4	5.9	5.9	8	8
M1849/4.5	4.5	6.4	6.4	8	8
M1849/5	5	7.4	7.4	10	10
M1849/5.5	5.5	8.5	8.5	10	10
M1849/6	6	9.5	9.5	10	10
M1849/6.5	6.5	10.5	10.5	12	12
M1849/7	7	10.5	10.5	12	12
M1849/7.5	7.5	11.5	11.5	12	12

Sipariş Kodu	d1	d2	d3	l1	R
M1849/8	8	11.5	11.5	12	12
M1849/8.5	8.5	13.5	13	12	15
M1849/9	9	13.5	13	12	15
M1849/9.5	9.5	14.5	13	12	15
M1849/10	10	14.5	13	12	15
M1849/10.5	10.5	15.5	13	15	15
M1849/11	11	15.5	13	15	15
M1849/12	12	16.5	13	15	15
M1849/13	13	17.5	13	15	15
M1849/14	14	18.5	13	15	15
M1849/15	15	19.5	13	15	15

M1850 Silindir Başlı Zımba

(DIN5118 Form A)



Malzeme: 1.3343 (M2) tamamen taşlanmış
Isıl İşlemli: 62 - 64 HRC
Kafa Sertliği: 52 ± 3 HRC
Yüzey: ≥ 950 HV 0.3

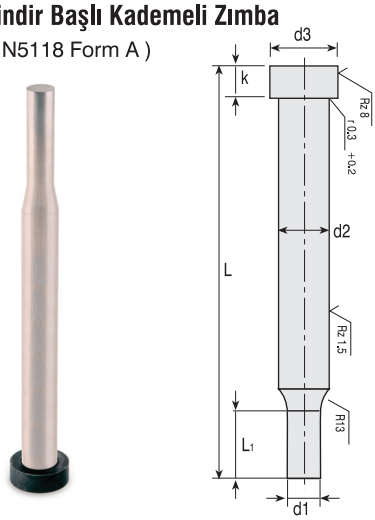
Sipariş Örneği M1850/d1 x L

d1	L	d2	k	r
2.0	71	5.0	3	0.2
2.5	80			
	100			
3.0	71	6.0	3	
3.5	80			
	100			
4.0	71	7.0	5	0.3
4.5	80	7.5		
	100			
5	71	8.0	5	
	80			
	100			
6.0	71	9.0	5	
	80			
	100			
	125			
8.0	71	11	5	
	80			
	100			
	125			

d1	L	d2	k	r
10	71	13	5	0.3
	80			
	100			
	125			
13	71	16	5	
	80			
	100			
	125			
16	71	19	5	
	80			
	100			
	125			
20	80	23	5	
	100			
	125			
	160			
25	80	28	5	
	100			
	125			
	160			
32	80	35	5	
	100			
	125			
	160			

M1851 Silindir Başlı Kademeli Zımba

(DIN5118 Form A)

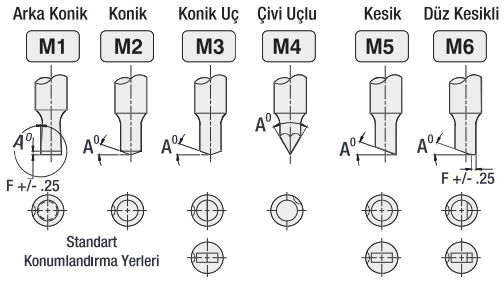


Sipariş Örneği M1851/Form Kodu/d3xd1xL1xL

Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

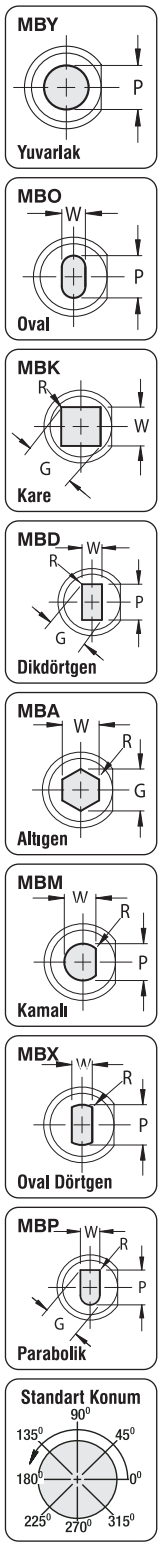
d3	Kafa d2	d1 / Form (MBY) Yuvarlak P	d1 / Form Diğer Formlar W G/P	Standart L	Alternatif L1 Min.	Alternatif L1 Max.	L mm
04	6	1.6 ~ 3.99	1.6 - 4.0	8	10	-	50 63 71 80 90 100 125
05	8	1.6 ~ 4.99	1.6 - 5.0	13	10	-	
06	9	1.6 ~ 5.99	1.6 - 6.0	13	10	-	
08	11	2.5 ~ 7.99	2.5 - 8.0	19	13	-	
10	13	3.2 ~ 9.99	3.2 - 10	19	13	25	
13	16	5.0 ~ 12.99	4.5 - 13	19	13	25	
16	19	8.0 ~ 15.99	6.0 - 16	19	13	25	
20	23	10 ~ 19.99	8.0 - 20	19	13	25	63 71 80 90 100 125
25	28	12 ~ 24.99	9.0 - 25	19	13	25	
32	35	16 ~ 31.99	10 - 32	25	19	30	
40	43	30 ~ 39.99	14 - 40	25	19	30	

Kesme Açıları (Özel Takımlar): Talep halinde, A açısı ve F ölçüsü sipariş esnasında kullanıcı tarafından belirtilmelidir.



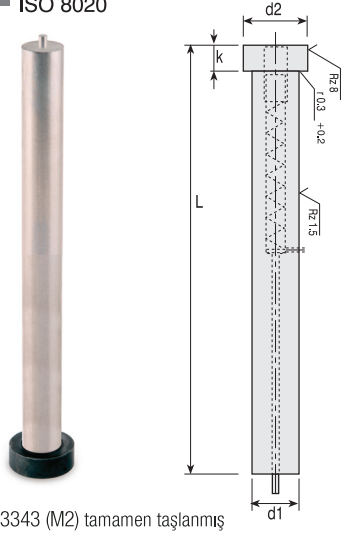
Not: Kalıp üst yüzeyinden parçaların kalıptaki konumuna bakılarak parçalar görüntülenir. Zımbaların konumu gövde boyunca izlenerek belirlenir. Matrisler üst yüzeyden izlenerek konumu belirlenir.
Standart Kilitleme yeri 0° dir.
Alternatif olarak 90°, 180° ya da 270° istenilebir.

Formlar



M1852 Silindir Başlı İticili Zımba

ISO 8020



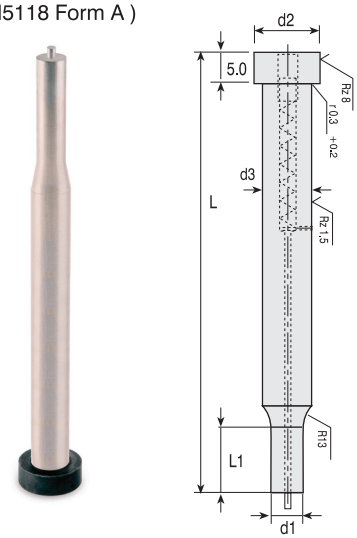
Malzeme: 1.3343 (M2) tamamen taşlanmış
Isıl İşlemli: 62 - 64 HRC
Kafa Sertliği: 52 ± 3 HRC
Yüzey: ≥ 950 HV 0.3

Sipariş Örneği M1852/d1xL

d1	L	d2	k	r
5.0	63 71 80 100 125 160	8	5 mm	0.3
6.0		9		
8.0		11		
10		13		
13		16		
16		19		
20		23		
25		28		
32		35		

M1853 Silindir Başlı Kademeli İticili Zımba

(DIN5118 Form A)

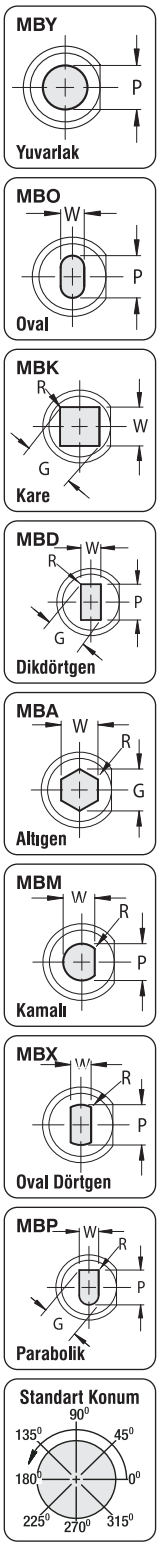


Sipariş Örneği M1853/Form Kodu/d3xd1xL1xL

Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

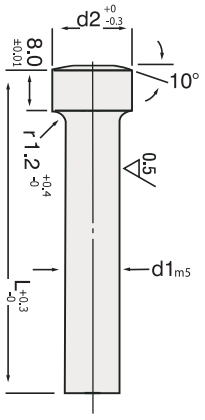
d3	Kafa d2	d1 / Form (MBY) Yuvarlak P	d1 / Form Diğer Formlar W G/P	Standart L	Alternatif L1 Min.	Alternatif L1 Max.	L mm
05	8	1.6 ~ 4.99	1.6 - 5.0	13	10	-	
06	9	2.5 ~ 5.99	2.5 - 6.0	13	10	-	63
08	11	3.2 ~ 7.99	3.2 - 8.0	19	13	19	71
10	13	4.5 ~ 9.99	4.5 - 10	19	13	25	80
13	16	6.0 ~ 12.99	6.0 - 13	19	13	25	90
16	19	8.0 ~ 15.99	7.5 - 16	19	13	25	100
20	23	10 ~ 19.99	8.0 - 20	19	13	25	125
25	28	12 ~ 24.99	9.0 - 25	19	13	25	
32	35	16 ~ 31.99	10 - 32	25	19	30	

Formlar



M1854 Kalın Başlı Zımba - Ağır İş





d1	L	d2
6		11
8		13
10	70	15
12	80	17
13	100	18
16		21
20		25
25		30

Sipariş Örneği M1854/d1xL

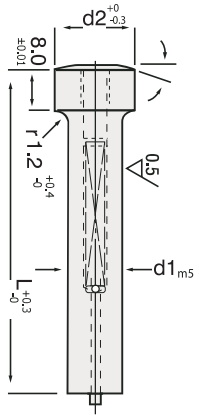
Malzeme :
1.3343(M2) Taşlanmış

Isıl İşlemli :
60 - 63 HRC

Kafa Sertliği :
40 - 55 HRC

M1855 Kalın Başlı İticili Zımba - Ağır İş





d1	L	d2
8		13
10		15
12	70	17
13	80	18
16	100	21
20		25
25		30

Sipariş Örneği M1855/d1xL

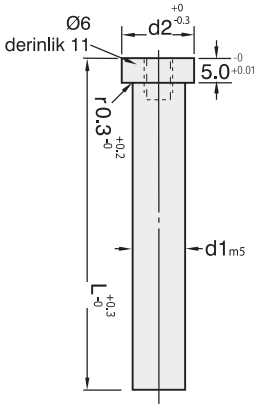
Malzeme :
1.3343(M2) Taşlanmış

Isıl İşlemli :
60 - 63 HRC

Kafa Sertliği :
40 - 55 HRC

M1856 Merkezleme Pimli Düz Zımba





d1	L	d2
10		13
13	71	16
16	80	19
20	90	23
25	100	28
32		35

Sipariş Örneği M1856/d1xL

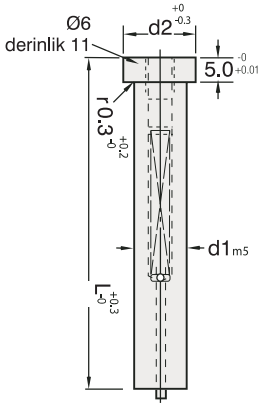
Malzeme :
1.3343(M2) Taşlanmış

Isıl İşlemli :
60 - 63 HRC

Kafa Sertliği :
40 - 55 HRC

M1857 Merkezleme Pimli İticili Zımba





d1	L	d2
10		13
13	71	16
16	80	19
20	90	23
25	100	28
32		35

Sipariş Örneği M1857/d1xL

Malzeme :
1.3343(M2) Taşlanmış

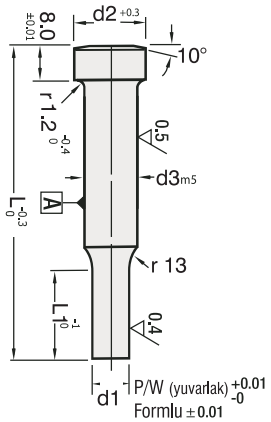
Isıl İşlemli :
60 - 63 HRC

Kafa Sertliği :
40 - 55 HRC

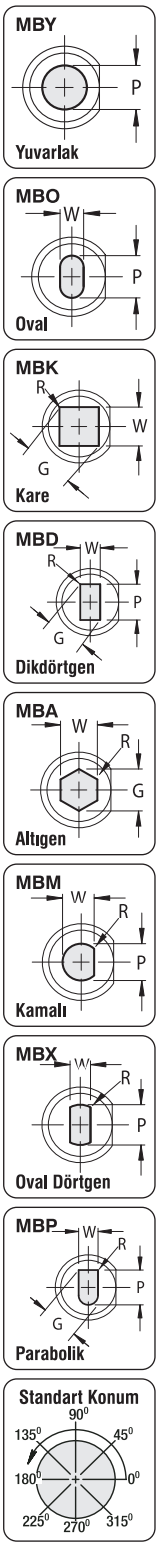
M1858 Kalın Başlı Zımba - Formlu



AĞIR İŞ



Formlar



Sipariş Örneği M1858/Form Kodu/d3xL1xL

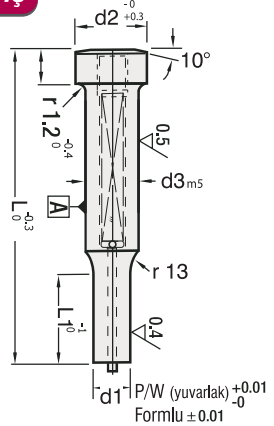
Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

d3	Kafa d2	d1 / Form (MBY) Yuvarlak P	d1 / Form Diğer Formlar W G/P	Standart L	Alternatif L1 Min.	Alternatif L1 Max.	L mm
08	13	4.0 ~ 7.99	3.0 - 8	13	13	25	60
10	15	5.0 ~ 9.99	3.0 - 10	13	13	25	70
13	18	6.0 ~12.99	3.0 - 13	13	13	25	80
16	21	10 ~15.99	4.0 - 16	19	13	25	90
20	25	13 ~19.99	5.0 - 20	19	13	25	100
25	30	18 ~24.99	6.0 - 25	19	13	25	

M1859 Kalın Başlı İticili Zımba - Formlu



AĞIR İŞ



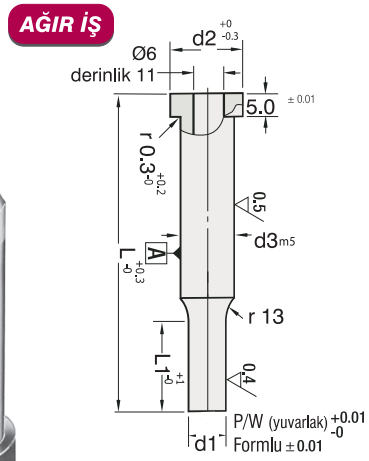
Sipariş Örneği M1859/Form Kodu/d3xL1xL

Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

d3	Kafa d2	d1 / Form (MBY) Yuvarlak P	d1 / Form Diğer Formlar W G/P	Standart L	Alternatif L1 Min.	Alternatif L1 Max.	L mm
08	13	4.0 ~ 7.99	4.0 - 8	13	13	25	60
10	15	5.0 ~ 9.99	5.0 - 10	13	13	25	70
13	18	6.0 ~12.99	6.0 - 13	13	13	25	80
16	21	10 ~15.99	6.0 - 16	19	13	25	90
20	25	13 ~19.99	6.0 - 20	19	13	25	100
25	30	18 ~24.99	6.0 - 25	19	13	25	

M1860 Merkezleme Pimli Zımba - Formlu



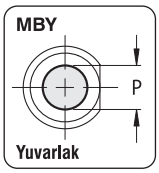


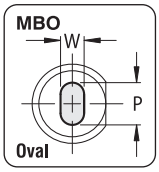
Sipariş Örneği M1860/Form Kodu/d3xL1xL

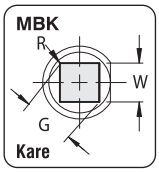
Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

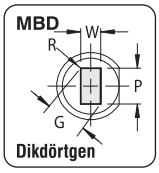
d3	Kafa d2	d1 / Form (SBY) Yuvarlak P	d1 / Form Diğer Formlar W G/P	Standart L1	Alternatif L1 Min.	Alternatif L1 Max.	L mm
10	13	4.5 ~ 9.99	4.5 - 10	19	13	25	63
13	16	6.0 ~ 12.99	6.0 - 13	19	13	25	71
16	19	8.0 ~ 15.99	7.2 - 16	19	13	25	80
20	23	10 ~ 19.99	8.0 - 20	19	13	25	90
25	28	12 ~ 24.99	9.0 - 25	19	13	25	100
32	35	16 ~ 31.99	6.0 - 32	25	13	25	

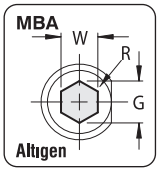
Formlar

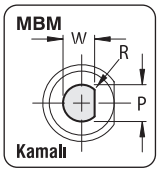


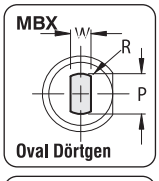


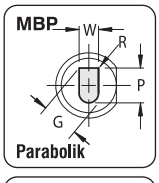


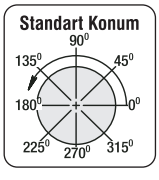






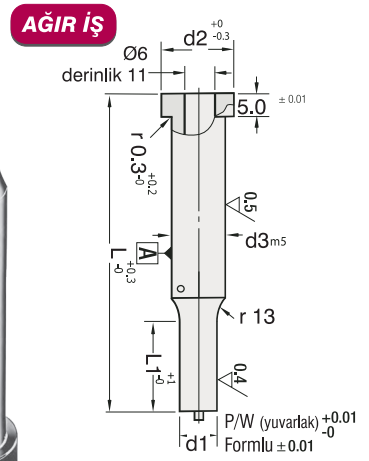






M1861 Merkezleme Pimli İticili Zımba - Formlu





Sipariş Örneği M1861/Form Kodu/d3xL1xL

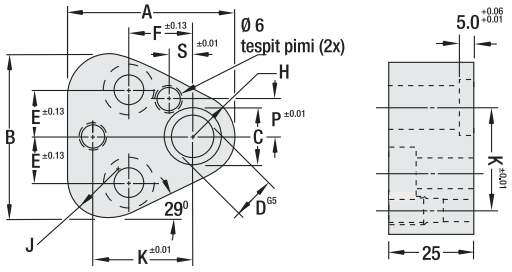
Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

d3	Kafa d2	d1 / Form (MBY) Yuvarlak P	d1 / Form Diğer Formlar W G/P	Standart L	Alternatif L1 Min.	Alternatif L1 Max.	L mm
10	13	4.5 ~ 9.99	4.5 - 10	19	13	25	63
13	16	6.0 ~ 12.99	6.0 - 13	19	13	25	71
16	19	8.0 ~ 15.99	7.2 - 16	19	13	25	80
20	23	10 ~ 19.99	8.0 - 20	19	13	25	90
25	28	12 ~ 24.99	9.0 - 25	19	13	25	100
32	35	16 ~ 31.99	6.0 - 32	25	13	25	

M1862 Zımba Tutucu

ISO 8020 / Silindir Başlı Zımbalar



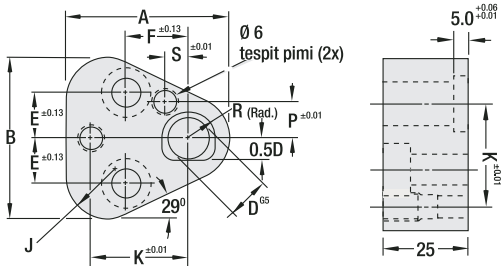


Sipariş	M1862. 10	M1862. 13	M1862. 16	M1862. 20	M1862. 25	M1862. 32
D (zımba)	10	13	16	20	25	25
A	44.5	50.8	54.0	60.3	69.9	69.9
B	43.7	50.0	53.2	59.5	69.1	69.1
C	14.0	17.0	20.0	24.0	29.0	29.0
E	11.1	14.3	15.9	17.5	19.8	19.8
F	19.0	19.0	19.0	19.0	23.8	23.8
H	9.5	12.7	14.3	17.5	22.2	22.2
J	12.0	15.2	16.8	20.0	24.7	24.7
K	26.925	29.970	31.750	33.530	40.640	40.640
P	9.0	12.0	13.5	16.5	22.0	22.0
S	7.5	6.5	6.0	5.0	7.0	7.0
Cıvata	**M8**	**M8**	**M8**	**M10**	**M12**	**M12**

M1863 Zımba Tutucu

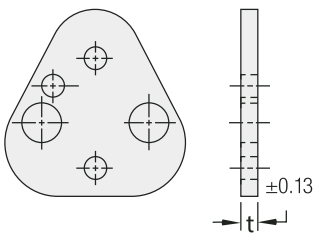
ISO 8020 / Kilitleme Yeri Oluşturulmuş Zımbalar





Sipariş	M1863. 10	M1863. 13	M1863. 16	M1863. 20	M1863. 25	M1863. 32
D (zımba)	10	13	16	20	25	25
A	44.5	50.8	54.0	60.3	69.9	69.9
B	43.7	50.0	53.2	59.5	69.1	69.1
C	14.0	17.0	20.0	24.0	29.0	29.0
E	11.1	14.3	15.9	17.5	19.8	19.8
F	19.0	19.0	19.0	19.0	23.8	23.8
H	9.5	12.7	14.3	17.5	22.2	22.2
J	12.0	15.2	16.8	20.0	24.7	24.7
K	26.925	29.970	31.750	33.530	40.640	40.640
P	9.0	12.0	13.5	16.5	22.0	22.0
S	7.5	6.5	6.0	5.0	7.0	7.0
Cıvata	**M8**	**M8**	**M8**	**M10**	**M12**	**M12**

M1864 Zımba Tutucu Altlık Plakaları



t = 1.8 (Yumuşak)

Sipariş Kodu	Uygun Tutucular	D	t
M1864/1018	M1862 / M1863	10	1.8
M1864/1318	M1862 / M1863	13	1.8
M1864/1618	M1862 / M1863	16	1.8
M1864/2018	M1862 / M1863	20	1.8
M1864/2518	M1862 / M1863	25	1.8
M1864/3218	M1862 / M1863	32	1.8

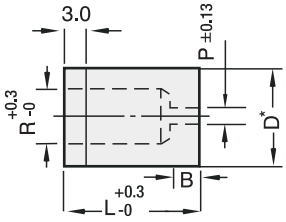
t = 14.8 (55 HRC)

Sipariş Kodu	Uygun Tutucular	D	t
M1864-2/1048	M1862 / M1863	10	4.8
M1864-2/1348	M1862 / M1863	13	4.8
M1864-2/1648	M1862 / M1863	16	4.8
M1864-2/2048	M1862 / M1863	20	4.8
M1864-2/2548	M1862 / M1863	25	4.8
M1864-2/3248	M1862 / M1863	32	4.8

M1865 Ön Delikli Düz Matris



Malzeme : 1.3343 (M2) **Sertlik** : 62 - 62 HRC



Tel erezyon bağlangıç deliği açılmıştır.

* = n5 (Ø8.0 ~ 30.0) / j6 (Ø32.0 ~ 40.0)

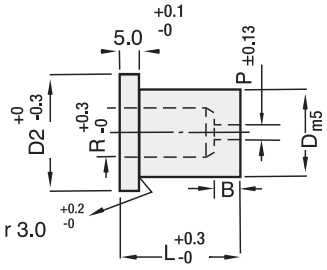
Sipariş Örneği M1865/DxLxB

D mm	P mm	B (Kesme Boyu) S(Standart)	B (Kesme Boyu) A(Opsiyonel)	R mm	L mm
8.0	0.8	-	-	-	
10.0	0.8	4	8	6.0	20
13.0	1.6	5	8	8.0	22
16.0	1.6	5	8	9.5	25
20.0	1.6	5	12	12.0	28
22.0	1.6	6	12	15.0	30
25.0	1.6	6	12	17.5	32
28.0	1.6	6	12	17.5	35
30.0	1.6	6	12	17.5	40
32.0	1.6	6	12	21.0	60
35.0	1.6	6	12	21.0	Talebe göre seçim
38.0	1.6	8	12	27.0	
40.0	1.6	8	12	27.0	
45.0	3.2	8	12	36.0	
50.0	3.2	8	12	41.0	

M1865S Ön Delikli Şapkalı Matris



Malzeme : 1.3343 (M2) **Sertlik** : 62 - 62 HRC



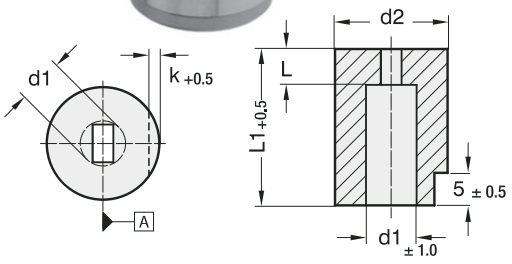
Tel erezyon bağlangıç deliği açılmıştır.

Sipariş Örneği M1865S/DxLxB

D mm	D2 mm	P mm	B (Kesme Boyu) S(Standart)	B (Kesme Boyu) A(Opsiyonel)	R mm	L mm
8.0	11	0.8	-	-	-	
10.0	13	0.8	4	8	6.0	20
13.0	16	1.6	5	8	8.0	22
16.0	19	1.6	5	8	9.5	25
20.0	23	1.6	5	12	12.0	28
22.0	25	1.6	6	12	15.0	30
25.0	28	1.6	6	12	17.5	32
28.0	31	1.6	6	12	17.5	35
30.0	33	1.6	6	12	17.5	40
32.0	35	1.6	6	12	21.0	Talebe göre seçim
35.0	38	1.6	6	12	21.0	
38.0	41	1.6	8	12	27.0	
40.0	43	1.6	8	12	27.0	

M1866 Düz Matris Formlu
ISO 8977





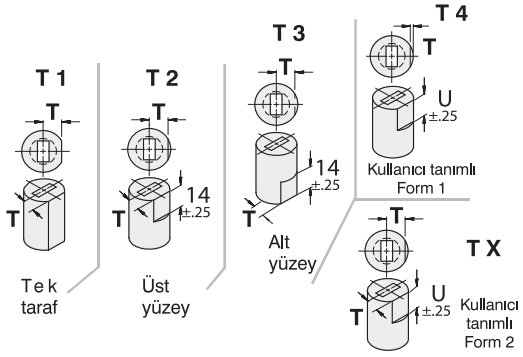
Özellikler : Çap d1,d2 ve giriş radyüsü taşlanmış.
Malzeme : 1.3343 (M2) **Sertlik** : 60 - 62 HRC
*** d1**: Köşeler üzerinde "boyut kilitleme" (T ölçüsü) isteğe göre belirtilmelidir.

Sipariş Örneği M1866/Form Kodu/ d1xd2xLxL1

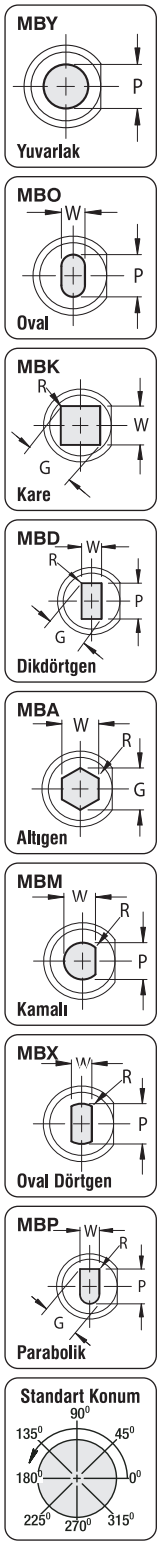
Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

d1=form	d2	k	L	L1
1.8 ~ 3.2	8	1	3	20
2 ~ 5	10	1	3	22
3 ~ 7	13	1.5	3	25
5 ~ 8	16	1.5	5	28
7 ~ 11	20	1.5	5	30
11 ~ 16	25	2.5	5	32
16 ~ 19	32	2.5	7	35
19 ~ 28	40	2.5	7	40

Kilitlemeli Matrisler için Konumlandırma ;

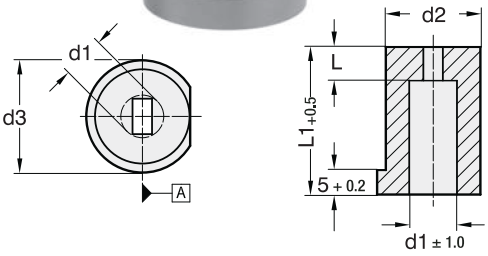


Formlar



M1866S Şapkalı Matris Formlu
ISO 8977





Özellikler : Çap d1,d2 ve giriş radyüsü taşlanmış.
Malzeme : 1.3343 (M2) **Sertlik** : 60 - 62 HRC
*** d1**: Köşeler üzerinde "boyut kilitleme" (T ölçüsü) isteğe göre belirtilmelidir.

Sipariş Örneği M1866S/Form Kodu/ d1xd2xLxL1

Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

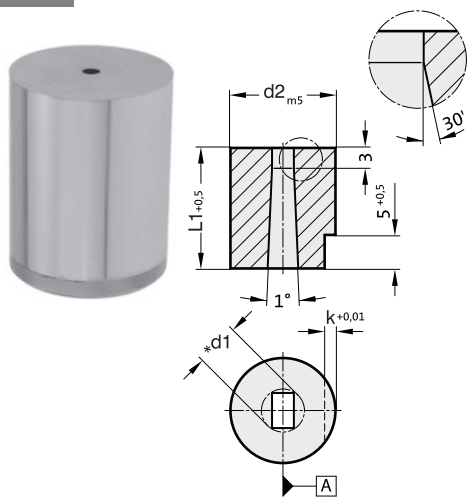
d1=form	d2	L	L1
1.8 ~ 3.2	8	3	20
2 ~ 5	10	3	22
3 ~ 7	13	3	25
5 ~ 8	16	5	28
7 ~ 11	20	5	30
11 ~ 16	25	5	32
16 ~ 19	32	7	35
19 ~ 28	40	7	40

Konumlandırma Hakkında Teknik Bilgi;

Kilitlemeli Matrisler : T1 - T2 - T3 için kullanılan T ölçüsü soldaki teknik resimde belirtilmiştir. TX ölçüsü kullanıcı tarafından belirtilmelidir. Sipariş esnasında T ve U yüzey ölçüsü belirtilmelidir.

Gövde Çapı	"T" +0.2	Gövde Çapı	"T" +0.2	Gövde Çapı	"T" +0.2
10	4.0	32	14	63	29.5
13	5.5	38	17	71	33.5
16	7.0	40	18	76	35.5
20	8.5	45	20.5	85	40
22	9.5	50	23	90	42.5
25	11	56	26	100	47.5

M1867 Konik Matris Düz



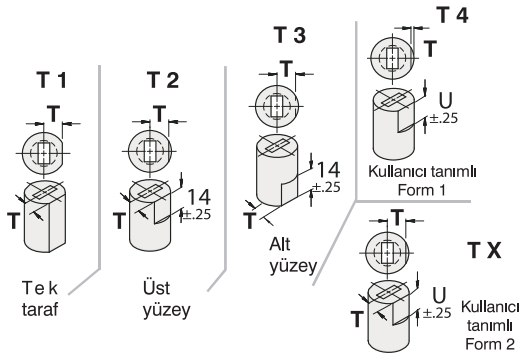
Özellikler : Çap d1,d2 ve giriş radyüsü taşlanmış.
Malzeme : 1.3343 (M2) **Sertlik** : 60 - 62 HRC
*** d1**: Köşeler üzerinde "boyut kilitleme" (T ölçüsü) isteğe göre belirtilmelidir.

Sipariş Örneği M1867/Form Kodu/ d1xd2xL1

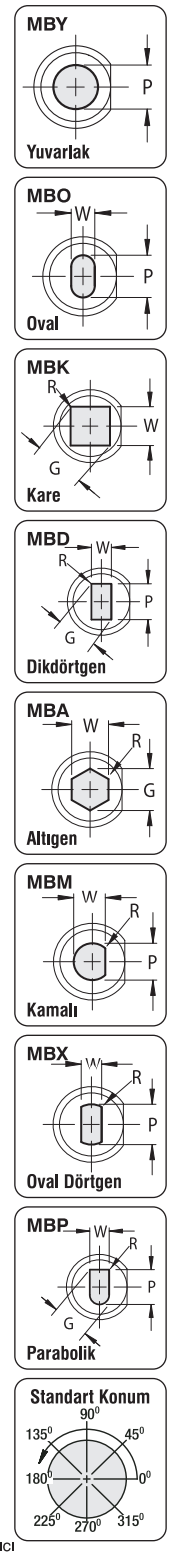
Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

d1=form	d2	k	L	L1
1.6 ~ 3.2	8	1	1	
2 ~ 5	10	1	1	16
3 ~ 7	13	1.5	1.5	19
5 ~ 8	16	1.5	1.5	22
7 ~ 11	20	1.5	1.5	25
11 ~ 16	25	2.5	2.5	28
16 ~ 19	32	2.5	2.5	32
19 ~ 28	40	2.5	2.5	

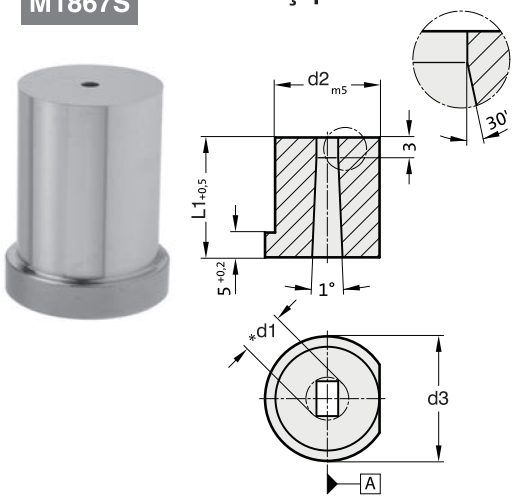
Kilitlemeli Matrisler için Konumlandırma ;



Formlar



M1867S Konik Matris Şapkalı



Özellikler : Çap d1,d2 ve giriş radyüsü taşlanmış.
Malzeme : 1.3343 (M2) **Sertlik** : 60 - 62 HRC
*** d1**: Köşeler üzerinde "boyut kilitleme" (T ölçüsü) isteğe göre belirtilmelidir.

Sipariş Örneği M1867S/Form Kodu/ d1xd2xd3xL1

Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

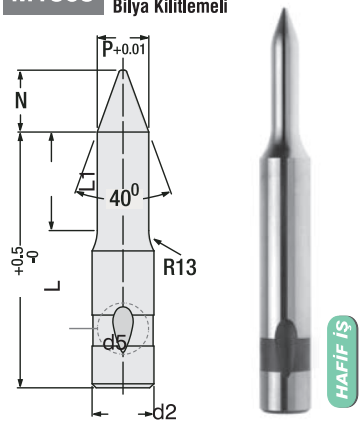
d1=form	d2	d3	k	L	L1
1.6 ~ 3.2	8	11	1	1	
2 ~ 5	10	13	1	1	16
3 ~ 7	13	16	1.5	1.5	19
5 ~ 8	16	19	1.5	1.5	22
7 ~ 11	20	23	1.5	1.5	25
11 ~ 16	25	28	2.5	2.5	28
16 ~ 19	32	35	2.5	2.5	32
19 ~ 28	40	43	2.5	2.5	

Konumlandırma Hakkında Teknik Bilgi;

Kilitlemeli Matrisler : T1 - T2 - T3 için kullanılan T ölçüsü soldaki teknik resimde belirtilmiştir. TX ölçüsü kullanıcı tarafından belirtilmelidir. Sipariş esnasında T ve U yüzey ölçüsü belirtilmelidir.

Gövde Çapı	"T" +0.2	Gövde Çapı	"T" +0.2	Gövde Çapı	"T" +0.2
10	4.0	32	14	63	29.5
13	5.5	38	17	71	33.5
16	7.0	40	18	76	35.5
20	8.5	45	20.5	85	40
22	9.5	50	23	90	42.5
25	11	56	26	100	47.5

M1868 Konik Pilot Pim
Bilya Kilitlemeli



"P" ölçüsü tabloda belirtilen referans "P" ölçülerinden düşük olursa "N"=1.2x"P" in. dur.

Standart Toleranslar

Yuvarlak / P^{+01}_{-00}	⌀	,01	P'den d2'ye

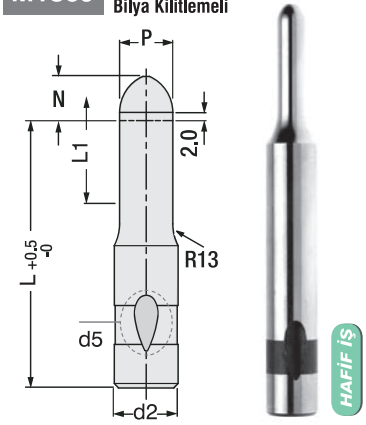
P'nin d2'ye eşit olduğu durumlarda gövde toleransı geçerlidir.

Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

Sipariş Örneği M1868/d2xPxL

d2	d5	P	L1	N	L
10	8 mm	5.9 ~ 9.9	19	8	71
13		9.9 ~ 12.9	19	10	80
16		12.9 ~ 15.9	25	15	100
20		15.9 ~ 19.9	25	20	71
25		19.9 ~ 24.9	25	25	80
32		24.9 ~ 31.9	25	30	100 / 125
38		31.9 ~ 37.9	30	35	140

M1869 Küresel Pilot Pim
Bilya Kilitlemeli



-"L" pilot pimin uc hariç uzunluğudur.
- 2 mm'lik uzunluk, zımba saca temas etmeden önce zımbaya kılavuzluk eder.

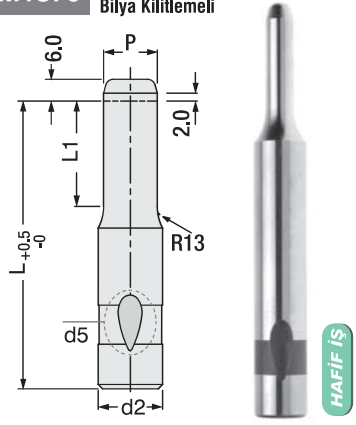
	P	N
10.1 mm	≤ 10 mm	8 mm
	- 15 mm	12 mm
	> 15 mm	15 mm

Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

Sipariş Örneği M1869/d2xPxL

d2	d5	P	L1	N	L
10	8 mm	2.9 ~ 5.9	19	8	71
13		5.9 ~ 9.9	19	10	80
16		9.9 ~ 12.9	25	15	100
20		12.9 ~ 15.9	25	20	71
25		15.9 ~ 19.9	25	25	80
32		19.9 ~ 24.9	25	30	100 / 125
38		24.9 ~ 31.9	30	35	140

M1870 Parabolik Pilot Pim
Bilya Kilitlemeli



Standart Toleranslar

Yuvarlak / P^{+01}_{-00}	⌀	,01	P'den d2'ye

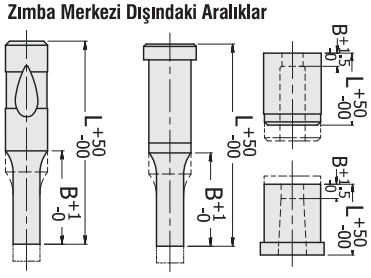
P'nin d2'ye eşit olduğu durumlarda gövde toleransı geçerlidir.

Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

Sipariş Örneği M1870/d2xPxL

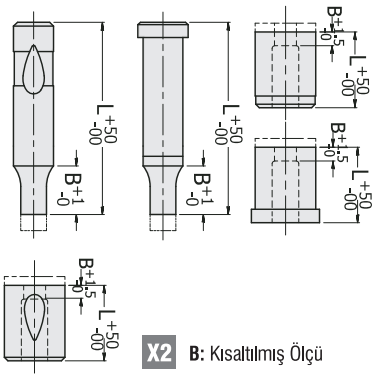
d2	d5	P	L1	L
6	6	2.2 ~ 6.0	13	63
10	8 mm	2.5 ~ 10	19	71
13		5.0 ~ 13	19	80
16		8.0 ~ 16	19	90
20		12~ 20	19	100
25		16 ~ 15	19	

Alternatif Seçim Bilgisi
Zımba Merkezi Dışındaki Aralıklar



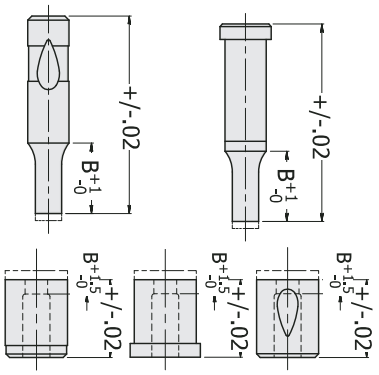
X1 **B:** Temel Ölçü

Toplam boyun kısaltılması;zımba ve natrisin toplam boyu kısalsa dahi "B" ölçüsü (L1) sabit kalacaktır. Bu durum, boydan boya düz delikli veya bilya kilitlemeleri matrislerde geçerli değildir.



X2 **B:** Kısaltılmış Ölçü

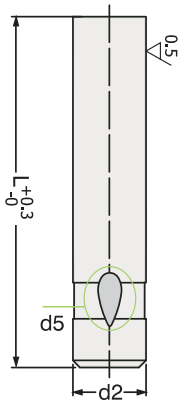
Zımba yada matrisin boyunun kısaltılması "B" ölçüsünün (kesme boyu) boyunu düşürür.



X3 Toplam boyda ± 02 hassasiyet sağlar.
Not: Maksimum 5 talaş

M1871 Bilya Kilitlemeli Zımba
ISO 10071





Gövde ve kesici ağız kısımlar taşlanmıştır. İsteğe göre kaplama uygulanabilir. Kaplama dış katmanlarda ısı ve sürtünmeye karşı direnç sağlar, sarma ve soğuk kaynak gibi sorunlara çare olur.

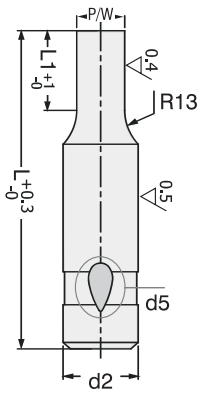
Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

Sipariş Örneği M1871/d2xL

d2	d5	L
Ø 6 mm	6 mm	63
		71
		80
		90
		100
		125
Ø 10 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 13 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 16 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 20 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 25 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 32 mm	8 mm	71
		80
		90
		100
		125
Ø 38 mm	8 mm	80
		90
		100
		125

M1872 Bilya Kilitlemeli Zımba - Formlu





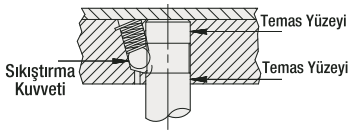
Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

-P'nin d2'ye eşit olduğu durumlarda gövde toleransı geçerlidir.
-Bilya yuvasının konumu standart 90°dir.

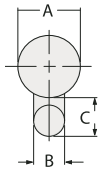
Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

Sipariş Örneği M1872/Form Kodu/d2xP/WxL

d2	Bilya Yuvası d5	Form (BHY) Yuvarlak P	Form Diğer Formlar W G/P	Standart L1	Alternatif L1 Min.	Alternatif L1 Max.	L mm
06	6	2.2 ~ 5.9	2.2 - 5.9	13	10	-	63
10	8 mm	2.5 ~ 9.9	2.5 - 9.9	19	10	19	71
13		5.0 ~ 12.9	4.5 - 12.9	19	13	25	80
16		8.0 ~ 15.9	6.0 - 15.9	19	13	25	90
20		12 ~ 19.9	8.0 - 19.9	19	13	25	100
25		16 ~ 24.9	10 - 24.9	19	13	25	125
32		24 ~ 31.9	12.5 - 31.9	25	25	30	80
38		30 ~ 37.9	14 - 37.9	25	25	30	90 100 125



Zımbanın Bilya Yuvası ile Tutucuya Bağlanması

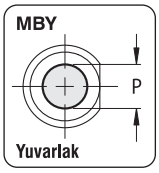


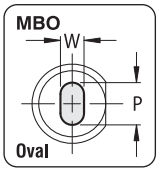
Hassas tutucular için "C" ölçüsüne 1.7 ekleyiniz.

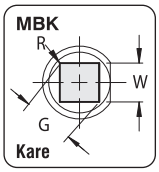
Bilya Kilitleme Yuva Yeri Gereksinimleri :

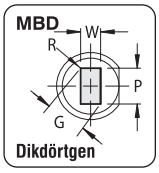
Zımba Çapı A	Bilya Çapı B	Boşluk C
6.0	6.0	10
10	8	11
13		
16		
20		
25		
32		
38		

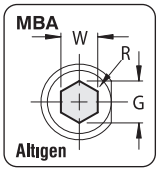
Formlar

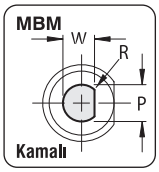


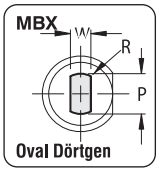


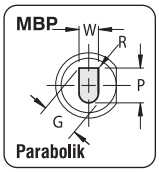


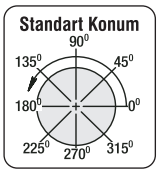




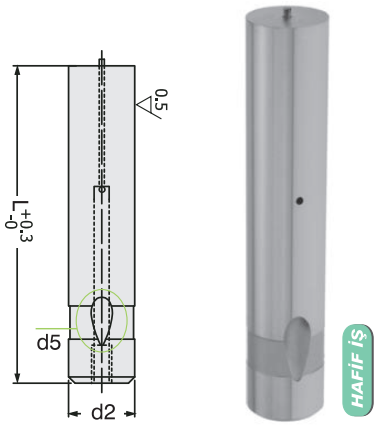








M1873 Bilya Kilitlemeli İticili Zımba
ISO 10071



Gövde ve kesici ağız kısımlar taşlanmıştır. İsteğe göre kaplama uygulanabilir. Kaplama dış katmanlarda ısı ve sürtünmeye karşı direnç sağlar, sarma ve soğuk kaynak gibi sorunlara çare olur.

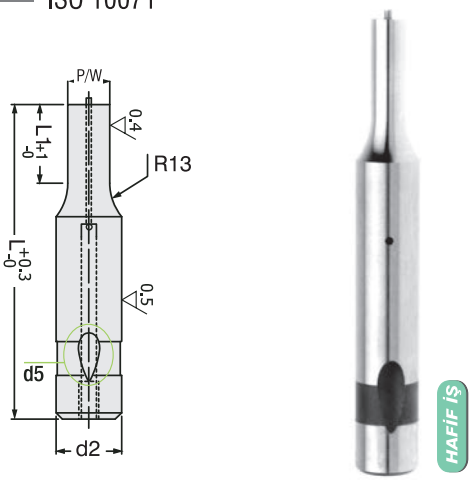
Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

Sipariş Örneği M1873/d2xL

d2	d5	L
Ø 6 mm	6 mm	63
		71
		80
		90
		100
		125
Ø 10 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 13 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 16 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 20 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 25 mm	8 mm	63
		71
		80
		90
		100
		125
Ø 32 mm	8 mm	71
		80
		90
		100
		125
Ø 38 mm	8 mm	80
		90
		100
		125

Not: Talebe göre özel üretim yapılır.

M1874 Bilya Kilitlemeli İticili Zımba
ISO 10071



Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

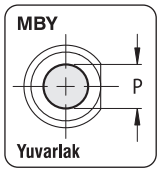
-P'nin d2'ye eşit olduğu durumlarda gövde toleransı geçerlidir.
-Bilya yuvasının konumu standart 90°dir.

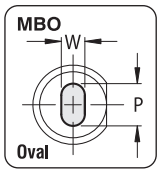
Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

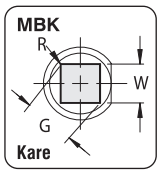
Sipariş Örneği M1874/Form Kodu/d2xP/WxL

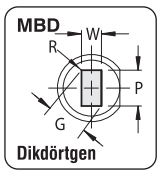
d2	Bilya Yuvası d5	Form (BHY) Yuvarlak P	Form Diğer Formlar W G/P	Standart L1	Alternatif L1 Min.	Alternatif L1 Max.	L mm
6	6	2.2 ~5.9	2.2 -5.9	13	10	-	63 71 80 90 100 125
10	8 mm	2.5 ~9.9	2.5 -9.9	19	10	19	
13		5.0 ~12.9	4.5 -12.9	19	13	25	
16		8.0 ~15.9	6.0 -15.9	19	13	25	
20		12 ~19.9	8.0 -19.9	19	13	25	
25		16 ~24.9	10 -24.9	19	13	25	
32		24 ~31.9	12.5 -31.9	25	25	30	80 90 100 125
38		30 ~37.9	14 -37.9	25	25	30	

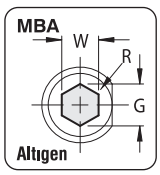
Formlar

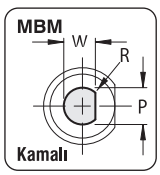


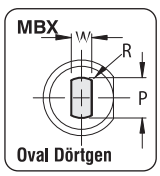


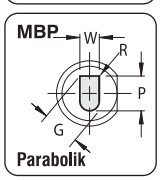


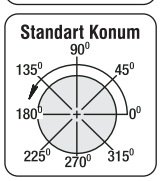








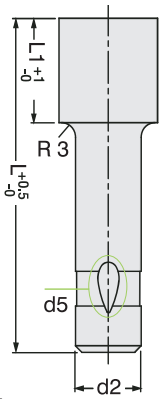


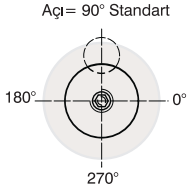


M1875 Bilya Kilitlemeli Geniş Uçlu Düz Zımba



HAFİF İŞ





Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

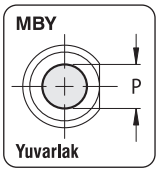
Sipariş Örneği M1875/d2 xPx L1xL

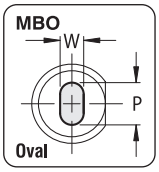
Yuvarlak Tip Zımbalar

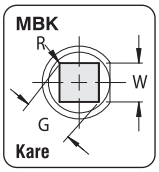
d2	Bilya Yuvası d5	P (yuvarlak) Min. Max.	L1 Min. Max.	L
10	8 mm	10.1 ~ 25	16	80 90 100
13		13.1 ~ 32	20	
16		16.1 ~ 38	25	
20		20.1 ~ 40	25	
25		25.1 ~ 44	25	
32		32.1 ~ 50	32	
40		40.1 ~ 63	32	

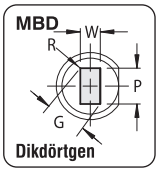
Talebe göre özel üretim yapılmaktadır.

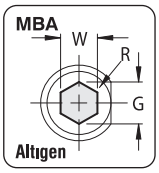
Formlar

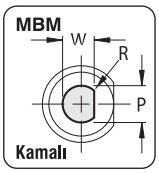


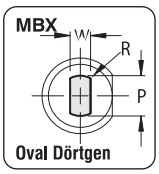


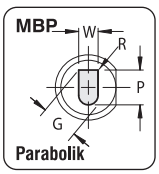


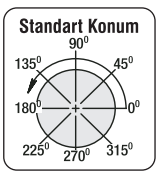








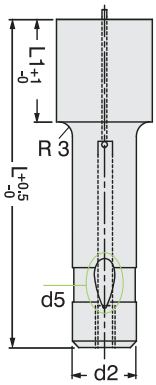


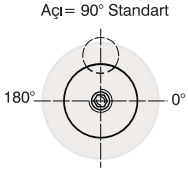


M1876 Bilya Kilitlemeli Geniş Uçlu İticili Zımba



HAFİF İŞ





Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

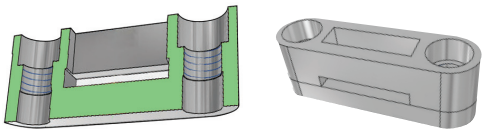
Sipariş Örneği M1876/d2 xPx L1xL

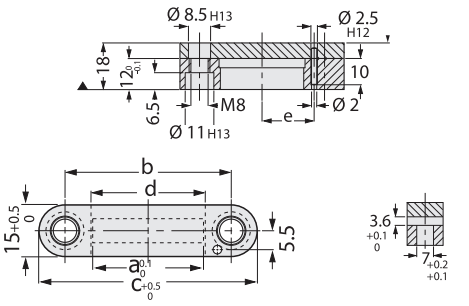
Yuvarlak Tip Zımbalar

d2	Bilya Yuvası d5	P (yuvarlak) Min. Max.	L1 Min. Max.	L
10	8 mm	10.1 ~ 25	16	80 90 100
13		13.1 ~ 32	20	
16		16.1 ~ 38	25	
20		20.1 ~ 40	25	
25		25.1 ~ 44	25	
32		32.1 ~ 50	32	
40		40.1 ~ 63	32	

Talebe göre özel üretim yapılmaktadır.

M1877 Markalama Tutucusu
PSA E24.64.100.G

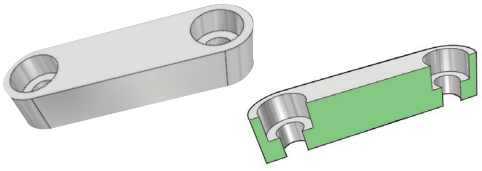


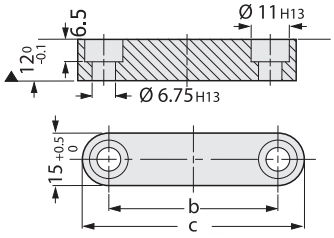


Sipariş Örneği M1877/c

Zımba Adedi	a	b	c	d	e
4	16	32	47	17	12
6	24	40	55	25	-
8	32	48	63	33	20
10	40	56	71	41	24

M1877P Tutucu Destek Plakası
PSA E24.64.100.G



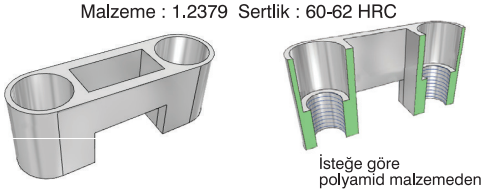


Sipariş Örneği M1877P/c

Zımba Adedi	b	c
4	32	47
6	40	56
8	48	63
10	56	71

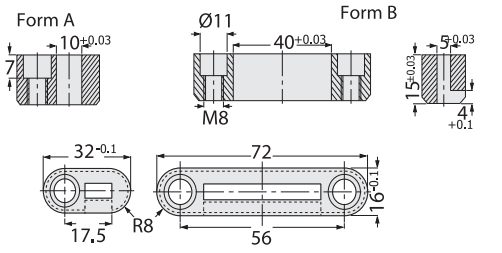
M1878 Markalama Tutucusu
Ford / WDX20-70

Malzeme : 1.2379 Sertlik : 60-62 HRC



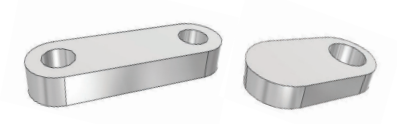
İsteğe göre polyamid malzemeden

Sipariş Örneği M1878/Form

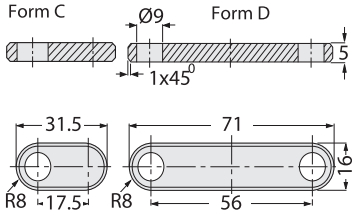


ML2 Tutucu Destek Plakası
Ford / WDX20-70

Malzeme : 1.0503 Sertlik : 60-62 HRC

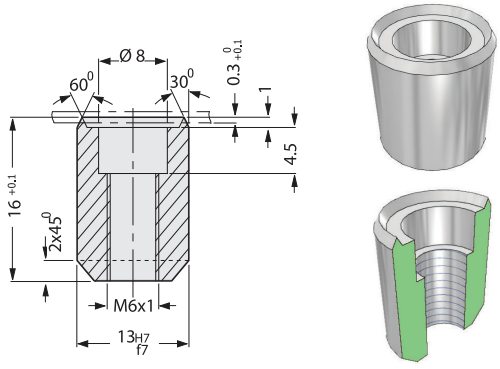


Sipariş Örneği ML2/Form

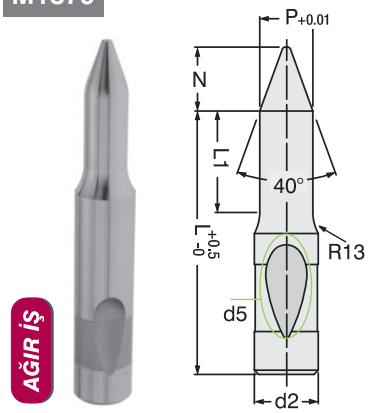


MZX20 Konum İz Zımbası
Ford / WDX20-70-0101

Malzeme : 1.2080 Sertlik : 60-64 HRC



M1879 Konik Pilot Pim



Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

- P" ölçüsü tabloda belirtilen referans "P" ölçülerinden düşük olursa "N" = 1.2 x "P" min. dur.

Sandart Toleranslar

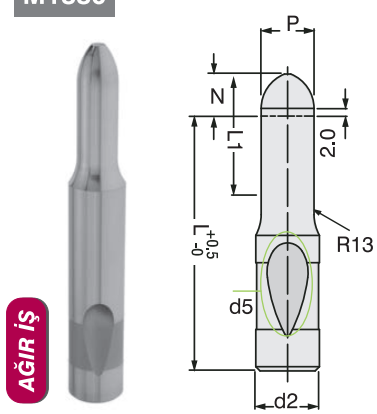
Yuvarlak /P +01 -00	,01	P'den d2'ye

P'nin d2'ye eşit olduğu durumlarda gövde toleransı geçerlidir.

Sipariş Örneği M1879/d2 x P x L

d2	d5	P	L1	N	L
10	10	5.9 ~ 9.9	19	8	80
13		9.9 ~ 12.9	19	10	100 125
16		12.9 ~ 15.9	25	15	80
20	12	15.9 ~ 19.9	25	20	100
25	mm	19.9 ~ 24.9	25	25	125
32		24.9 ~ 31.9	25	30	140
40		31.9 ~ 39.9	30	40	150

M1880 Küresel Pilot Pim



Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

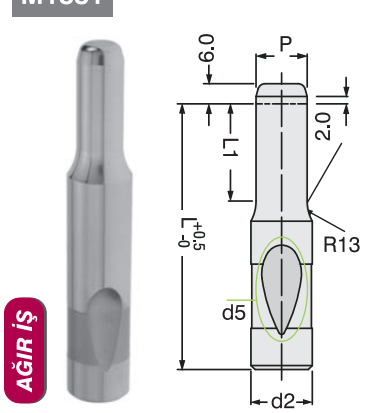
- L" pilot pimin uc hariç uzunluğudur.
- 2 mm'lik uzunluk, zımba saca temas etmeden önce zımbaya kılavuzluk eder.

	P	N
10.1 mm	≤ 10 mm	8 mm
	- 15 mm	12 mm
	> 15 mm	15 mm

Sipariş Örneği M1880/d2 x P x L

d2	d5	P	L1	N	L
10	10	2.5 ~ 10	19	10	71 80
13		5 ~ 13	19	10	100
16		8 ~ 16	19	10	
20	12	12 ~ 20	19	10	71
25	mm	16 ~ 25	19	10	80 100
32		24 ~ 32	19	10	125
40		30 ~ 40	25	10	

M1881 Parabolik Pilot Pim



Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

- P" ölçüsü tabloda belirtilen referans "P" ölçülerinden düşük olursa "N" = 1.2 x "P" min. dur.

Sandart Toleranslar

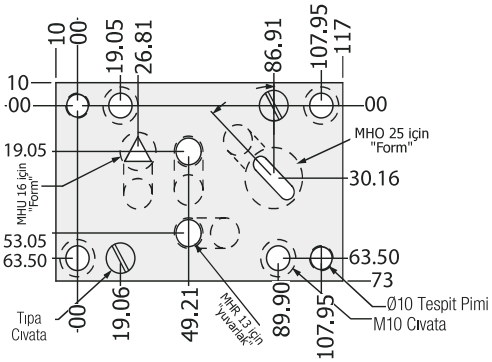
Yuvarlak /P +01 -00	,01	P'den d2'ye

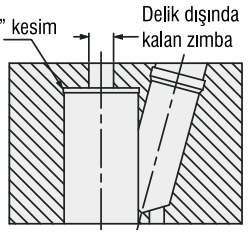
P'nin d2'ye eşit olduğu durumlarda gövde toleransı geçerlidir.

Sipariş Örneği M1881/d2 x P x L

d2	d5	P	L1	L
10	10	2.5 ~ 10	19	71 80
13		5 ~ 13	19	100
16		8 ~ 16	19	
20	12	12 ~ 20	19	71
25	mm	16 ~ 25	19	80 100
32		24 ~ 32	19	125
40		30 ~ 40	25	

Bilya Kilitlemeli Özel Tutucular, Çelik Delikli



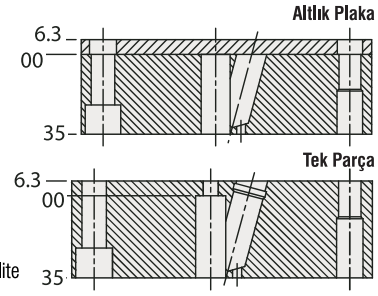


Zımba deliğine ait kesit

Aksi belirtilmediği sürece "R" kalite bilya yuvası temin edilir.

Bilya Yuvası: Kalite Radyal Tolerans

R ..... + 5°
F ..... + .0°5'



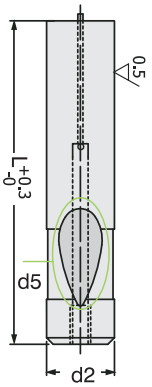
Tüm Formlar için Toleranslar

Dış Ölçüler	± .5
Pim Delikleri	± .01
Bağlama Delikleri	± .1
Parça Delikleri	± .01

Teknik resimlerde çok delikli - Bilya Kilitlemeli tutucular'a ait sertleştirilmiş altlık plakaları ve geleneksel tek parçadan oluşan tutucu olmak üzere iki farklı örnek gösterilmektedir. Burada dikkat edilmesigereken tutucu sol üst köşeden başlayarak ölçülendirilmiştir ve sıfır başlangıç noktası bir zımbaya ya da pim deliği alınarak kalıpta doğru konumlandırılmasına dikkat edilmiştir. Bu şekilde gösterim CNC programlamada zımba tutucunun uygun şekilde yerleştirilmesine ve kalıptaki konumu ya da matrisi ile eşleşmesinin sağlanmasına yardımcı olur.

M1882 Bilya Kilitlemeli İticili Zımba



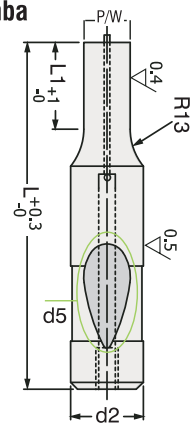


Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

Gövde ve kesici ağız kısımlar taşlanmıştır. İsteğe göre kaplama uygulanabilir. Kaplama dış katmanlarda ısı ve sürtünmeye karşı direnç sağlar, sarma ve soğuk kaynak gibi sorunlara çare olur.

M1883 Bilya Kilitlemeli İticili Zımba Formlu





Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

-P'nin d2'ye eşit olduğu durumlarda gövde toleransı geçerlidir.
-Bilya yuvasının konumu standart 90°dir.
-Ürünlerimiz NAAMS standartlarına uygundur.

Form Kodları: **MBY-MBO-MBK-MBD-MBA-MBM-MBX-MBP**

Sipariş Örneği M1882/d2 x L

d2	d5	L
Ø 10 mm	10 mm	71
		80
		90
		100
Ø 13 mm	12 mm	71
		80
		90
		100
		125
Ø 16 mm	12 mm	71
		80
		90
		100
		125
Ø 20 mm	12 mm	71
		80
		90
		100
		125

d2	d5	L
Ø 25 mm	12 mm	80
		90
		100
		110
		125
Ø 32 mm	12 mm	80
		90
		100
		110
		125
Ø 40 mm	12 mm	80
		90
		100
		110
		125

Sipariş Örneği M1883/Form Kodu/d2xP/WxL

d2	Bilya Yuvası d5	Form (MBY) Yuvarlak P	Form Diğer Formlar W G/P	Standart L1	Alternatif L1 Min. Max.	L mm
10	10	2.5 ~ 9.98	2.5 - 10	19	10 19	71 80 90 100 110 125
13	12 mm	5.0 ~ 12.98	4.5 - 13	19	13 25	
16		8.0 ~ 15.98	6.0 - 16	19	13 25	
20		12 ~ 19.98	8.0 - 20	19	13 25	
25		16 ~ 24.98	10 - 25	19	13 25	
32		24 ~ 31.98	12 - 32	19	13 25	
40		30 ~ 39.98	14 - 40	25	19 30	

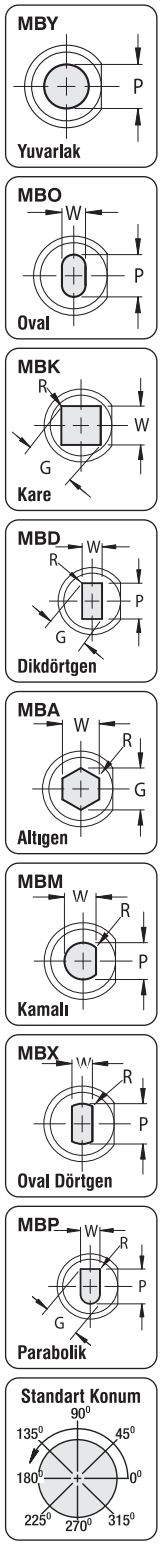
Standart Toleranslar		
Yuvarlak P +0.1 / -.00	◎ 0.1	P'den d2'ye
Form P,W,G ± 0.1	◎ 0.2	P'den d2'ye

Bilya yuvasının konumu standart 90°dir.
0° - 180° - 270° olarak da tercih edilelebilir.

Not : Kalıp üst yüzeyinden parçaların kalıptaki konumuna bakılarak parçalar görüntülenir. Zımbaların konumu gövde boyunca izlenerek belirlenir. Matrisler üst yüzeyden izlenerek konumu belirlenir.

Talebe göre özel üretim yapılmaktadır.

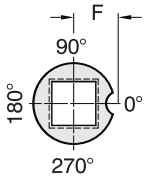
Formlar



M1884 Bilya Kilitlemeli Matris - Düz

Otomotiv Standartı

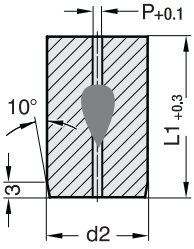




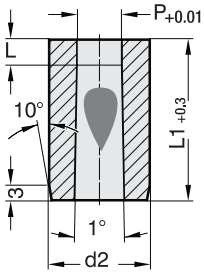
Malzeme: 1.3343 (M2)
Sertlik: 60 - 62 HRC

- İç delik konik tip
- "d2" çapı ve giriş radyüsü taşlanmış.

FORM A



FORM B



Sipariş Örneği M1884/A/d2xPxL1

FORM A
Düz Matris

d2	P	L1 + 0.3									
		13	16	20	22	25	28	30	32	35	40
10	0.8	•	•	•	•	•	•	•	•	•	
13	0.8	•	•	•	•	•	•	•	•	•	
16	1.5			•	•	•	•	•	•	•	
20	2.4			•	•	•	•	•	•	•	
25	3.0			•	•	•	•	•	•	•	
32	3.0			•	•	•	•	•	•	•	
40	3.0				•	•	•	•	•	•	•
50	3.0				•	•	•	•	•	•	•
63	3.0				•	•	•	•	•	•	•
71	3.0				•	•	•	•	•	•	•

Sipariş Örneği M1884/B/d2xPxLxL1

FORM B
Konik Matris

d2	P	L	L1 + 0.3									
			13	16	20	22	25	28	30	32	35	40
10	1.6 - 6.8	3-4-5	•	•	•	•	•	•	•	•	•	
13	3 - 8.8	3-5-8	•	•	•	•	•	•	•	•	•	
16	7.4 - 10.8	3-5-8			•	•	•	•	•	•	•	
20	9.5 - 13.6	3-5-10			•	•	•	•	•	•	•	
25	12 - 17	3-6-10			•	•	•	•	•	•	•	
32	16 - 22	3-6-12			•	•	•	•	•	•	•	
40	18 - 27	3-8-12				•	•	•	•	•	•	•
50	18 - 40	3-8-12				•	•	•	•	•	•	•
63	18 - 50	3-8-12				•	•	•	•	•	•	•
71	18 - 56	3-8-12				•	•	•	•	•	•	•

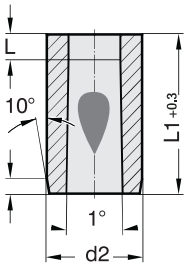
M1885 Bilya Kilitlemeli Matris - Formlu

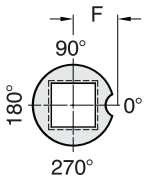
Otomotiv Standartı



Malzeme: 1.3343 (M2) **Sertlik**: 60 - 62 HRC

- İç delik konik tip
- "d2" çapı ve giriş radyüsü taşlanmış.



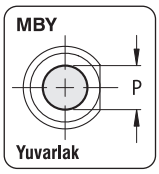


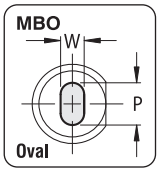
Sipariş Örneği M1885/d2 xFxW/G/(R)L x L1

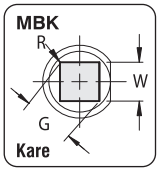
d2	F	Form		L	L1 + 0.3 (matris boyu)								
		W	G		13	16	20	22	25	28	30	32	35	40
10	7	1.3	6.8	3- 4-5	•	•	•	•	•	•	•	•	•	
13	8.2	1.9	8.8	3- 5-8	•	•	•	•	•	•	•	•	•	
16	9	1.9	10	3- 5-8			•	•	•	•	•	•	•	
20	11	1.9	13	3-6-10			•	•	•	•	•	•	•	
22	12	1.9	15	3-6-10			•	•	•	•	•	•	•	
25	13.	1.9	17	3-6-10			•	•	•	•	•	•	•	
32	16	1.9	22	3-6-10			•	•	•	•	•	•	•	
38	19	1.9	27	3-8-12			•	•	•	•	•	•	•	
40	20	2.4	27	3-8-12				•	•	•	•	•	•	•
45	22.	4.0	35	3-8-12				•	•	•	•	•	•	•
50	25	4.0	40	3-8-12				•	•	•	•	•	•	•
56	28	4.0	45	3-8-12				•	•	•	•	•	•	•
63	31.	4.0	50	3-8-12				•	•	•	•	•	•	•
71	35.	5.6	56	3-8-12				•	•	•	•	•	•	•
76	38	5.6	60	3-8-12					•	•	•	•	•	•
85	42.	5.6	66	3-8-12					•	•	•	•	•	•
90	45	5.6	70	3-8-12					•	•	•	•	•	•
100	50	5.6	78	3-8-12					•	•	•	•	•	•

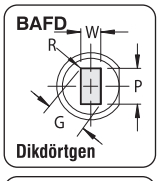
Talebe göre özel üretim yapılmaktadır.

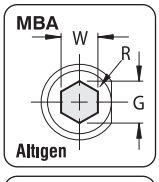
Formlar

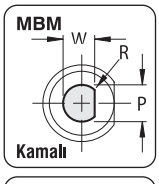


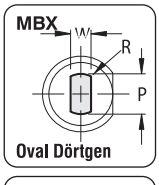


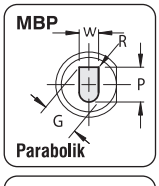


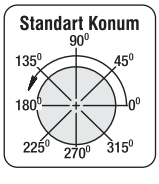




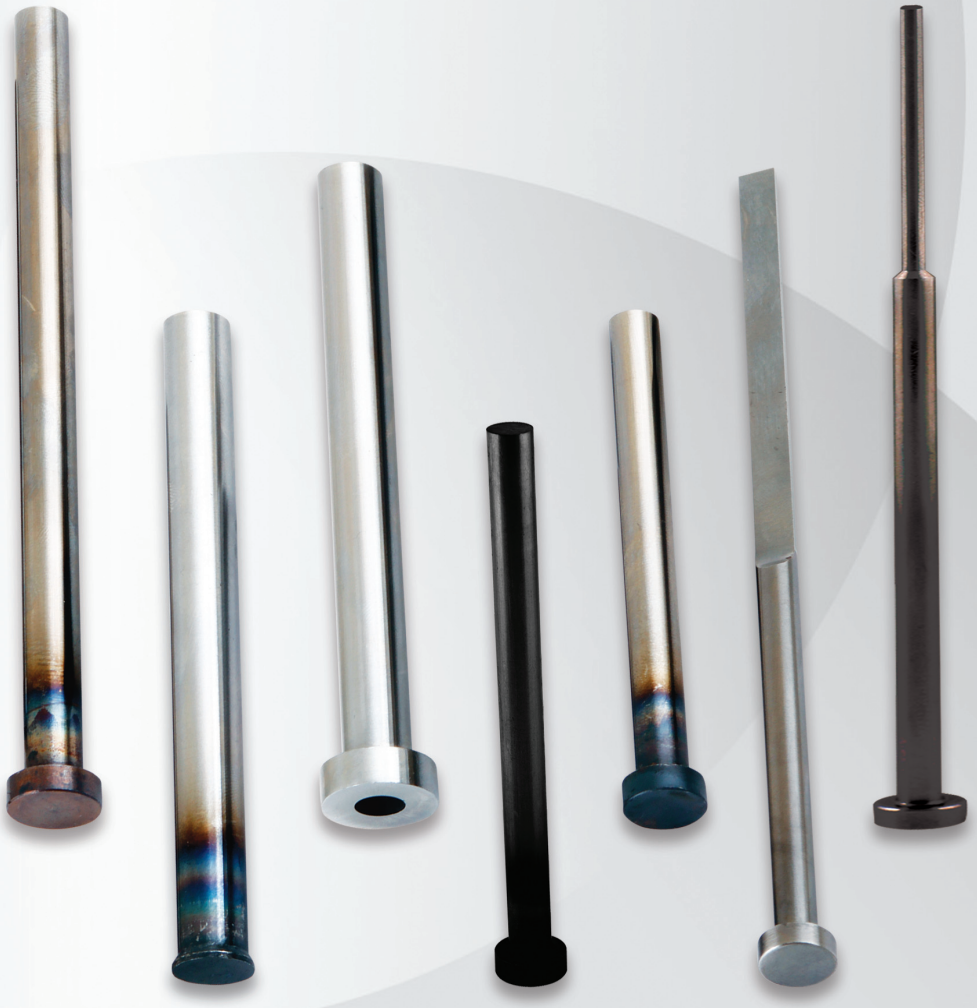








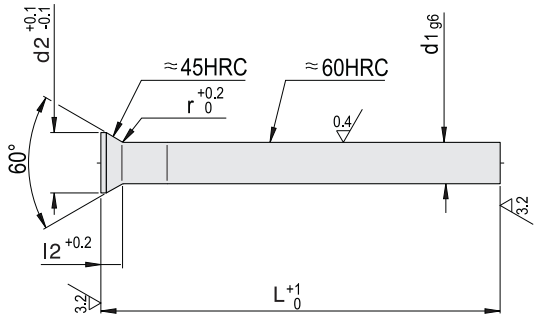
İtici Pimler



M1805 Havşa Başlı İtici Pim / DIN 1530-D

Mat.: 1.2210 Max. Isı Direnci 220°





Stoklarımızda tüm boylar ve ondalıklar mevcuttur.
Standart dışı özel ölçüler talep üzerine üretilir.

Sipariş Kodu	d1	L	d2	l2
M1805/1X80	1	80	1.8	0.5
M1805/1X100		100		
M1805/1X125		125		
M1805/1X160		160		
M1805/1X200		200		
M1805/1X250		250		
M1805/1.1X100	1.1	100	2.0	0.5
M1805/1.1X125		125		
M1805/1.1X160		160		
M1805/1.1X200		200		
M1805/1.2X100	1.2	100	2.0	0.5
M1805/1.2X125		125		
M1805/1.2X160		160		
M1805/1.2X200		200		
M1805/1.3X100	1.3	100	2.0	0.5
M1805/1.3X125		125		
M1805/1.3X160		160		
M1805/1.3X200		200		
M1805/1.4X100	1.4	100	2.0	0.5
M1805/1.4X125		125		
M1805/1.4X160		160		
M1805/1.4X200		200		
M1805/1.5X80	1.5	80	2.2	0.5
M1805/1.5X100		100		
M1805/1.5X125		125		
M1805/1.5X160		160		
M1805/1.5X200		200		
M1805/1.5X250		250		
M1805/1.6X100	1.6	100	2.5	0.5
M1805/1.6X125		125		
M1805/1.6X160		160		
M1805/1.6X200		200		
M1805/1.7X100	1.7	100	2.5	0.5
M1805/1.7X125		125		
M1805/1.7X160		160		
M1805/1.7X200		200		
M1805/1.8X100	1.8	100	2.5	0.5
M1805/1.8X125		125		
M1805/1.8X160		160		
M1805/1.8X200		200		

Sipariş Kodu	d1	L	d2	l2
M1805/1.9X100	1.9	100	2.5	0.5
M1805/1.9X125		125		
M1805/1.9X160		160		
M1805/1.9X200		200		
M1805/2X80	2	80	3.0	0.5
M1805/2X100		100		
M1805/2X125		125		
M1805/2X160		160		
M1805/2X200		200		
M1805/2X250		250		
M1805/2X315		315		
M1805/2.1X100	2.1	100	3.2	0.5
M1805/2.1X125		125		
M1805/2.1X160		160		
M1805/2.1X200		200		
M1805/2.2X100	2.2	100	3.2	0.5
M1805/2.2X125		125		
M1805/2.2X160		160		
M1805/2.2X200		200		
M1805/2.3X100	2.3	100	3.2	0.5
M1805/2.3X125		125		
M1805/2.3X160		160		
M1805/2.3X200		200		
M1805/2.4X100	2.4	100	3.2	0.5
M1805/2.4X125		125		
M1805/2.4X160		160		
M1805/2.4X200		200		
M1805/2.5X80	2.5	80	3.5	0.5
M1805/2.5X100		100		
M1805/2.5X125		125		
M1805/2.5X160		160		
M1805/2.5X200		200		
M1805/2.5X250	2.6	250	4.0	0.5
M1805/2.5X315		315		
M1805/2.6X100		100		
M1805/2.6X125		125		
M1805/2.6X160		160		
M1805/2.6X200		200		
M1805/2.7X100	2.7	100	4.0	0.5
M1805/2.7X125		125		

Sipariş Kodu	d1	L	d2	l2
M1805/2.7X160	2.7	160	4.0	0.5
M1805/2.7X200		200		
M1805/2.8X100	2.8	100	4.0	0.5
M1805/2.8X125		125		
M1805/2.8X160		160		
M1805/2.8X200		200		
M1805/2.9X100	2.9	100	4.0	0.5
M1805/2.9X125		125		
M1805/2.9X160		160		
M1805/2.9X200		200		
M1805/3X80	3	80	4.5	0.5
M1805/3X100		100		
M1805/3X125		125		
M1805/3X160		160		
M1805/3X200		200		
M1805/3X250		250		
M1805/3X315		315		
M1805/3.1X100	3.1	100	4.5	0.5
M1805/3.1X125		125		
M1805/3.1X160		160		
M1805/3.1X200		200		
M1805/3.2X100	3.2	100	4.5	0.5
M1805/3.2X125		125		
M1805/3.2X160		160		
M1805/3.2X200		200		
M1805/3.3X100	3.3	100	4.5	0.5
M1805/3.3X125		125		
M1805/3.3X160		160		
M1805/3.3X200		200		
M1805/3.4X100	3.4	100	4.5	0.5
M1805/3.4X125		125		
M1805/3.4X160		160		

Sipariş Kodu	d1	L	d2	l2
M1805/3.4X200	3.4	200	4.5	0.5
M1805/3.5X80	3.5	80	5.0	0.5
M1805/3.5X100		100		
M1805/3.5X125		125		
M1805/3.5X160		160		
M1805/3.5X200		200		
M1805/3.5X250		250		
M1805/3.5X315		315		
M1805/3.6X100	3.6	100	5.0	0.5
M1805/3.6X125		125		
M1805/3.6X160		160		
M1805/3.6X200		200		
M1805/3.7X100	3.7	100	5.0	0.5
M1805/3.7X125		125		
M1805/3.7X160		160		
M1805/3.7X200		200		
M1805/3.8X100	3.8	100	5.0	0.5
M1805/3.8X125		125		
M1805/3.8X160		160		
M1805/3.8X200		200		
M1805/3.9X100	3.9	100	5.0	0.5
M1805/3.9X125		125		
M1805/3.9X160		160		
M1805/3.9X200		200		
M1805/4X80	4	80	5.5	0.5
M1805/4X100		100		
M1805/4X125		125		
M1805/4X160		160		
M1805/4X200		200		
M1805/4X250		250		
M1805/4X315		315		
M1805/4.1X100	4.1	100	5.5	0.5
M1805/4.1X125		125		
M1805/4.1X160		160		
M1805/4.1X200		200		
M1805/4.2X100	4.2	100	5.5	0.5
M1805/4.2X125		125		
M1805/4.2X160		160		
M1805/4.2X200		200		
M1805/4.3X100	4.3	100	5.5	0.5
M1805/4.3X125		125		
M1805/4.3X160		160		
M1805/4.3X200		200		
M1805/4.4X100	4.4	100	5.5	0.5
M1805/4.4X125		125		
M1805/4.4X160		160		
M1805/4.4X200		200		
M1805/4.5X80	4.5	80	6.0	0.5
M1805/4.5X100		100		
M1805/4.5X125		125		
M1805/4.5X160		160		
M1805/4.5X200		200		
M1805/4.5X250		250		
M1805/4.5X315		315		
M1805/4.6X100	4.6	100	6.0	0.5
M1805/4.6X125		125		
M1805/4.6X160		160		
M1805/4.6X200		200		
M1805/4.7X100	4.7	100	6.0	0.5
M1805/4.7X125		125		

Sipariş Kodu	d1	L	d2	l2
M1805/4.7X160	4.7	160	6.0	0.5
M1805/4.7X200		200		
M1805/4.8X100	4.8	100	6.0	0.5
M1805/4.8X125		125		
M1805/4.8X160		160		
M1805/4.8X200		200		
M1805/4.9X100	4.9	100	6.0	0.5
M1805/4.9X125		125		
M1805/4.9X160		160		
M1805/4.9X200		200		
M1805/5X80	5	80	6.5	0.5
M1805/5X100		100		
M1805/5X125		125		
M1805/5X160		160		
M1805/5X200		200		
M1805/5X250		250		
M1805/5X315		315		
M1805/5.1X100	5.1	100	6.5	0.5
M1805/5.1X125		125		
M1805/5.1X160		160		
M1805/5.1X200		200		
M1805/5.2X100	5.2	100	6.5	0.5
M1805/5.2X125		125		
M1805/5.2X160		160		
M1805/5.2X200		200		
M1805/5.3X100	5.3	100	6.5	0.5
M1805/5.3X125		125		
M1805/5.3X160		160		
M1805/5.3X200		200		
M1805/5.4X100	5.4	100	6.5	0.5
M1805/5.4X125		125		
M1805/5.4X160		160		
M1805/5.4X200		200		
M1805/5.5X80	5.5	80	7.0	0.5
M1805/5.5X100		100		
M1805/5.5X125		125		
M1805/5.5X160		160		
M1805/5.5X200		200		
M1805/5.5X250		250		
M1805/5.5X315		315		
M1805/5.6X100	5.6	100	7.0	0.5
M1805/5.6X125		125		
M1805/5.6X160		160		
M1805/5.6X200		200		
M1805/5.7X100	5.7	100	7.0	0.5
M1805/5.7X125		125		
M1805/5.7X160		160		
M1805/5.7X200		200		
M1805/5.8X100	5.8	100	7.0	0.5
M1805/5.8X125		125		
M1805/5.8X160		160		
M1805/5.8X200		200		
M1805/5.9X100	5.9	100	7.0	0.5
M1805/5.9X125		125		
M1805/5.9X160		160		
M1805/5.9X200		200		
M1805/6X80	6	80	8.0	0.5
M1805/6X100		100		
M1805/6X125		125		
M1805/6X160		160		

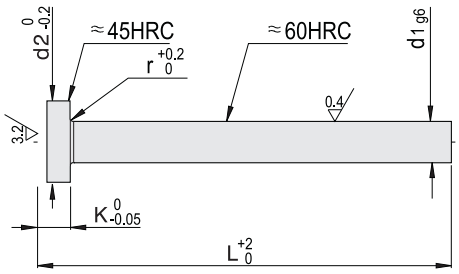
Sipariş Kodu	d1	L	d2	l2
M1805/6X200	6	200	8.0	0.5
M1805/6X250		250		
M1805/6X315		315		
M1805/6.5X80	6.5	80	9.0	1.0
M1805/6.5X100		100		
M1805/6.5X125		125		
M1805/6.5X160		160		
M1805/6.5X200		200		
M1805/6.5X250		250		
M1805/6.5X315		315		
M1805/7X80	7	80	9.0	1.0
M1805/7X100		100		
M1805/7X125		125		
M1805/7X160		160		
M1805/7X200		200		
M1805/7X250		250		
M1805/7X315		315		
M1805/7.5X80	7.5	80	10	1.0
M1805/7.5X100		100		
M1805/7.5X125		125		
M1805/7.5X160		160		
M1805/7.5X200		200		
M1805/7.5X250		250		
M1805/7.5X315		315		
M1805/8X80	8	80	10	1.0
M1805/8X100		100		
M1805/8X125		125		
M1805/8X160		160		
M1805/8X200		200		
M1805/8X250		250		
M1805/8X315		315		
M1805/8.5X80	8.5	80	11	1.0
M1805/8.5X100		100		
M1805/8.5X125		125		
M1805/8.5X160		160		
M1805/8.5X200		200		
M1805/8.5X250		250		
M1805/8.5X315		315		
M1805/9X80	9	80	11	1.0
M1805/9X100		100		
M1805/9X125		125		
M1805/9X160		160		
M1805/9X200		200		
M1805/9X250		250		
M1805/9X315		315		
M1805/9.5X80	9.5	80	12	1.0
M1805/9.5X100		100		
M1805/9.5X125		125		
M1805/9.5X160		160		
M1805/9.5X200		200		
M1805/9.5X250		250		
M1805/9.5X315		315		
M1805/10X80	10	80	12	1.0
M1805/10X100		100		
M1805/10X125		125		
M1805/10X160		160		
M1805/10X200		200		
M1805/10X250		250		
M1805/10X315		315		
M1805/10.5X80	10.5	80	13	1.0

Sipariş Kodu	d1	L	d2	l2
M1805/10.5X100	10.5	100	13	1.0
M1805/10.5X125		125		
M1805/10.5X160		160		
M1805/10.5X200		200		
M1805/10.5X250		250		
M1805/10.5X315		315		
M1805/11X80	11	80	13	1.0
M1805/11X100		100		
M1805/11X125		125		
M1805/11X160		160		
M1805/11X200		200		
M1805/11X250		250		
M1805/11X315	11.5	315	14	1.0
M1805/11.5X80		80		
M1805/11.5X100		100		
M1805/11.5X125		125		
M1805/11.5X160		160		
M1805/11.5X200		200		
M1805/11.5X250		250		
M1805/11.5X315		315		
M1805/12X80	12	80	14	1.0
M1805/12X100		100		
M1805/12X125		125		
M1805/12X160		160		
M1805/12X200		200		
M1805/12X250		250		
M1805/12X315		315		
M1805/12.5X80	12.5	80	15	1.0
M1805/12.5X100		100		
M1805/12.5X125		125		
M1805/12.5X160		160		
M1805/12.5X200		200		
M1805/12.5X250		250		
M1805/12.5X315		315		
M1805/13X80	13	80	15	1.0
M1805/13X100		100		
M1805/13X125		125		
M1805/13X160		160		
M1805/13X200		200		
M1805/13X250		250		
M1805/13X315		315		
M1805/14X80	14	80	16	1.5
M1805/14X100		100		
M1805/14X125		125		
M1805/14X160		160		
M1805/14X200		200		
M1805/14X250		250		
M1805/14X315		315		
M1805/16X80	16	80	18	1.5
M1805/16X100		100		
M1805/16X125		125		
M1805/16X160		160		
M1805/16X200		200		
M1805/16X250		250		
M1805/16X315		315		

M1810 Plastik Enjeksiyon Silindir Başlı İtici Pimler

ISO 6751 (DIN 1530A) Form AH Mat.: 1.2210 Max. Isı Direnci 220°





Stoklarımızda tüm boylar ve ondalıklar mevcuttur.
Standart dışı özel ölçüler talep üzerine üretilir.

Sipariş Kodu	d1	L	d2	K
M1810/1X100	1	100	2.5	1.2
M1810/1X125		125		
M1810/1X160		160		
M1810/1X200		200		
M1810/1X250		250		
M1810/1.1X100	1.1	100	2.5	1.2
M1810/1.1X125		125		
M1810/1.1X160		160		
M1810/1.1X200		200		
M1810/1.2X100	1.2	100	2.5	1.2
M1810/1.2X125		125		
M1810/1.2X160		160		
M1810/1.2X200		200		
M1810/1.3X100	1.3	100	3.0	1.5
M1810/1.3X125		125		
M1810/1.3X160		160		
M1810/1.3X200		200		
M1810/1.4X100	1.4	100	3.0	1.5
M1810/1.4X125		125		
M1810/1.4X160		160		
M1810/1.4X200		200		
M1810/1.5X100	1.5	100	3.0	1.5
M1810/1.5X125		125		
M1810/1.5X160		160		
M1810/1.5X200		200		
M1810/1.5X250		250		
M1810/1.6X100	1.6	100	3.0	1.5
M1810/1.6X125		125		
M1810/1.6X160		160		
M1810/1.6X200		200		
M1810/1.7X100	1.7	100	3.0	1.5
M1810/1.7X125		125		
M1810/1.7X160		160		
M1810/1.7X200		200		
M1810/1.8X100	1.8	100	3.0	1.5
M1810/1.8X125		125		
M1810/1.8X160		160		
M1810/1.8X200		200		
M1805/1.9X100	1.9	100	3.0	1.5
M1805/1.9X125		125		

Sipariş Kodu	d1	L	d2	K
M1810/1.9X160	1.9	160	3.0	1.5
M1810/1.9X200		200		
M1810/2X100	2	100	4.0	2.0
M1810/2X125		125		
M1810/2X160		160		
M1810/2X200		200		
M1810/2X250		250		
M1810/2X315		315		
M1810/2X400		400		
M1810/2X500		500		
M1810/2.1X100	2.1	100	4.0	2.0
M1810/2.1X125		125		
M1810/2.1X160		160		
M1810/2.1X200		200		
M1810/2.2X100	2.2	100	4.0	2.0
M1810/2.2X125		125		
M1810/2.2X160		160		
M1810/2.2X200		200		
M1810/2.3X100	2.3	100	4.0	2.0
M1810/2.3X125		125		
M1810/2.3X160		160		
M1810/2.3X200		200		
M1810/2.4X100	2.4	100	5.0	2.0
M1810/2.4X125		125		
M1810/2.4X160		160		
M1810/2.4X200		260		
M1810/2.5X100	2.5	100	5.0	2.0
M1810/2.5X125		125		
M1810/2.5X160		160		
M1810/2.5X200		200		
M1810/2.5X250		250		
M1810/2.5X315		315		
M1810/2.5X400		400		
M1810/2.5X500		500		
M1810/2.6X100	2.6	100	5.0	2.0
M1810/2.6X125		125		
M1810/2.6X160		160		
M1810/2.6X200		200		
M1810/2.7X100	2.7	100	5.0	2.0
M1810/2.7X125		125		

Sipariş Kodu	d1	L	d2	K
M1810/2.7X160	2.7	160	5.0	2.0
M1810/2.7X200		200		
M1810/2.8X100	2.8	100	5.0	2.0
M1810/2.8X125		125		
M1810/2.8X160		160		
M1810/2.8X200		200		
M1810/2.9X100	2.9	100	5.0	2.0
M1810/2.9X125		125		
M1810/2.9X160		160		
M1810/2.9X200		200		
M1810/3X100	3	100	6.0	3.0
M1810/3X125		125		
M1810/3X160		160		
M1810/3X200		200		
M1810/3X250		250		
M1810/3X315		315		
M1810/3X400		400		
M1810/3X500		500		
M1810/3X630		630		
M1810/3.1X100	3.1	100	6.0	3.0
M1810/3.1X125		125		
M1810/3.1X160		160		
M1810/3.1X200		200		
M1810/3.2X100	3.2	100	6.0	3.0
M1810/3.2X125		125		
M1810/3.2X160		160		
M1810/3.2X200		200		
M1810/3.2X250		250		
M1810/3.3X100	3.3	100	6.0	3.0
M1810/3.3X125		125		
M1810/3.3X160		160		
M1810/3.3X200		200		
M1810/3.4X100	3.4	100	6.0	3.0
M1810/3.4X125		125		
M1810/3.4X160		160		
M1810/3.4X200		200		
M1810/3.5X100	3.5	100	7.0	3.0
M1810/3.5X125		125		
M1810/3.5X160		160		
M1810/3.5X200		200		

Sipariş Kodu	d1	L	d2	K
M1810/3.5X250	3.5	250	7.0	3.0
M1810/3.5X315		315		
M1810/3.5X400		400		
M1810/3.5X500		500		
M1810/3.5X630		630		
M1810/3.6X100	3.6	100	7.0	3.0
M1810/3.6X125		125		
M1810/3.6X160		160		
M1810/3.6X200		200		
M1810/3.7X100	3.7	100	7.0	3.0
M1810/3.7X125		125		
M1810/3.7X160		160		
M1810/3.7X200		200		
M1810/3.8X100	3.8	100	7.0	3.0
M1810/3.8X125		125		
M1810/3.8X160		160		
M1805/3.8X200		200		
M1810/3.9X100	3.9	100	7.0	3.0
M1810/3.9X125		125		
M1810/3.9X160		160		
M1810/3.9X200		200		
M1810/4X100	4	100	8.0	3.0
M1810/4X125		125		
M1810/4X160		160		
M1810/4X200		200		
M1810/4X250		250		
M1810/4X315		315		
M1810/4X400		400		
M1810/4X500		500		
M1810/4X630		630		
M1810/4X800		800		
M1810/4X1000		1000		
M1810/4.1X100	4.1	100	8.0	3.0
M1810/4.1X125		125		
M1810/4.1X160		160		
M1810/4.1X200		200		
M1810/4.2X100	4.2	100	8.0	3.0
M1810/4.2X125		125		
M1810/4.2X160		160		
M1810/4.2X200		200		
M1810/4.3X100	4.3	100	8.0	3.0
M1810/4.3X125		125		
M1810/4.3X160		160		
M1810/4.3X200		200		
M1810/4.4X100	4.4	100	8.0	3.0
M1810/4.4X125		125		
M1810/4.4X160		160		
M1810/4.4X200		200		
M1810/4.5X100	4.5	100	8.0	3.0
M1810/4.5X125		125		
M1810/4.5X160		160		
M1810/4.5X200		200		
M1810/4.5X250		250		
M1810/4.5X315		315		
M1810/4.5X400		400		
M1810/4.5X500		500		
M1810/4.5X600		600		
M1810/4.6X100	4.6	100	8.0	3.0
M1810/4.6X125		125		

Sipariş Kodu	d1	L	d2	K
M1810/4.6X160	4.6	160	8.0	3.0
M1810/4.6X200		200		
M1810/4.7X100	4.7	100	8.0	3.0
M1810/4.7X125		125		
M1810/4.7X160		160		
M1810/4.7X200		200		
M1810/4.8X100	4.8	100	8.0	3.0
M1810/4.8X125		125		
M1810/4.8X160		160		
M1810/4.8X200		200		
M1810/4.9X100	4.9	100	8.0	3.0
M1810/4.9X125		125		
M1810/4.9X160		160		
M1810/4.9X200		200		
M1810/5X100	5	100	10	3.0
M1810/5X125		125		
M1810/5X160		160		
M1810/5X200		200		
M1810/5X250		250		
M1810/5X315		315		
M1810/5X400		400		
M1810/5X500		500		
M1810/5X630		630		
M1810/5X800		800		
M1810/5X1000	5.1	1000	10	3.0
M1810/5.1X100		100		
M1810/5.1X125		125		
M1810/5.1X160		160		
M1810/5.1X200	5.2	200	10	3.0
M1810/5.2X100		100		
M1810/5.2X125		125		
M1810/5.2X160		160		
M1810/5.2X200	5.3	200	10	3.0
M1810/5.3X100		100		
M1810/5.3X125		125		
M1810/5.3X160		160		
M1810/5.3X200	5.4	200	10	3.0
M1810/5.4X100		100		
M1810/5.4X125		125		
M1810/5.4X160		160		
M1810/5.4X200	5.5	200	10	3.0
M1810/5.5X100		100		
M1810/5.5X125		125		
M1810/5.5X160		160		
M1810/5.5X200		200		
M1810/5.5X250		250		
M1810/5.5X315		315		
M1810/5.5X400		400		
M1810/5.5X500		500		
M1810/5.5X630		630		
M1810/5.5X800	5.6	800	10	3.0
M1810/5.6X100		100		
M1810/5.6X125		125		
M1810/5.6X160		160		
M1810/5.6X200	5.7	200	10	3.0
M1810/5.7X100		100		
M1810/5.7X125		125		
M1810/5.7X160		160		
M1810/5.7X200		200		

Sipariş Kodu	d1	L	d2	K
M1810/5.8X100	5.8	100	10	3.0
M1810/5.8X125		125		
M1810/5.8X160		160		
M1810/5.8X200		200		
M1810/5.9X100	5.9	100	10	3.0
M1810/5.9X125		125		
M1810/5.9X160		160		
M1810/5.9X200		200		
M1810/6X100	6	100	12	5.0
M1810/6X125		125		
M1810/6X160		160		
M1810/6X200		200		
M1810/6X250		250		
M1810/6X315		315		
M1810/6X400		400		
M1810/6X500		500		
M1810/6X630		630		
M1810/6X800		800		
M1810/6X1000		1000		
M1810/6.5X100	6.5	100	12	5.0
M1810/6.5X125		125		
M1810/6.5X160		160		
M1810/6.5X200		200		
M1810/6.5X250		250		
M1810/6.5X315		315		
M1810/6.5X400		400		
M1810/6.5X500		500		
M1810/6.5X630		630		
M1810/6.5X800		800		
M1810/7X100	7	100	12	5.0
M1810/7X125		125		
M1810/7X160		160		
M1810/7X200		200		
M1810/7X250		250		
M1810/7X315		315		
M1810/7X400		400		
M1810/7X500		500		
M1810/7X630		630		
M1810/7X800	7.5	800	12	5.0
M1810/7.5X100		100		
M1810/7.5X125		125		
M1810/7.5X160		160		
M1810/7.5X200		200		
M1810/7.5X250		250		
M1810/7.5X315		315		
M1810/7.5X400		400		
M1810/7.5X500		500		
M1810/7.5X630		630		
M1810/7.5X800		800		
M1810/8X100	8	100	14	5.0
M1810/8X125		125		
M1810/8X160		160		
M1810/8X200		200		
M1810/8X250		250		
M1810/8X315		315		
M1810/8X400		400		
M1810/8X500		500		
M1810/8X630		630		
M1810/8X800		800		

Sipariş Kodu	d1	L	d2	K
M1810/8X1000	8	1000	14	5.0
M1810/8.5X100	8.5	100	14	5.0
M1810/8.5X125		125		
M1810/8.5X160		160		
M1810/8.5X200		200		
M1810/8.5X250		250		
M1810/8.5X315		315		
M1810/8.5X400		400		
M1810/8.5X500		500		
M1810/8.5X630		630		
M1810/8.5X800		800		
M1810/9X100	9	100	14	5.0
M1810/9X125		125		
M1810/9X160		160		
M1810/9X200		200		
M1810/9X250		250		
M1810/9X315		315		
M1810/9X400		400		
M1810/9X500		500		
M1810/9X630		630		
M1810/9X800		800		
M1810/10X100	10	100	16	5.0
M1810/10X125		125		
M1810/10X160		160		
M1810/10X200		200		
M1810/10X250		250		
M1810/10X315		315		
M1810/10X400		400		
M1810/10X500		500		
M1810/10X630		630		
M1810/10X800		800		
M1810/10X1000		1000		
M1810/10.5X125	10.5	125	16	5.0
M1810/10.5X160		160		
M1810/10.5X200		200		
M1810/10.5X250		250		
M1810/10.5X315		315		
M1810/10.5X400		400		
M1810/10.5X500		500		
M1810/10.5X630		630		
M1810/10.5X800		800		
M1810/11X100	11	100	16	5.0
M1810/11X125		125		
M1810/11X160		160		
M1810/11X200		200		
M1810/11X250		250		
M1810/11X315		315		
M1810/11X400		400		
M1810/11X500		500		
M1810/11X630		630		
M1810/11X800		800		
M1810/12X100	12	100	18	7.0
M1810/12X125		125		
M1810/12X160		160		
M1810/12X200		200		
M1810/12X250		250		
M1810/12X315		315		
M1810/12X400		400		
M1810/12X500		500		
M1810/12X630		630		

Sipariş Kodu	d1	L	d2	K
M1810/12X800	12	800	18	7.0
M1810/12X1000		1000		
M1810/12.5X100	12.5	100	18	7.0
M1810/12.5X125		125		
M1810/12.5X160		160		
M1810/12.5X200		200		
M1810/12.5X250		250		
M1810/12.5X315		315		
M1810/12.5X400		400		
M1810/12.5X500		500		
M1810/13X100	13	100	22	7.0
M1810/13X125		125		
M1810/13X160		160		
M1810/13X200		200		
M1810/13X250		250		
M1810/13X315		315		
M1810/13X400		400		
M1810/13X500		500		
M1810/13X630		630		
M1810/13X800		800		
M1810/14X100	14	100	22	7.0
M1810/14X125		125		
M1810/14X160		160		
M1810/14X200		200		
M1810/14X250		250		
M1810/14X315		315		
M1810/14X400		400		
M1810/14X500		500		
M1810/14X630		630		
M1810/14X800		800		
M1810/14X1000		1000		
M1810/16X100	16	100	22	7.0
M1810/16X125		125		
M1810/16X160		160		
M1810/16X200		200		
M1810/16X250		250		
M1810/16X315		315		
M1810/16X400		400		
M1810/16X500		500		
M1810/16X630		630		
M1810/16X800		800		
M1810/16X1000		1000		
M1810/18X100	18	100	24	7.0
M1810/18X125		125		
M1810/18X160		160		
M1810/18X200		200		
M1810/18X250		250		
M1810/18X315		315		
M1810/18X400		400		
M1810/18X500		500		
M1810/18X630		630		
M1810/18X800		800		
M1810/18X1000		1000		
M1810/20X100	20	100	26	8.0
M1810/20X125		125		
M1810/20X160		160		
M1810/20X200		200		
M1810/20X250		250		
M1810/20X315		315		

Sipariş Kodu	d1	L	d2	K
M1810/20X400	20	400	26	8.0
M1810/20X500		500		
M1810/20X630		630		
M1810/20X800		800		
M1810/20X1000		1000		
M1810/25X125	25	125	32	10
M1810/25X160		160		
M1810/25X200		200		
M1810/25X250		250		
M1810/25X315		315		
M1810/25X400		400		
M1810/25X500		500		
M1810/25X630		630		
M1810/25X800		800		
M1810/25X1000		1000		

M1810D Plastik Enjeksiyon Silindir Başlı İtici Pimler DLC

ISO 6751 (DIN 1530A) Form AH Mat.: 1.2210 Max. Isı Direnci 220°

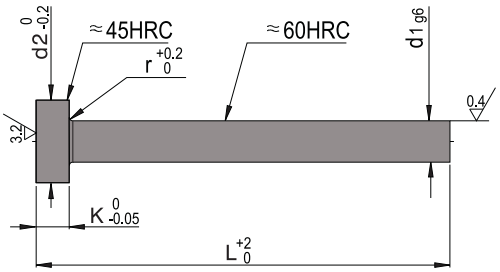


Elmas benzeri karbon(DLC)

Bu kaplama yağlama olmasa bile en yüksek aşınma koşullarına ve yüksek kayma hızlarına mükemmel uygunluktadır.

Sürtünme kayıplarını minimize ederler.

DLC kaplama aşınma tribo oksidasyon ve kaynaşma aşınmasına karşı mükemmel koruma sağlar.



Stoklarımızda tüm boylar ve ondalıklar mevcuttur.
Standart dışı özel ölçüler talep üzerine üretilir.

Sipariş Kodu	d1	L	d2	K
M1810D/1X100	1	100	2.5	1.2
M1810D/1X125		125		
M1810D/1X160		160		
M1810D/1X200		200		
M1810D/1X250		250		
M1810D/1.1X100	1.1	100	2.5	1.2
M1810D/1.1X125		125		
M1810D/1.1X160		160		
M1810D/1.1X200		200		
M1810D/1.2X100	1.2	100	2.5	1.2
M1810D/1.2X125		125		
M1810D/1.2X160		160		
M1810D/1.2X200		200		
M1810D/1.3X100	1.3	100	3.0	1.5
M1810D/1.3X125		125		
M1810D/1.3X160		160		
M1810D/1.3X200		200		
M1810D/1.4X100	1.4	100	3.0	1.5
M1810D/1.4X125		125		
M1810D/1.4X160		160		
M1810D/1.4X200		200		
M1810D/1.5X100	1.5	100	3.0	1.5
M1810D/1.5X125		125		
M1810D/1.5X160		160		
M1810D/1.5X200		200		
M1810D/1.5X250		250		
M1810D/1.6X100	1.6	100	3.0	1.5
M1810D/1.6X125		125		
M1810D/1.6X160		160		
M1810D/1.6X200		200		
M1810D/1.7X100	1.7	100	3.0	1.5
M1810D/1.7X125		125		
M1810D/1.7X160		160		
M1810D/1.7X200		200		
M1810D/1.8X100	1.8	100	3.0	1.5
M1810D/1.8X125		125		
M1810D/1.8X160		160		
M1810D/1.8X200		200		
M1805/1.9X100	1.9	100	3.0	1.5
M1805/1.9X125		125		

Sipariş Kodu	d1	L	d2	K
M1810D/1.9X160	1.9	160	3.0	1.5
M1810D/1.9X200		200		
M1810D/2X100	2	100	4.0	2.0
M1810D/2X125		125		
M1810D/2X160		160		
M1810D/2X200		200		
M1810D/2X250		250		
M1810D/2X315		315		
M1810D/2X400		400		
M1810D/2X500		500		
M1810D/2.1X100	2.1	100	4.0	2.0
M1810D/2.1X125		125		
M1810D/2.1X160		160		
M1810D/2.1X200		200		
M1810D/2.2X100	2.2	100	4.0	2.0
M1810D/2.2X125		125		
M1810D/2.2X160		160		
M1810D/2.2X200		200		
M1810D/2.3X100	2.3	100	4.0	2.0
M1810D/2.3X125		125		
M1810D/2.3X160		160		
M1810D/2.3X200		200		
M1810D/2.4X100	2.4	100	5.0	2.0
M1810D/2.4X125		125		
M1810D/2.4X160		160		
M1810D/2.4X200		260		
M1810D/2.5X100	2.5	100	5.0	2.0
M1810D/2.5X125		125		
M1810D/2.5X160		160		
M1810D/2.5X200		200		
M1810D/2.5X250		250		
M1810D/2.5X315		315		
M1810D/2.5X400		400		
M1810D/2.5X500		500		
M1810D/2.6X100	2.6	100	5.0	2.0
M1810D/2.6X125		125		
M1810D/2.6X160		160		
M1810D/2.6X200		200		
M1810D/2.7X100	2.7	100	5.0	2.0
M1810D/2.7X125		125		

Sipariş Kodu	d1	L	d2	K
M1810D/2.7X160	2.7	160	5.0	2.0
M1810D/2.7X200		200		
M1810D/2.8X100	2.8	100	5.0	2.0
M1810D/2.8X125		125		
M1810D/2.8X160		160		
M1810D/2.8X200		200		
M1810D/2.9X100	2.9	100	5.0	2.0
M1810D/2.9X125		125		
M1810D/2.9X160		160		
M1810D/2.9X200		200		
M1810D/3X100	3	100	6.0	3.0
M1810D/3X125		125		
M1810D/3X160		160		
M1810D/3X200		200		
M1810D/3X250		250		
M1810D/3X315		315		
M1810D/3X400		400		
M1810D/3X500		500		
M1810D/3X630		630		
M1810D/3.1X100	3.1	100	6.0	3.0
M1810D/3.1X125		125		
M1810D/3.1X160		160		
M1810D/3.1X200		200		
M1810D/3.2X100	3.2	100	6.0	3.0
M1810D/3.2X125		125		
M1810D/3.2X160		160		
M1810D/3.2X200		200		
M1810D/3.2X250		250		
M1810D/3.3X100	3.3	100	6.0	3.0
M1810D/3.3X125		125		
M1810D/3.3X160		160		
M1810D/3.3X200		200		
M1810D/3.4X100	3.4	100	6.0	3.0
M1810D/3.4X125		125		
M1810D/3.4X160		160		
M1810D/3.4X200		200		
M1810D/3.5X100	3.5	100	7.0	3.0
M1810D/3.5X125		125		
M1810D/3.5X160		160		
M1810D/3.5X200		200		

Sipariş Kodu	d1	L	d2	K
M1810D/3.5X250	3.5	250	7.0	3.0
M1810D/3.5X315		315		
M1810D/3.5X400		400		
M1810D/3.5X500		500		
M1810D/3.5X630		630		
M1810D/3.6X100	3.6	100	7.0	3.0
M1810D/3.6X125		125		
M1810D/3.6X160		160		
M1810D/3.6X200		200		
M1810D/3.7X100	3.7	100	7.0	3.0
M1810D/3.7X125		125		
M1810D/3.7X160		160		
M1810D/3.7X200		200		
M1810D/3.8X100	3.8	100	7.0	3.0
M1810D/3.8X125		125		
M1810D/3.8X160		160		
M1805/3.8X200		200		
M1810D/3.9X100	3.9	100	7.0	3.0
M1810D/3.9X125		125		
M1810D/3.9X160		160		
M1810D/3.9X200		200		
M1810D/4X100	4	100	8.0	3.0
M1810D/4X125		125		
M1810D/4X160		160		
M1810D/4X200		200		
M1810D/4X250		250		
M1810D/4X315		315		
M1810D/4X400		400		
M1810D/4X500		500		
M1810D/4X630		630		
M1810D/4X800		800		
M1810D/4X1000		1000		
M1810D/4.1X100	4.1	100	8.0	3.0
M1810D/4.1X125		125		
M1810D/4.1X160		160		
M1810D/4.1X200		200		
M1810D/4.2X100	4.2	100	8.0	3.0
M1810D/4.2X125		125		
M1810D/4.2X160		160		
M1810D/4.2X200		200		
M1810D/4.3X100	4.3	100	8.0	3.0
M1810D/4.3X125		125		
M1810D/4.3X160		160		
M1810D/4.3X200		200		
M1810D/4.4X100	4.4	100	8.0	3.0
M1810D/4.4X125		125		
M1810D/4.4X160		160		
M1810D/4.4X200		200		
M1810D/4.5X100	4.5	100	8.0	3.0
M1810D/4.5X125		125		
M1810D/4.5X160		160		
M1810D/4.5X200		200		
M1810D/4.5X250		250		
M1810D/4.5X315		315		
M1810D/4.5X400		400		
M1810D/4.5X500		500		
M1810D/4.5X600		600		
M1810D/4.6X100	4.6	100	8.0	3.0
M1810D/4.6X125		125		

Sipariş Kodu	d1	L	d2	K
M1810D/4.6X160	4.6	160	8.0	3.0
M1810D/4.6X200		200		
M1810D/4.7X100	4.7	100	8.0	3.0
M1810D/4.7X125		125		
M1810D/4.7X160		160		
M1810D/4.7X200		200		
M1810D/4.8X100	4.8	100	8.0	3.0
M1810D/4.8X125		125		
M1810D/4.8X160		160		
M1810D/4.8X200		200		
M1810D/4.9X100	4.9	100	8.0	3.0
M1810D/4.9X125		125		
M1810D/4.9X160		160		
M1810D/4.9X200		200		
M1810D/5X100	5	100	10	3.0
M1810D/5X125		125		
M1810D/5X160		160		
M1810D/5X200		200		
M1810D/5X250		250		
M1810D/5X315		315		
M1810D/5X400		400		
M1810D/5X500		500		
M1810D/5X630		630		
M1810D/5X800		800		
M1810D/5X1000	5.1	1000	10	3.0
M1810D/5.1X100		100		
M1810D/5.1X125		125		
M1810D/5.1X160		160		
M1810D/5.1X200	5.2	200	10	3.0
M1810D/5.2X100		100		
M1810D/5.2X125		125		
M1810D/5.2X160		160		
M1810D/5.2X200	5.3	200	10	3.0
M1810D/5.3X100		100		
M1810D/5.3X125		125		
M1810D/5.3X160		160		
M1810D/5.3X200	5.4	200	10	3.0
M1810D/5.4X100		100		
M1810D/5.4X125		125		
M1810D/5.4X160		160		
M1810D/5.4X200	5.5	200	10	3.0
M1810D/5.5X100		100		
M1810D/5.5X125		125		
M1810D/5.5X160		160		
M1810D/5.5X200		200		
M1810D/5.5X250		250		
M1810D/5.5X315		315		
M1810D/5.5X400		400		
M1810D/5.5X500		500		
M1810D/5.5X630		630		
M1810D/5.5X800	5.6	800	10	3.0
M1810D/5.6X100		100		
M1810D/5.6X125		125		
M1810D/5.6X160		160		
M1810D/5.6X200	5.7	200	10	3.0
M1810D/5.7X100		100		
M1810D/5.7X125		125		
M1810D/5.7X160		160		
M1810D/5.7X200		200		

Sipariş Kodu	d1	L	d2	K
M1810D/5.8X100	5.8	100	10	3.0
M1810D/5.8X125		125		
M1810D/5.8X160		160		
M1810D/5.8X200		200		
M1810D/5.9X100	5.9	100	10	3.0
M1810D/5.9X125		125		
M1810D/5.9X160		160		
M1810D/5.9X200		200		
M1810D/6X100	6	100	12	5.0
M1810D/6X125		125		
M1810D/6X160		160		
M1810D/6X200		200		
M1810D/6X250		250		
M1810D/6X315		315		
M1810D/6X400		400		
M1810D/6X500		500		
M1810D/6X630		630		
M1810D/6X800		800		
M1810D/6X1000		1000		
M1810D/6.5X100	6.5	100	12	5.0
M1810D/6.5X125		125		
M1810D/6.5X160		160		
M1810D/6.5X200		200		
M1810D/6.5X250		250		
M1810D/6.5X315		315		
M1810D/6.5X400		400		
M1810D/6.5X500		500		
M1810D/6.5X630		630		
M1810D/6.5X800		800		
M1810D/7X100	7	100	12	5.0
M1810D/7X125		125		
M1810D/7X160		160		
M1810D/7X200		200		
M1810D/7X250		250		
M1810D/7X315		315		
M1810D/7X400		400		
M1810D/7X500		500		
M1810D/7X630		630		
M1810D/7X800	7.5	800	12	5.0
M1810D/7.5X100		100		
M1810D/7.5X125		125		
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M1810D/7.5X200		200		
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M1810D/7.5X630		630		
M1810D/7.5X800		800		
M1810D/8X100	8	100	14	5.0
M1810D/8X125		125		
M1810D/8X160		160		
M1810D/8X200		200		
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M1810D/8X315		315		
M1810D/8X400		400		
M1810D/8X500		500		
M1810D/8X630		630		
M1810D/8X800		800		

Sipariş Kodu	d1	L	d2	K
M1810D/8X1000	8	1000	14	5.0
M1810D/8.5X100	8.5	100	14	5.0
M1810D/8.5X125		125		
M1810D/8.5X160		160		
M1810D/8.5X200		200		
M1810D/8.5X250		250		
M1810D/8.5X315		315		
M1810D/8.5X400		400		
M1810D/8.5X500		500		
M1810D/8.5X630		630		
M1810D/8.5X800		800		
M1810D/9X100	9	100	14	5.0
M1810D/9X125		125		
M1810D/9X160		160		
M1810D/9X200		200		
M1810D/9X250		250		
M1810D/9X315		315		
M1810D/9X400		400		
M1810D/9X500		500		
M1810D/9X630		630		
M1810D/9X800		800		
M1810D/10X100	10	100	16	5.0
M1810D/10X125		125		
M1810D/10X160		160		
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M1810D/10X630		630		
M1810D/10X800		800		
M1810D/10X1000		1000		
M1810D/10.5X125	10.5	125	16	5.0
M1810D/10.5X160		160		
M1810D/10.5X200		200		
M1810D/10.5X250		250		
M1810D/10.5X315		315		
M1810D/10.5X400		400		
M1810D/10.5X500		500		
M1810D/10.5X630		630		
M1810D/10.5X800		800		
M1810D/11X100	11	100	16	5.0
M1810D/11X125		125		
M1810D/11X160		160		
M1810D/11X200		200		
M1810D/11X250		250		
M1810D/11X315		315		
M1810D/11X400		400		
M1810D/11X500		500		
M1810D/11X630		630		
M1810D/11X800		800		
M1810D/12X100	12	100	18	7.0
M1810D/12X125		125		
M1810D/12X160		160		
M1810D/12X200		200		
M1810D/12X250		250		
M1810D/12X315		315		
M1810D/12X400		400		
M1810D/12X500		500		
M1810D/12X630		630		

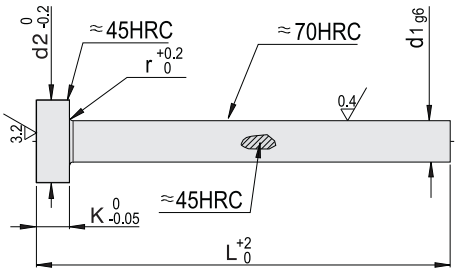
Sipariş Kodu	d1	L	d2	K
M1810D/12X800	12	800	18	7.0
M1810D/12X1000		1000		
M1810D/12.5X100	12.5	100	18	7.0
M1810D/12.5X125		125		
M1810D/12.5X160		160		
M1810D/12.5X200		200		
M1810D/12.5X250		250		
M1810D/12.5X315		315		
M1810D/12.5X400		400		
M1810D/12.5X500		500		
M1810D/13X100	13	100	22	7.0
M1810D/13X125		125		
M1810D/13X160		160		
M1810D/13X200		200		
M1810D/13X250		250		
M1810D/13X315		315		
M1810D/13X400		400		
M1810D/13X500		500		
M1810D/13X630		630		
M1810D/13X800		800		
M1810D/14X100	14	100	22	7.0
M1810D/14X125		125		
M1810D/14X160		160		
M1810D/14X200		200		
M1810D/14X250		250		
M1810D/14X315		315		
M1810D/14X400		400		
M1810D/14X500		500		
M1810D/14X630		630		
M1810D/14X800		800		
M1810D/14X1000		1000		
M1810D/16X100	16	100	22	7.0
M1810D/16X125		125		
M1810D/16X160		160		
M1810D/16X200		200		
M1810D/16X250		250		
M1810D/16X315		315		
M1810D/16X400		400		
M1810D/16X500		500		
M1810D/16X630		630		
M1810D/16X800		800		
M1810D/16X1000		1000		
M1810D/18X100	18	100	24	7.0
M1810D/18X125		125		
M1810D/18X160		160		
M1810D/18X200		200		
M1810D/18X250		250		
M1810D/18X315		315		
M1810D/18X400		400		
M1810D/18X500		500		
M1810D/18X630		630		
M1810D/18X800		800		
M1810D/18X1000		1000		
M1810D/20X100	20	100	26	8.0
M1810D/20X125		125		
M1810D/20X160		160		
M1810D/20X200		200		
M1810D/20X250		250		
M1810D/20X315		315		

Sipariş Kodu	d1	L	d2	K
M1810D/20X400	20	400	26	8.0
M1810D/20X500		500		
M1810D/20X630		630		
M1810D/20X800		800		
M1810D/20X1000		1000		
M1810D/25X125	25	125	32	10
M1810D/25X160		160		
M1810D/25X200		200		
M1810D/25X250		250		
M1810D/25X315		315		
M1810D/25X400		400		
M1810D/25X500		500		
M1810D/25X630		630		
M1810D/25X800		800		
M1810D/25X1000		1000		

M1815 Metal Enjeksiyon Silindir Başlı İtici Pimler

ISO 6751 (DIN 1530A) Form AH Mat.: 1.2344 Max. Isı Direnci 550°





Sipariş Kodu	d1	L	d2	K
M1815/1X100	1	100	2.5	1.2
M1815/1X125		125		
M1815/1X160		160		
M1815/1X200		200		
M1815/1X250		250		
M1815/1.5X100	1.5	100	3	1.5
M1815/1.5X125		125		
M1815/1.5X160		160		
M1815/1.5X200		200		
M1815/1.5X250		250		
M1815/2X100		100		
M1815/2X125	2	125	4	2
M1815/2X160		160		
M1815/2X200		200		
M1815/2X250		250		
M1815/2X315		315		
M1815/2X400		400		
M1815/2.5X100	2.5	100	5	2
M1815/2.5X125		125		
M1815/2.5X160		160		
M1815/2.5X200		200		
M1815/2.5X250		250		
M1815/2.5X315		315		
M1815/2.5X400		400		
M1815/3X100	3	100	6	3
M1815/3X125		125		
M1815/3X160		160		
M1815/3X200		200		
M1815/3X250		250		
M1815/3X315		315		
M1815/3X400		400		
M1815/3X500		500		
M1815/3.5X100	3.5	100	7	3
M1815/3.5X125		125		
M1815/3.5X160		160		
M1815/3.5X200		200		
M1815/3.5X250		250		
M1815/3.5X315		315		
M1815/3.5X400		400		
M1815/3.5X500		500		

Sipariş Kodu	d1	L	d2	K
M1815/4X100	4	100	8	3
M1815/4X125		125		
M1815/4X160		160		
M1815/4X200		200		
M1815/4X250		250		
M1815/4X315		315		
M1815/4X400		400		
M1815/4X500		500		
M1815/4X630		630		
M1815/4.5X100	4.5	100	8	3
M1815/4.5X125		125		
M1815/4.5X160		160		
M1815/4.5X200		200		
M1815/4.5X250		250		
M1815/4.5X315		315		
M1815/4.5X400		400		
M1815/4.5X500		500		
M1815/4.5X630		630		
M1815/5X100	5	100	10	3
M1815/5X125		125		
M1815/5X160		160		
M1815/5X200		200		
M1815/5X250		250		
M1815/5X315		315		
M1815/5X400		400		
M1815/5X500		500		
M1815/5X630		630		
M1815/5.5X100	5.5	100	10	3
M1815/5.5X125		125		
M1815/5.5X160		160		
M1815/5.5X200		200		
M1815/5.5X250		250		
M1815/5.5X315		315		
M1815/5.5X400		400		
M1815/5.5X500		500		
M1815/5.5X630		630		
M1815/6X100	6	100	12	5
M1815/6X125		125		
M1815/6X160		160		
M1815/6X200		200		

Sipariş Kodu	d1	L	d2	K
M1815/6X250	6	250	12	5
M1815/6X315		315		
M1815/6X400		400		
M1815/6X500		500		
M1815/6.5X100	6.5	100	12	5
M1815/6.5X125		125		
M1815/6.5X160		160		
M1815/6.5X200		200		
M1815/6.5X250		250		
M1815/6.5X315		315		
M1815/6.5X400		400		
M1815/6.5X500		500		
M1815/7X100	7	100	12	5
M1815/7X125		125		
M1815/7X160		160		
M1815/7X200		200		
M1815/7X250		250		
M1815/7X315		315		
M1815/7X400		400		
M1815/7X500		500		
M1815/7.5X100	7.5	100	12	5
M1815/7.5X125		125		
M1815/7.5X160		160		
M1815/7.5X200		200		
M1815/7.5X250		250		
M1815/7.5X315		315		
M1815/7.5X400		400		
M1815/7.5X500		500		
M1815/8X100	8	100	14	5
M1815/8X125		125		
M1815/8X160		160		
M1815/8X200		200		
M1815/8X250		250		
M1815/8X315		315		
M1815/8X400		400		
M1815/8X500		500		
M1815/8X630		630		
M1815/8.5X100	8.5	100	14	5

Sipariş Kodu	d1	L	d2	K
M1815/8.5X125	8.5	125	14	5
M1815/8.5X160		160		
M1815/8.5X200		200		
M1815/8.5X250		250		
M1815/8.5X315		315		
M1815/8.5X400		400		
M1815/8.5X500		500		
M1815/9X100	9	100	14	5
M1815/9X125		125		
M1815/9X160		160		
M1815/9X200		200		
M1815/9X250		250		
M1815/9X315		315		
M1815/9X400		400		
M1815/9X500		500		
M1815/10X100	10	100	16	5
M1815/10X125		125		
M1815/10X160		160		
M1815/10X200		200		
M1815/10X250		250		
M1815/10X315		315		
M1815/10X400		400		
M1815/10X500		500		
M1815/10X630		630		
M1815/10.5X100	10.5	100	16	5
M1815/10.5X125		125		
M1815/10.5X160		160		
M1815/10.5X200		200		
M1815/10.5X250		250		
M1815/10.5X315		315		
M1815/10.5X400		400		
M1815/10.5X500		500		
M1815/11X100	11	100	16	5
M1815/11X125		125		
M1815/11X160		160		
M1815/11X200		200		
M1815/11X250		250		
M1815/11X315		315		
M1815/11X400		400		
M1815/11X500		500		
M1815/11X630		630		
M1815/12X100	12	100	18	7
M1815/12X125		125		
M1815/12X160		160		
M1815/12X200		200		
M1815/12X250		250		
M1815/12X315		315		
M1815/12X400		400		
M1815/12X500		500		
M1815/12X630		630		
M1815/13X100	13	100	22	7
M1815/13X125		125		
M1815/13X160		160		

Sipariş Kodu	d1	L	d2	K
M1815/13X200	13	200	22	7
M1815/13X250		250		
M1815/13X315		315		
M1815/13X400		400		
M1815/13X500		500		
M1815/13X630		630		
M1815/14X100	14	100	22	7
M1815/14X125		125		
M1815/14X160		160		
M1815/14X200		200		
M1815/14X250		250		
M1815/14X315		315		
M1815/14X400		400		
M1815/14X500		500		
M1815/14X630		630		
M1815/16X100	16	100	22	7
M1815/16X125		125		
M1815/16X160		160		
M1815/16X200		200		
M1815/16X250		250		
M1815/16X315		315		
M1815/16X400		400		
M1815/16X500		500		
M1815/16X630		630		
M1815/18X100	18	100	24	7
M1815/18X125		125		
M1815/18X160		160		
M1815/18X200		200		
M1815/18X250		250		
M1815/18X315		315		
M1815/18X400		400		
M1815/18X500		500		
M1815/18X630		630		
M1815/20X100	20	100	26	8
M1815/20X125		125		
M1815/20X160		160		
M1815/20X200		200		
M1815/20X250		250		
M1815/20X315		315		
M1815/20X400		400		
M1815/20X500		500		
M1815/20X630		630		
M1815/25X100	25	100	32	10
M1815/25X125		125		
M1815/25X160		160		
M1815/25X200		200		
M1815/25X250		250		
M1815/25X315		315		
M1815/25X400		400		
M1815/25X500		500		
M1815/25X630		630		

M1815D Metal Enjeksiyon Silindir Başlı İtici Pimler DLC

ISO 6751 (DIN 1530A) Form AH Mat.: 1.2344 Max. Isı Direnci 550°

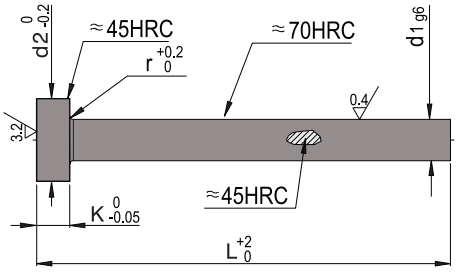


Elmas benzeri karbon(DLC)

Bu kaplama yağlama olmasa bile en yüksek aşınma koşullarına ve yüksek kayma hızlarına mükemmel uygunluktadır.

Sürtünme kayıplarını minimize ederler.

DLC kaplama aşınma tribo oksidasyon ve kaynaşma aşınmasına karşı mükemmel koruma sağlar.



Stoklarımızda tüm boylar ve ondalıklar mevcuttur.
Standart dışı özel ölçüler talep üzerine üretilir.

Sipariş Kodu	d1	L	d2	K
M1815D/1X100	1	100	2.5	1.2
M1815D/1X125		125		
M1815D/1X160		160		
M1815D/1X200		200		
M1815D/1X250		250		
M1815D/1.5X100	1.5	100	3	1.5
M1815D/1.5X125		125		
M1815D/1.5X160		160		
M1815D/1.5X200		200		
M1815D/1.5X250		250		
M1815D/2X100		100		
M1815D/2X125	2	125	4	2
M1815D/2X160		160		
M1815D/2X200		200		
M1815D/2X250		250		
M1815D/2X315		315		
M1815D/2X400		400		
M1815D/2.5X100	2.5	100	5	2
M1815D/2.5X125		125		
M1815D/2.5X160		160		
M1815D/2.5X200		200		
M1815D/2.5X250		250		
M1815D/2.5X315		315		
M1815D/2.5X400		400		
M1815D/3X100	3	100	6	3
M1815D/3X125		125		
M1815D/3X160		160		
M1815D/3X200		200		
M1815D/3X250		250		
M1815D/3X315		315		
M1815D/3X400		400		
M1815D/3X500		500		
M1815D/3.5X100	3.5	100	7	3
M1815D/3.5X125		125		
M1815D/3.5X160		160		
M1815D/3.5X200		200		
M1815D/3.5X250		250		
M1815D/3.5X315		315		
M1815D/3.5X400		400		
M1815D/3.5X500		500		

Sipariş Kodu	d1	L	d2	K
M1815D/4X100	4	100	8	3
M1815D/4X125		125		
M1815D/4X160		160		
M1815D/4X200		200		
M1815D/4X250		250		
M1815D/4X315		315		
M1815D/4X400		400		
M1815D/4X500		500		
M1815D/4X630		630		
M1815D/4.5X100	4.5	100	8	3
M1815D/4.5X125		125		
M1815D/4.5X160		160		
M1815D/4.5X200		200		
M1815D/4.5X250		250		
M1815D/4.5X315		315		
M1815D/4.5X400		400		
M1815D/4.5X500		500		
M1815D/4.5X630		630		
M1815D/5X100	5	100	10	3
M1815D/5X125		125		
M1815D/5X160		160		
M1815D/5X200		200		
M1815D/5X250		250		
M1815D/5X315		315		
M1815D/5X400		400		
M1815D/5X500		500		
M1815D/5X630		630		
M1815D/5.5X100	5.5	100	10	3
M1815D/5.5X125		125		
M1815D/5.5X160		160		
M1815D/5.5X200		200		
M1815D/5.5X250		250		
M1815D/5.5X315		315		
M1815D/5.5X400		400		
M1815D/5.5X500		500		
M1815D/5.5X630		630		
M1815D/6X100	6	100	12	5
M1815D/6X125		125		
M1815D/6X160		160		
M1815D/6X200		200		

Sipariş Kodu	d1	L	d2	K
M1815D/6X250	6	250	12	5
M1815D/6X315		315		
M1815D/6X400		400		
M1815D/6X500		500		
M1815D/6.5X100	6.5	100	12	5
M1815D/6.5X125		125		
M1815D/6.5X160		160		
M1815D/6.5X200		200		
M1815D/6.5X250		250		
M1815D/6.5X315		315		
M1815D/6.5X400		400		
M1815D/6.5X500		500		
M1815D/7X100	7	100	12	5
M1815D/7X125		125		
M1815D/7X160		160		
M1815D/7X200		200		
M1815D/7X250		250		
M1815D/7X315		315		
M1815D/7X400		400		
M1815D/7X500		500		
M1815D/7.5X100	7.5	100	12	5
M1815D/7.5X125		125		
M1815D/7.5X160		160		
M1815D/7.5X200		200		
M1815D/7.5X250		250		
M1815D/7.5X315		315		
M1815D/7.5X400		400		
M1815D/7.5X500		500		
M1815D/8X100	8	100	14	5
M1815D/8X125		125		
M1815D/8X160		160		
M1815D/8X200		200		
M1815D/8X250		250		
M1815D/8X315		315		
M1815D/8X400		400		
M1815D/8X500		500		
M1815D/8X630		630		
M1815D/8.5X100	8.5	100	14	5

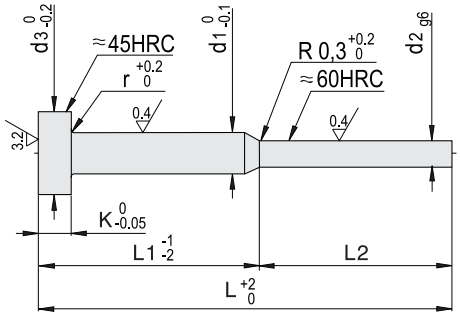
Sipariş Kodu	d1	L	d2	K
M1815D/8.5X125	8.5	125	14	5
M1815D/8.5X160		160		
M1815D/8.5X200		200		
M1815D/8.5X250		250		
M1815D/8.5X315		315		
M1815D/8.5X400		400		
M1815D/8.5X500		500		
M1815D/9X100	9	100	14	5
M1815D/9X125		125		
M1815D/9X160		160		
M1815D/9X200		200		
M1815D/9X250		250		
M1815D/9X315		315		
M1815D/9X400		400		
M1815D/9X500		500		
M1815D/10X100	10	100	16	5
M1815D/10X125		125		
M1815D/10X160		160		
M1815D/10X200		200		
M1815D/10X250		250		
M1815D/10X315		315		
M1815D/10X400		400		
M1815D/10X500		500		
M1815D/10X630		630		
M1815D/10.5X100	10.5	100	16	5
M1815D/10.5X125		125		
M1815D/10.5X160		160		
M1815D/10.5X200		200		
M1815D/10.5X250		250		
M1815D/10.5X315		315		
M1815D/10.5X400		400		
M1815D/10.5X500		500		
M1815D/11X100	11	100	16	5
M1815D/11X125		125		
M1815D/11X160		160		
M1815D/11X200		200		
M1815D/11X250		250		
M1815D/11X315		315		
M1815D/11X400		400		
M1815D/11X500		500		
M1815D/11X630		630		
M1815D/12X100	12	100	18	7
M1815D/12X125		125		
M1815D/12X160		160		
M1815D/12X200		200		
M1815D/12X250		250		
M1815D/12X315		315		
M1815D/12X400		400		
M1815D/12X500		500		
M1815D/12X630		630		
M1815D/13X100	13	100	22	7
M1815D/13X125		125		
M1815D/13X160		160		

Sipariş Kodu	d1	L	d2	K
M1815D/13X200	13	200	22	7
M1815D/13X250		250		
M1815D/13X315		315		
M1815D/13X400		400		
M1815D/13X500		500		
M1815D/13X630		630		
M1815D/14X100	14	100	22	7
M1815D/14X125		125		
M1815D/14X160		160		
M1815D/14X200		200		
M1815D/14X250		250		
M1815D/14X315		315		
M1815D/14X400		400		
M1815D/14X500		500		
M1815D/14X630		630		
M1815D/16X100	16	100	22	7
M1815D/16X125		125		
M1815D/16X160		160		
M1815D/16X200		200		
M1815D/16X250		250		
M1815D/16X315		315		
M1815D/16X400		400		
M1815D/16X500		500		
M1815D/16X630		630		
M1815D/18X100	18	100	24	7
M1815D/18X125		125		
M1815D/18X160		160		
M1815D/18X200		200		
M1815D/18X250		250		
M1815D/18X315		315		
M1815D/18X400		400		
M1815D/18X500		500		
M1815D/18X630		630		
M1815D/20X100	20	100	26	8
M1815D/20X125		125		
M1815D/20X160		160		
M1815D/20X200		200		
M1815D/20X250		250		
M1815D/20X315		315		
M1815D/20X400		400		
M1815D/20X500		500		
M1815D/20X630		630		
M1815D/25X100	25	100	32	10
M1815D/25X125		125		
M1815D/25X160		160		
M1815D/25X200		200		
M1815D/25X250		250		
M1815D/25X315		315		
M1815D/25X400		400		
M1815D/25X500		500		
M1815D/25X630		630		

M1820 Plastik Enjeksiyon Silindir Başlı Kademeli İtici Pimler

ISO 8694 (DIN 1530 C) Form CH Mat.: 1.2210 Max. Isı Direnci 220°





Standart dışı özel ölçüler talep üzerine üretilir.

Sipariş Kodu	d1	L	L1	d3	d2	K
M1820/0.8X63	0.8	63	25	2	4	2
M1820/0.8X80		80	35			
M1820/0.8X100		100	50			
M1820/0.8X125		125				
M1820/0.8X160		160	75			
M1820/1X63	1	63	25	2	4	2
M1820/1X80		80	35			
M1820/1X100		100	50			
M1820/1X125		125				
M1820/1X150		150				
M1820/1X160		160	75			
M1820/1X200		200				
M1820/1.1X63	1.1	63	25	2	4	2
M1820/1.1X80		80	35			
M1820/1.1X100		100	50			
M1820/1.1X125		125				
M1820/1.1X150		150				
M1820/1.1X160		160	75			
M1820/1.2X63	1.2	63	25	2	4	2
M1820/1.2X80		80	35			
M1820/1.2X100		100	50			
M1820/1.2X125		125				
M1820/1.2X150		150				
M1820/1.2X160		160	75			
M1820/1.3X63	1.3	63	25	2	4	2
M1820/1.3X80		80	35			
M1820/1.3X100		100	50			
M1820/1.3X125		125				
M1820/1.3X150		150				
M1820/1.3X160		160	75			
M1820/1.4X63	1.4	63	25	2	4	2
M1820/1.4X80		80	35			
M1820/1.4X100		100	50			
M1820/1.4X125		125				
M1820/1.4X150		150				
M1820/1.4X160		160	75			
M1820/1.5X63	1.5	63	25	3	6	3
M1820/1.5X80		80	35			
M1820/1.5X100		100	50			

Sipariş Kodu	d1	L	L1	d3	d2	K
M1820/1.5X125	1.5	125	50	3	6	3
M1820/1.5X150		150				
M1820/1.5X160		160	75			
M1820/1.5X200		200				
M1820/1.6X80	1.6	80	35	3	6	3
M1820/1.6X100		100				
M1820/1.6X125		125	50			
M1820/1.6X150		150				
M1820/1.6X160		160	75			
M1820/1.6X200		200				
M1820/1.7X80	1.7	80	35	3	6	3
M1820/1.7X100		100				
M1820/1.7X125		125	50			
M1820/1.7X150		150				
M1820/1.7X160		160	75			
M1820/1.7X200		200				
M1820/1.8X80	1.8	80	35	3	6	3
M1820/1.8X100		100				
M1820/1.8X125		125	50			
M1820/1.8X150		150				
M1820/1.8X160		160	75			
M1820/1.8X200		200				
M1820/2X80	2	80	35	3	6	3
M1820/2X100		100				
M1820/2X125		125	50			
M1820/2X150		150				
M1820/2X160		160	75			
M1820/2X200		200				
M1820/2.2X80	2.2	80	35	3	6	3
M1820/2.2X100		100				
M1820/2.2X125		125	50			
M1820/2.2X150		150				
M1820/2.2X160		160	75			
M1820/2.2X200		200				
M1820/2.5X100	2.5	100	50	3	6	3
M1820/2.5X125		125				
M1820/2.5X150		150				
M1820/2.5X160		160	75			
M1820/2.5X200		200				

Sipariş Kodu	d1	L	L1	d3	d2	K
M1820/2.6X100	2.6	100	50	3	6	3
M1820/2.6X125		125				
M1820/2.6X150		150				
M1820/2.6X160		160	75			
M1820/2.6X200		200				
M1820/2.7X100	2.7	100	50	3	6	3
M1820/2.7X125		125				
M1820/2.7X150		150				
M1820/2.7X160		160	75			
M1820/2.7X200		200				
M1820/2.8X100	2.8	100	50	3	6	3
M1820/2.8X125		125				
M1820/2.8X150		150				
M1820/2.8X160		160	75			
M1820/2.8X200		200				

M1820D Metal Enjeksiyon Silindir Başlı Kademeli İtici Pimler DLC

ISO 8694 (DIN 1530C) Mat.: 1.2344 Max. Isı Direnci 550°

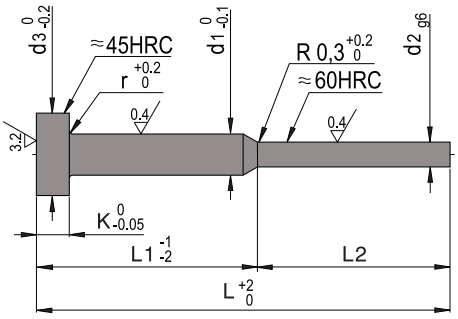


Elmas benzeri karbon(DLC)

Bu kaplama yağlama olmasa bile en yüsek aşınma koşullarına ve yüksek kayma hızlarına mükemmel uygunluktadır.

Sürtünme kayıplarını minimize ederler.

DLC kaplama aşınma tribo oksidasyon ve kaynaşma aşınmasına karşı mükemmel koruma sağlar.



Standart dışı özel ölçüler talep üzerine üretilir.

Sipariş Kodu	d1	L	L1	d3	d2	K
M1820D/0.8X63	0.8	63	25	2	4	2
M1820D/0.8X80		80	35			
M1820D/0.8X100		100	50			
M1820D/0.8X125		125				
M1820D/0.8X160		160	75			
M1820D/1X63	1	63	25	2	4	2
M1820D/1X80		80	35			
M1820D/1X100		100	50			
M1820D/1X125		125				
M1820D/1X150		150				
M1820D/1X160		160	75			
M1820D/1X200		200				
M1820D/1.1X63	1.1	63	25	2	4	2
M1820D/1.1X80		80	35			
M1820D/1.1X100		100	50			
M1820D/1.1X125		125				
M1820D/1.1X150		150				
M1820D/1.1X160		160	75			
M1820D/1.2X63	1.2	63	25	2	4	2
M1820D/1.2X80		80	35			
M1820D/1.2X100		100	50			
M1820D/1.2X125		125				
M1820D/1.2X150		150				
M1820D/1.2X160		160	75			
M1820D/1.3X63	1.3	63	25	2	4	2
M1820D/1.3X80		80	35			
M1820D/1.3X100		100	50			
M1820D/1.3X125		125				
M1820D/1.3X150		150				
M1820D/1.3X160		160	75			
M1820D/1.4X63	1.4	63	25	2	4	2
M1820D/1.4X80		80	35			
M1820D/1.4X100		100	50			
M1820D/1.4X125		125				
M1820D/1.4X150		150				
M1820D/1.4X160		160	75			
M1820D/1.5X63	1.5	63	25	3	6	3
M1820D/1.5X80		80	35			
M1820D/1.5X100		100	50			

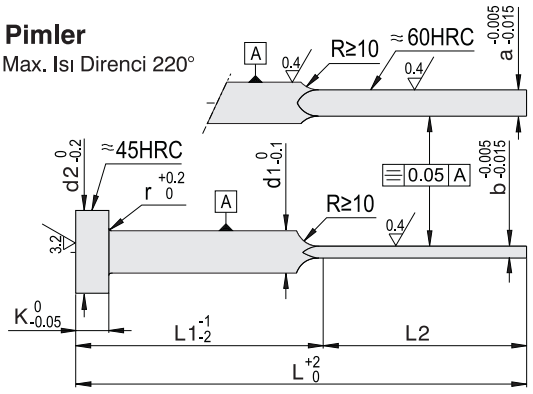
Sipariş Kodu	d1	L	L1	d3	d2	K
M1820D/1.5X125	1.5	125	50	3	6	3
M1820D/1.5X150		150				
M1820D/1.5X160		160	75			
M1820D/1.5X200		200				
M1820D/1.6X80	1.6	80	35	3	6	3
M1820D/1.6X100		100				
M1820D/1.6X125		125	50			
M1820D/1.6X150		150				
M1820D/1.6X160		160	75			
M1820D/1.6X200		200				
M1820D/1.7X80	1.7	80	35	3	6	3
M1820D/1.7X100		100	50			
M1820D/1.7X125		125				
M1820D/1.7X150		150				
M1820D/1.7X160		160	75			
M1820D/1.7X200		200				
M1820D/1.8X80	1.8	80	35	3	6	3
M1820D/1.8X100		100	50			
M1820D/1.8X125		125				
M1820D/1.8X150		150				
M1820D/1.8X160		160	75			
M1820D/1.8X200		200				
M1820D/2X80	2	80	35	3	6	3
M1820D/2X100		100	50			
M1820D/2X125		125				
M1820D/2X150		150				
M1820D/2X160		160	75			
M1820D/2X200		200				
M1820D/2.2X80	2.2	80	35	3	6	3
M1820D/2.2X100		100	50			
M1820D/2.2X125		125				
M1820D/2.2X150		150				
M1820D/2.2X160		160	75			
M1820D/2.2X200		200				
M1820D/2.5X100	2.5	100	50	3	6	3
M1820D/2.5X125		125				
M1820D/2.5X150		150				
M1820D/2.5X160		160	75			
M1820D/2.5X200		200				

Sipariş Kodu	d1	L	L1	d3	d2	K
M1820D/2.6X100	2.6	100	50	3	6	3
M1820D/2.6X125		125				
M1820D/2.6X150		150				
M1820D/2.6X160		160	75			
M1820D/2.6X200		200				
M1820D/2.7X100	2.7	100	50	3	6	3
M1820D/2.7X125		125				
M1820D/2.7X150		150				
M1820D/2.7X160		160	75			
M1820D/2.7X200		200				
M1820D/2.8X100	2.8	100	50	3	6	3
M1820D/2.8X125		125				
M1820D/2.8X150		150				
M1820D/2.8X160		160	75			
M1820D/2.8X200		200				

M1825A Plastik Enjeksiyon Silindir Başlı Lama İtici Pimler

ISO 8693 (DIN 1530 F) Form FAH Mat.: 1.2210 Max. Isı Direnci 220°





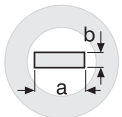
Standart dışı özel ölçüler talep üzerine üretilir.

Sipariş Kodu	b	a	L	L1	d1	d2	K
M1825A/0.8X3.5X80	0.8	3.5	80	40	4	8	3
M1825A/0.8X3.5X100			100	50			
M1825A/0.8X3.5X125			125	60			
M1825A/1X4.5X80	1	4.5	80	40	5	10	3
M1825A/1X4.5X100			100	50			
M1825A/1X4.5X125			125	60			
M1825A/1X4.5X160			160	80			
M1825A/1X5.5X80	1	5.5	80	40	6	12	5
M1825A/1X5.5X100			100	50			
M1825A/1X5.5X125			125	60			
M1825A/1X5.5X160			160	80			
M1825A/1.2X3.5X80	1.2	3.5	80	40	4	8	3
M1825A/1.2X3.5X100			100	50			
M1825A/1.2X3.5X125			125	60			
M1825A/1.2X3.5X160			160	80			
M1825A/1.2X3.5X200			200	100			
M1825A/1.2X4.5X80	1.2	4.5	80	40	5	10	3
M1825A/1.2X4.5X100			100	50			
M1825A/1.2X4.5X125			125	60			
M1825A/1.2X4.5X160			160	80			
M1825A/1.2X4.5X200			200	100			
M1825A/1.2X5.5X80	1.2	5.5	80	40	6	12	5
M1825A/1.2X5.5X100			100	50			
M1825A/1.2X5.5X125			125	60			
M1825A/1.2X5.5X160			160	80			
M1825A/1.2X5.5X200			200	100			
M1825A/1.2X7.5X80	1.2	7.5	80	40	8	14	5
M1825A/1.2X7.5X100			100	50			
M1825A/1.2X7.5X125			125	60			
M1825A/1.2X7.5X160			160	80			
M1825A/1.2X7.5X200			200	100			
M1825A/1.5X4.5X100	1.5	4.5	100	50	5	10	3
M1825A/1.5X4.5X125			125	60			
M1825A/1.5X4.5X160			160	80			
M1825A/1.5X4.5X200			200	100			
M1825A/1.5X5.5X100	1.5	5.5	100	50	6	12	5
M1825A/1.5X5.5X125			125	60			
M1825A/1.5X5.5X160			160	80			
M1825A/1.5X5.5X200			200	100			

Sipariş Kodu	b	a	L	L1	d1	d2	K
M1825A/1.5X7.5X125	1.5	7.5	125	60	8	14	5
M1825A/1.5X7.5X160			160	80			
M1825A/1.5X7.5X200			200	100			
M1825A/1.5X7.5X250			250	125			
M1825A/1.5X9.5X160	1.5	9.5	160	80	10	16	5
M1825A/1.5X9.5X200			200	100			
M1825A/1.5X9.5X250			250	125			
M1825A/2X5.5X100	2	5.5	100	50	6	12	5
M1825A/2X5.5X125			125	60			
M1825A/2X5.5X160			160	80			
M1825A/2X5.5X200			200	100			
M1825A/2X7.5X160	2	7.5	160	80	8	14	5
M1825A/2X7.5X200			200	100			
M1825A/2X7.5X250			250	125			
M1825A/2X9.5X200	2	9.5	200	100	10	16	5
M1825A/2X9.5X250			250	125			
M1825A/2X9.5X315			315	160			
M1825A/2X11.5X200	2	11.5	200	100	12	18	7
M1825A/2X11.5X250			250	125			
M1825A/2X11.5X315			315	160			
M1825A/2.5X11.5X200	2.5	11.5	200	100	12	18	7
M1825A/2.5X11.5X250			250	125			
M1825A/2.5X11.5X315			315	160			

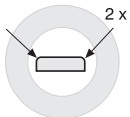
TALEBE GÖRE Lama İticiye ait Lama Kısmın Köşe Radyüs Tiplemeleri

STANDART / STOK



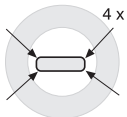
Keskin Köşeli **Tip.A** **M1825A**

TALEBE GÖRE



2 Köşeli Radyüs **Tip.B** **M1815B**

TALEBE GÖRE



4 Köşeli Radyüs **Tip.C** **M1815C**

DEVPA Kalıp Elemanları

M1825AD Plastik Enjeksiyon Silindir Başlı Lama İtici Pimler DLC

ISO 8693 (DIN 1530 F) Form FAH Mat.: 1.2210 Max. Isı Direnci 220°

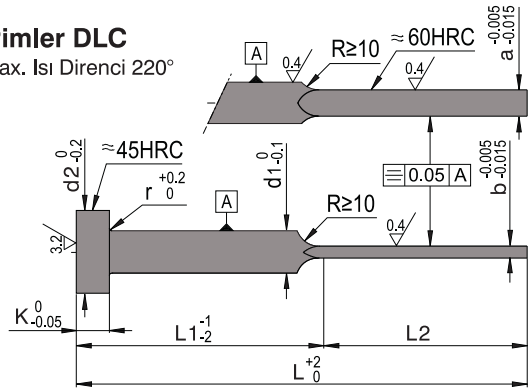


Elmas benzeri karbon(DLC)

Bu kaplama yağlama olmasa bile en yüksek aşınma koşullarına ve yüksek kayma hızlarına mükemmel uygunluktadır.

Sürtünme kayıplarını minimize ederler.

DLC kaplama aşınma tribo oksidasyon ve kaynaşma aşınmasına karşı mükemmel koruma sağlar.



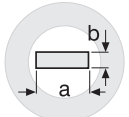
Standart dışı özel ölçüler talep üzerine üretilir.

Sipariş Kodu	b	a	L	L1	d1	d2	K
M1825AD/0.8X3.5X80			**80**	40			
M1825AD/0.8X3.5X100	**0.8**	**3.5**	**100**	50	4	8	3
M1825AD/0.8X3.5X125			**125**	60			
M1825AD/1X4.5X80			**80**	40			
M1825AD/1X4.5X100	**1**	**4.5**	**100**	50	5	10	3
M1825AD/1X4.5X125			**125**	60			
M1825AD/1X4.5X160			**160**	80			
M1825AD/1X5.5X80			**80**	40			
M1825AD/1X5.5X100	**1**	**5.5**	**100**	50	6	12	5
M1825AD/1X5.5X125			**125**	60			
M1825AD/1X5.5X160			**160**	80			
M1825AD/1.2X3.5X80			**80**	40			
M1825AD/1.2X3.5X100			**100**	50			
M1825AD/1.2X3.5X125	**1.2**	**3.5**	**125**	60	4	8	3
M1825AD/1.2X3.5X160			**160**	80			
M1825AD/1.2X3.5X200			**200**	100			
M1825AD/1.2X4.5X80			**80**	40			
M1825AD/1.2X4.5X100			**100**	50			
M1825AD/1.2X4.5X125	**1.2**	**4.5**	**125**	60	5	10	3
M1825AD/1.2X4.5X160			**160**	80			
M1825AD/1.2X4.5X200			**200**	100			
M1825AD/1.2X5.5X80			**80**	40			
M1825AD/1.2X5.5X100			**100**	50			
M1825AD/1.2X5.5X125	**1.2**	**5.5**	**125**	60	6	12	5
M1825AD/1.2X5.5X160			**160**	80			
M1825AD/1.2X5.5X200			**200**	100			
M1825AD/1.2X7.5X80			**80**	40			
M1825AD/1.2X7.5X100			**100**	50			
M1825AD/1.2X7.5X125	**1.2**	**7.5**	**125**	60	8	14	5
M1825AD/1.2X7.5X160			**160**	80			
M1825AD/1.2X7.5X200			**200**	100			
M1825AD/1.5X4.5X100			**100**	50			
M1825AD/1.5X4.5X125	**1.5**	**4.5**	**125**	60	5	10	3
M1825AD/1.5X4.5X160			**160**	80			
M1825AD/1.5X4.5X200			**200**	100			
M1825AD/1.5X5.5X100			**100**	50			
M1825AD/1.5X5.5X125	**1.5**	**5.5**	**125**	60	6	12	5
M1825AD/1.5X5.5X160			**160**	80			
M1825AD/1.5X5.5X200			**200**	100			

Sipariş Kodu	b	a	L	L1	d1	d2	K
M1825AD/1.5X7.5X125			**125**	60			
M1825AD/1.5X7.5X160	**1.5**	**7.5**	**160**	80	8	14	5
M1825AD/1.5X7.5X200			**200**	100			
M1825AD/1.5X7.5X250			**250**	125			
M1825AD/1.5X9.5X160			**160**	80			
M1825AD/1.5X9.5X200	**1.5**	**9.5**	**200**	100	10	16	5
M1825AD/1.5X9.5X250			**250**	125			
M1825AD/2X5.5X100			**100**	50			
M1825AD/2X5.5X125	**2**	**5.5**	**125**	60	6	12	5
M1825AD/2X5.5X160			**160**	80			
M1825AD/2X5.5X200			**200**	100			
M1825AD/2X7.5X160			**160**	80			
M1825AD/2X7.5X200	**2**	**7.5**	**200**	100	8	14	5
M1825AD/2X7.5X250			**250**	125			
M1825AD/2X9.5X200			**200**	100			
M1825AD/2X9.5X250	**2**	**9.5**	**250**	125	10	16	5
M1825AD/2X9.5X315			**315**	160			
M1825AD/2X11.5X200			**200**	100			
M1825AD/2X11.5X250	**2**	**11.5**	**250**	125	12	18	7
M1825AD/2X11.5X315			**315**	160			
M1825AD/2.5X11.5X200			**200**	100			
M1825AD/2.5X11.5X250	**2.5**	**11.5**	**250**	125	12	18	7
M1825AD/2.5X11.5X315			**315**	160			

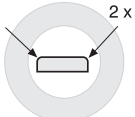
TALEBE GÖRE Lama İticiye ait Lama Kısmın Köşe Radyüs Tiplemeleri

STANDART / STOK



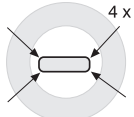
Keskin Köşeli **Tip.A** **M1825AD**

TALEBE GÖRE



2 Köşeli Radyüs **Tip.B** **M1825BD**

TALEBE GÖRE

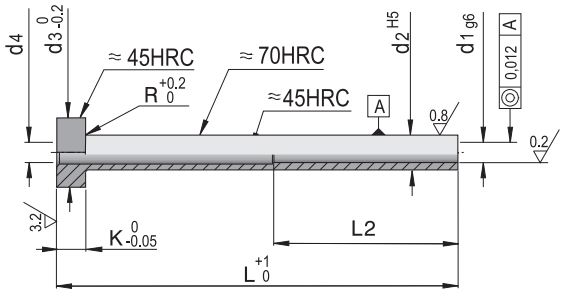


4 Köşeli Radyüs **Tip.C** **M1825CD**

M1830 Metal Enjeksiyon Silindir Başlı Boru İtici Pimler

ISO 8405 (DIN 16756) Mat.: 1.2344 Max. Isı Direnci 550°





Standart dışı özel ölçüler talep üzerine üretilir.

Sipariş Kodu	d1	d2	L	L2	d4	d3	K	R
M1830/1.5X3X75	1.5	3	75	30	2	6	3	0.3
M1830/1.5X3X100			100					
M1830/1.5X3X125			125					
M1830/1.5X3X150			150					
M1830/2X4X75	2	4	75	35	2.3	8	3	0.3
M1830/2X4X100			100					
M1830/2X4X125			125					
M1830/2X4X150			150					
M1830/2X4X175			175					
M1830/2X4X200			200					
M1830/2X4X225			225					
M1830/2X4X250			250					
M1830/2X4X275			275					
M1830/2X4X300			300					
M1830/2.5X5X75	2.5	5	75	35	3	10	3	0.3
M1830/2.5X5X100			100					
M1830/2.5X5X125			125					
M1830/2.5X5X150			150					
M1830/2.5X5X175			175					
M1830/2.5X5X200			200					
M1830/2.5X5X225			225					
M1830/2.5X5X250			250					
M1830/2.5X5X275			275					
M1830/2.5X5X300			300					
M1830/3X5X75	3	5	75	45	3.3	10	3	0.3
M1830/3X5X100			100					
M1830/3X5X125			125					
M1830/3X5X150			150					
M1830/3X5X175			175					
M1830/3X5X200			200					
M1830/3X5X225			225					
M1830/3X5X250			250					
M1830/3X5X275			275					
M1830/3X5X300			300					
M1830/3.5X6X75	3.5	6	75	45	4	12	5	0.5
M1830/3.5X6X100			100					
M1830/3.5X6X125			125					
M1830/3.5X6X150			150					
M1830/3.5X6X175			175					

Sipariş Kodu	d1	d2	L	L2	d4	d3	K	R
M1830/3.5X6X200	3.5	6	200	45	4	12	5	0.5
M1830/3.5X6X225			225					
M1830/3.5X6X250			250					
M1830/3.5X6X275			275					
M1830/3.5X6X300			300					
M1830/3.5X7X75	3.5	7	75	45	4	12	5	0.5
M1830/3.5X7X100			100					
M1830/3.5X7X125			125					
M1830/3.5X7X150			150					
M1830/3.5X7X175			175					
M1830/3.5X7X200			200					
M1830/4X6X75	4	6	75	45	4.3	12	5	0.5
M1830/4X6X100			100					
M1830/4X6X125			125					
M1830/4X6X150			150					
M1830/4X6X175			175					
M1830/4X6X200			200					
M1830/4X6X225			225					
M1830/4X6X250			250					
M1830/4X6X275			275					
M1830/4X6X300			300					
M1830/4X6X350			350					
M1830/4X6X400			400					
M1830/4X6X450			450					
M1830/4X6X500			500					
M1830/5X8X75	5	8	75	45	5.3	14	5	0.5
M1830/5X8X100			100					
M1830/5X8X125			125					
M1830/5X8X150			150					
M1830/5X8X175			175					
M1830/5X8X200			200					
M1830/5X8X225			225					
M1830/5X8X250			250					
M1830/5X8X275			275					
M1830/5X8X300			300					
M1830/5X8X350			350					
M1830/5X8X400			400					
M1830/5X8X450			450					
M1830/5X8X500			500					

Sipariş Kodu	d1	d2	L	L2	d4	d3	K	R
M1830/6X10X75	6	10	75	45	6.3	16	5	0.5
M1830/6X10X100			100					
M1830/6X10X125			125					
M1830/6X10X150			150					
M1830/6X10X175			175					
M1830/6X10X200			200					
M1830/6X10X225			225					
M1830/6X10X250			250					
M1830/6X10X275			275					
M1830/6X10X300			300					
M1830/6X10X350			350					
M1830/6X10X400			400					
M1830/6X10X450			450					
M1830/6X10X500			500					
M1830/8X12X75	8	12	75	45	8.3	20	7	0.8
M1830/8X12X100			100					
M1830/8X12X125			125					
M1830/8X12X150			150					
M1830/8X12X175			175					
M1830/8X12X200			200					
M1830/8X12X225			225					
M1830/8X12X250			250					
M1830/8X12X275			275					
M1830/8X12X300			300					
M1830/8X12X350			350					
M1830/8X12X400			400					
M1830/8X12X450			450					
M1830/8X12X500			500					

Sipariş Kodu	d1	d2	L	L2	d4	d3	K	R
M1830/10X14X75	10	14	75	50	10.3	22	7	0.8
M1830/10X14X100			100					
M1830/10X14X125			125					
M1830/10X14X150			150					
M1830/10X14X175			175					
M1830/10X14X200			200					
M1830/10X14X225			225					
M1830/10X14X250			250					
M1830/10X14X275			275					
M1830/10X14X300			300					
M1830/10X14X350			350					
M1830/10X14X400			400					
M1830/10X14X450			450					
M1830/10X14X500			500					
M1830/12X16X75	12	16	75	50	12.3	22	7	0.8
M1830/12X16X100			100					
M1830/12X16X125			125					
M1830/12X16X150			150					
M1830/12X16X175			175					
M1830/12X16X200			200					
M1830/12X16X225			225					
M1830/12X16X250			250					
M1830/12X16X275			275					
M1830/12X16X300			300					
M1830/12X16X350			350					
M1830/12X16X400			400					
M1830/12X16X450			450					
M1830/12X16X500			500					

ONDALIK GRUP

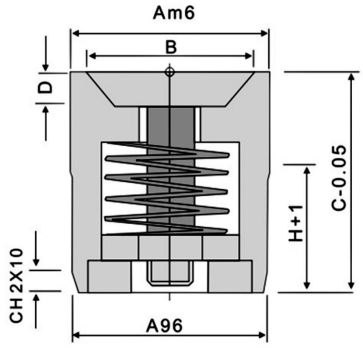
Sipariş Kodu	d1	d2	L	L2	d4	d3	K	R
M1830/3.2X5X100	3.2	5	100	45	3.5	10	3	0.3
M1830/3.2X5X125			125					
M1830/3.2X5X150			150					
M1830/3.2X5X175			175					
M1830/3.2X5X200			200					
M1830/3.2X5X225			225					
M1830/3.2X5X250			250					
M1830/3.2X5X275			275					
M1830/3.2X5X300			300					
M1830/4.2X8X100	4.2	8	100	45	4.5	14	5	0.5
M1830/4.2X8X125			125					
M1830/4.2X8X150			150					
M1830/4.2X8X175			175					
M1830/4.2X8X200			200					
M1830/4.2X8X225			225					
M1830/4.2X8X250			250					
M1830/4.2X8X275			275					
M1830/4.2X8X300			300					
M1830/5.2X8X100	5.2	8	100	45	5.5	14	5	0.5
M1830/5.2X8X125			125					
M1830/5.2X8X150			150					
M1830/5.2X8X175			175					
M1830/5.2X8X200			200					
M1830/5.2X8X225			225					

Sipariş Kodu	d1	d2	L	L2	d4	d3	K	R
M1830/5.2X8X250	5.2	8	250	45	5.5	14	5	0.5
M1830/5.2X8X275			275					
M1830/5.2X8X300			300					
M1830/6.2X10X100	6.2	10	100	45	6.5	16	5	0.5
M1830/6.2X10X125			125					
M1830/6.2X10X150			150					
M1830/6.2X10X175			175					
M1830/6.2X10X200			200					
M1830/6.2X10X225			225					
M1830/6.2X10X250			250					
M1830/6.2X10X275			275					
M1830/6.2X10X300			300					
M1830/8.2X12X100	8.2	12	100	45	8.5	20	7	0.8
M1830/8.2X12X125			125					
M1830/8.2X12X150			150					
M1830/8.2X12X175			175					
M1830/8.2X12X200			200					
M1830/8.2X12X225			225					
M1830/8.2X12X250			250					
M1830/8.2X12X275			275					
M1830/8.2X12X300			300					

M1833 Havalı İtici Valf

Mat.: INOX 1.4034 Çalışma Basıncı: 1,5 - 6 Bar



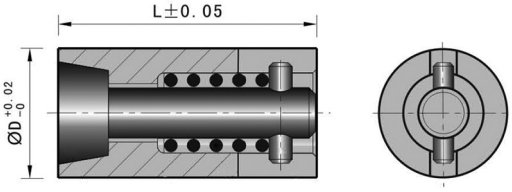


Sipariş Kodu	A	B	C	D	E	H
M1833/5	5	3	12	1.5	4	7
M1833/6	6	5.2	12	1.5	4	7
M1833/8	8	6.5	12	1.5	4	7
M1833/10	10	8	12	2.0	8	7
M1833/12	12	10	12	2.5	10	7
M1833/16	16	13	20	3.0	12	12
M1833/20	20	17	20	3.5	16	12

M1835 Havalı İtici Valf Jet Tip

Mat.: INOX 1.4034 Çalışma Basıncı: 3 - 10 Bar



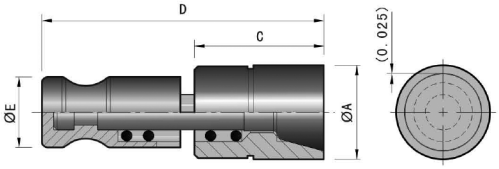


Sipariş Kodu	D	L	A	C
M1835/6	6	12	6	4.2
M1835/8	8	15	8	6
M1835/10	10	20	10	8
M1835/12	12	25	12	10
M1835/16	16	30	16	14
M1835/20	20	30	20	18
M1835/25	25	30	25	22

M1837 Havalı İtici Valf Pimli Tip

Mat.: 1.4031 Çalışma Basıncı: 2 - 9 Bar



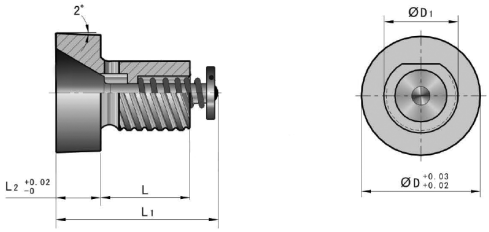


Sipariş Kodu	A	B	C	D	E
M1837/8	8	6.6	11	28	6
M1837/10	10	8.0	11	29	7
M1837/12	12	9.7	11	29	8
M1837/16	16	13.0	20	40	11
M1837/18	18	14.8	20	40	11
M1837/20	20	16.0	20	41	11
M1837/25	25	20.0	20	44	14

M1838 Havalı İtici Valf Şapkalı Tip

Mat.: 1.4031 Çalışma Basıncı: 2 - 9 Bar

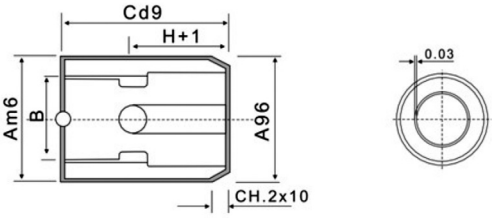




Sipariş Kodu	D	D1	L	L1	L2
M1838/8	8	6	8	16	5
M1838/12	12	8	13	21	
M1838/16	16	10	12	22	6

M1839 Havalı İtici Valf Çift Yönlü





Sipariş Kodu	A	B	C	E
M1839/8	8	5	12	4
M1839/10	10	6	12	5
M1839/12	12	8	12	7
M1839/16	16	10	20	9

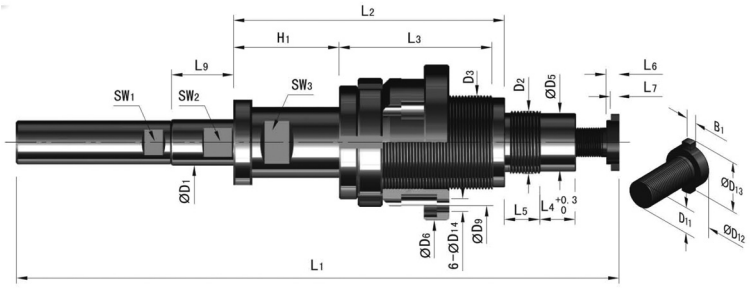
İtici Sistemler



M2000 İki Aşamalı İtici Sistem

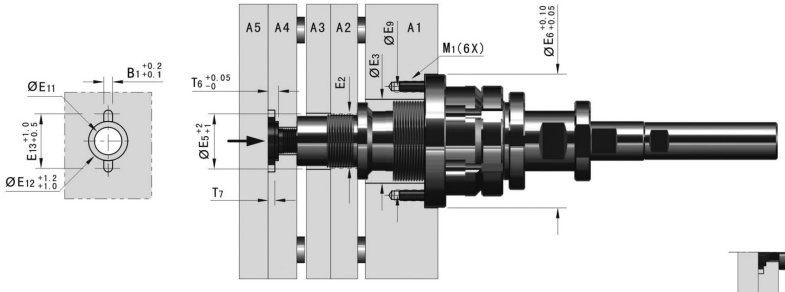
Mat.: 1.7131 (16MnCr5) 56-58 HRC

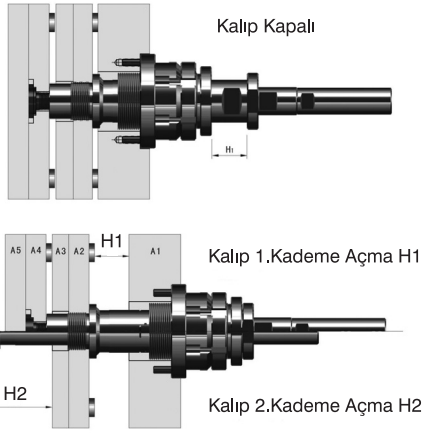




Sipariş Kodu	D2	D3	D5	D6	D9	D11	D12	D13	D14	B1	Sw1	Sw2	Sw3
M2000/13	M20x1	M28x1.5	18.5	50	41.6	M 8x0.75	13.4	17.6	4.3	3.2	10	110	17
M2000/17	M24x1.5	M35x1.5	22	60	48	M11x1	17.4	22	5.4	4	13	12	21
M2000/22	M30x1.5	M45x1.5	28	75	61	M14x1	21	27	6.5	5	17	17	27
M2000/30	M40x1.5	M60x1.5	38	100	82	M18x1	26	33	8.8	6	24	22	36
M2000/40	M55x1.5	M75x1.5	52	125	104	M25x1.5	35	43	11	8	32	32	46
M2000/52	M72x1.5	M98x1.5	69	150	128	M34x1.5	48	58	11	9	41	41	65

Sipariş Kodu	D1	L1	L2	L3	L4	L5	L6	L7	L9	H1	H2 max.
M2000/13	13	164	72	38.8	21	9	4	2.6	22	3- 20	44
M2000/17	17	228	110	63		12	5	3.5	25	4- 30	65
M2000/22	22	270	131	74	17	17	6	4	30	6- 42	80
M2000/30	30	340	166	89	27		7	5	38	10- 60	95
M2000/40	40	470	232	122	41	27	10	7	50	14- 86	130
M2000/52	52	583	295	155	51		15	11	60	18-110	180



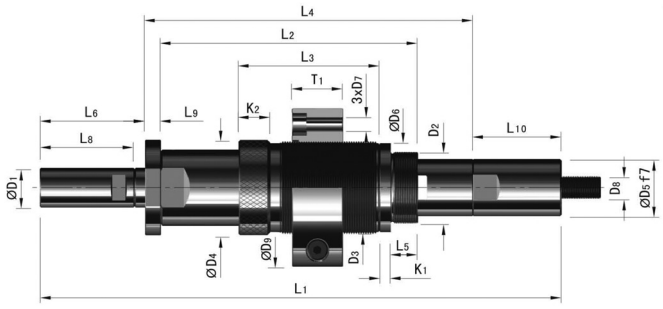


D1	B1	E2	E3	E5	E6	E9	E11	E12	E13	E6	E7	M1
13	13	M20x1	30	21	50	41.6	10	13.4	18	4	3	M 4
17	17	M24x1x5	37	25	60	48	13	17.4	21	5	4	M 5
22	22	M30x1x5	47	31	75	61	16	21	28	6	4.5	M 6
30	30	M40x1x5	62	41	100	82	20	26	34	7	5.5	M 8
40	40	M55x1x5	77	56	125	104	27	35	44	10	7.5	M 10
52	52	M72x1x5	100	73	150	128	36	48	59	15	11.5	

M2002 İki Aşamalı İtici Sistem

Mat.: 1.7131 (16MnCr5) 56-58 HRC

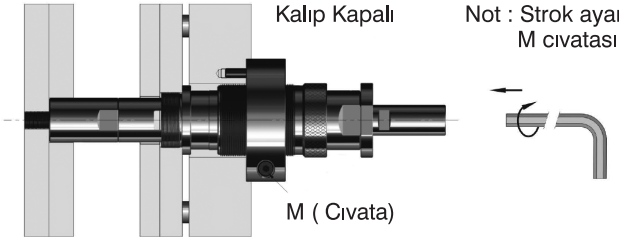


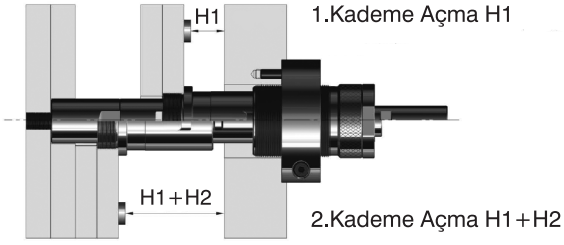


Sipariş Kodu	D2	D3	D4	D5	D6	D7	D8	D9	T1
M2002/22	M40x1.5	M52x1.5	52	31.5	50	9	M12x1.5	90	25
M2002/25	M45x1.5	M60x1.5	60	36	46		M14x1.5	100	32
M2002/32	M55x1.5	M72x1.5	72	44	70	11	M14x1.5	110	42

Sipariş Kodu	L1	L2	L3	L4	L5	L6	L8	L9	L10
M2002/22	278	141	82	175	17	56	52	10	45
M2002/25	329	163	89	207		66	60		56
M2002/32	430	196	106	257	22	102	82	12	71

Sipariş Kodu	D1	K1	K2	Sw1	Sw2	Sw3	H1 min.	H1 max.	H2 min.	H2 max.
M2002/22	22	6	18	17	46	36	36	48	4	36
M2002/25	25	7		19	55	41	41	60	5	50
M2002/32	32	8	16	27	65	50	50	86	6	60

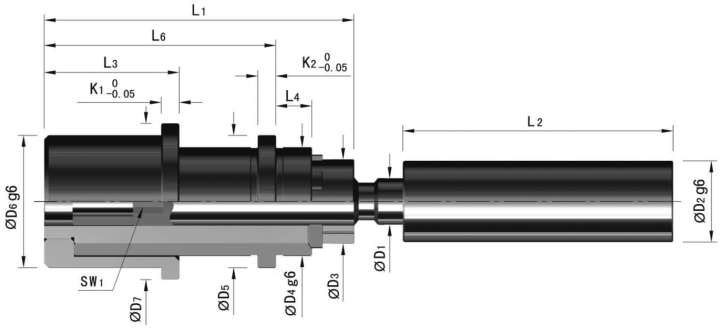




M2004 İki Aşamalı İtici Sistem

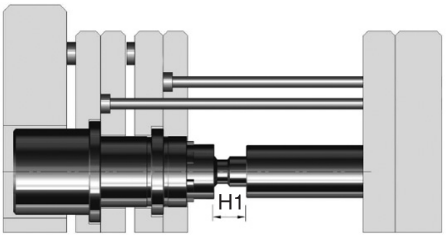
Mat.: 1.7131 (16MnCr5) 56-58 HRC



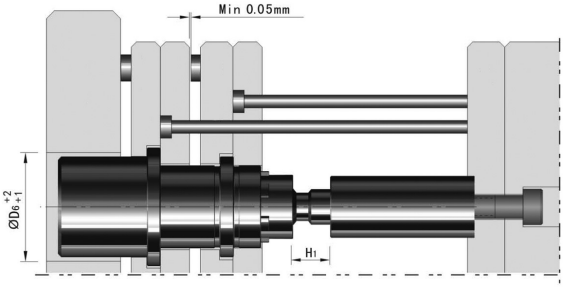


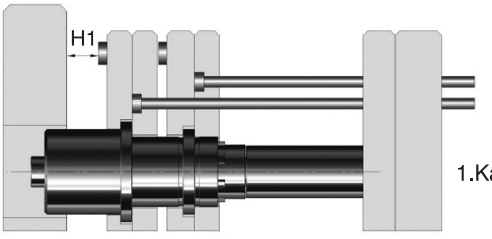
Sipariş Kodu	D2	D3	D4	D5	D6	D7	L1	L2	L3	L4	L5
M2004/16	27	28	36	44	44	52	103	90	45	12	5
M2004/20	32	34	43	51	51	59	134	100	59	17	6
M2004/26	42	43	54	63	64	73	168	150	74	22	7

Sipariş Kodu	D1	L6	K1	K2	Sw1	H1 min.	H1 max.	H2 min.	H2 max.
M2004/16	16	77	6	6	8	6	76	3	76
M2004/20	20	101	7	7	10	8	96	4	96
M2004/26	26	126	8	8	14	10	130	5	130

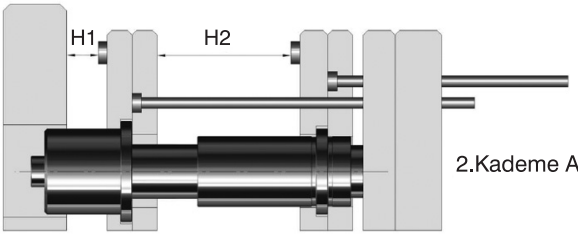


Kalıp Kapalı





1.Kademe Açma H1

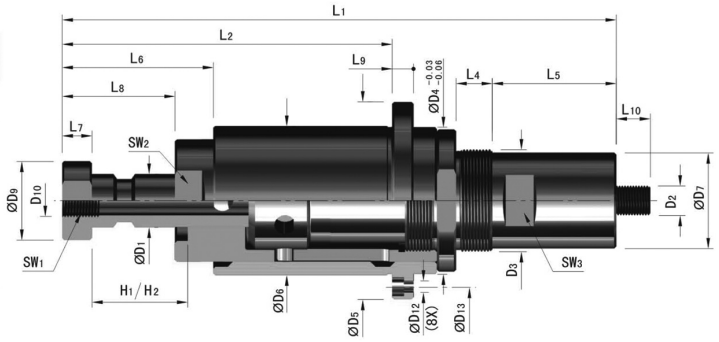


2.Kademe Açma H2

M2006 İki Aşamalı İtici Sistem

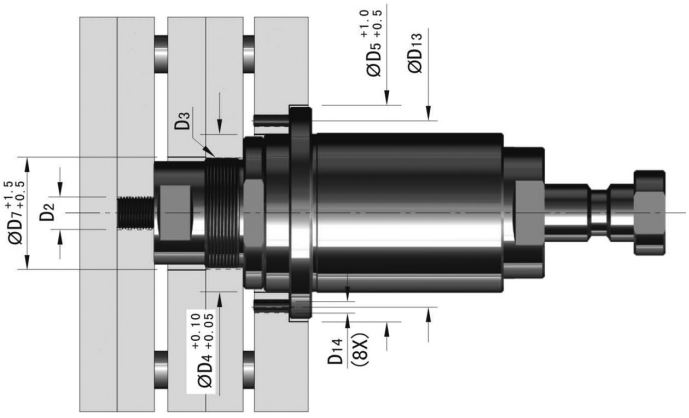
Mat.: 1.7131 (16MnCr5) 56-58 HRC

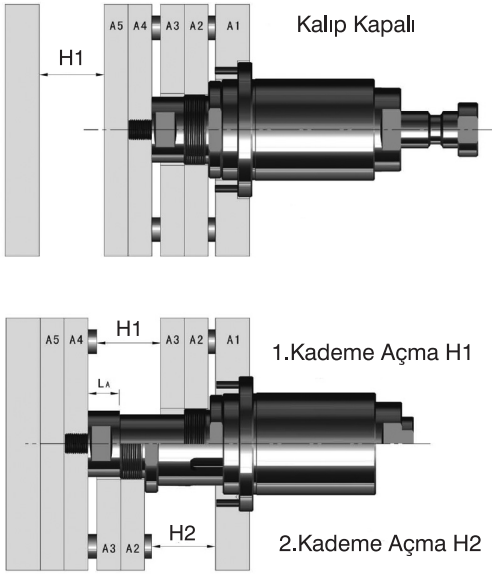




Sipariş Kodu	D2	D3	D4	D5	D6	D7	D9	D10	D12	D13	Sw1	Sw2	Sw3	H1
M2006/25-40	M14x1	M48x1.5	69	93	70	45	37	M16	5.4	81	32	50.2	38	4-45
M2006/32-60	M18x1	M58x1.5	80	110	82	55	46		6.4	95	41	60.2	46	6-60
M2006/40-80	M24x1.5	M76x1.5	106	140	108	73	56	M24	8.5	123	50	80.2	65	8-80

Sipariş Kodu	D1	L1	L2	L4	L5	L6	L7	L8	L9	L10	min. H2	max.
M2006/25-40	25	260	155	17	58	71	14	53	10	16	4	45
M2006/32-60	32	325	198		80	89	15	68	12	25	5	60
M2006/40-80	40	471	258	22	152	116	18	90	14	24	6	80



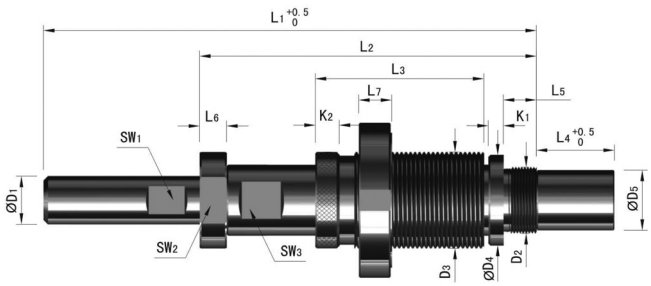


Sipariş Kodu	D2	D3	D4	D5	D7	D13	D14
M2006/25-40	M14x1	M48x1.5	69	93	49	81	M5
M2006/32-60	M18x1	M58x1.5	80	110	59	95	M6
M2006/40-80	M24x1.5	M76x1.5	160	140	77	123	M8

M2010 İki Aşamalı İtici Sistem

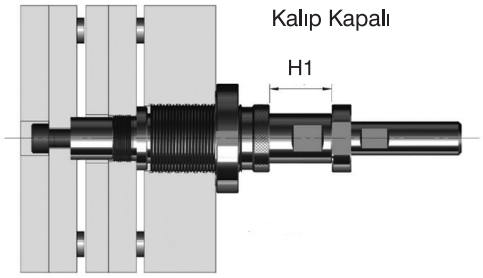
Mat.: 1.7131 (16MnCr5) 56-58 HRC

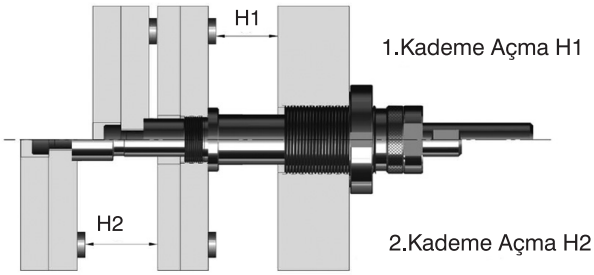




Sipariş Kodu	D2	D3	D4	D5	L1	L2	L3	L4	L5	L6	L7
M2010/16	M22x1	M32x1.5	30	20	164	112	56	26	11	9	11
M2010/22	M30x1.5	M42x1.5	40	28	220	148	75	36	16		12
M2010/30	M40x1.5	M60x1.5	50	38	255	170	80	45	21	11	13
M2010/40	M52x1.5	M70x1.5	60	50	270	200	98		22	12	14

Sipariş Kodu	D1	K1	K2	Sw1	Sw2	Sw3	H1 min.	H1 max.	H2 min.	H2 max.
M2010/16	16	5	8	13	28	20	5	30	3	50
M2010/22	22	6	10	17	38	27	6	40	4	70
M2010/30	30	7		24	55	38	7	50		
M2010/40	40	8	14	32	65	46	7.5	60	5	80

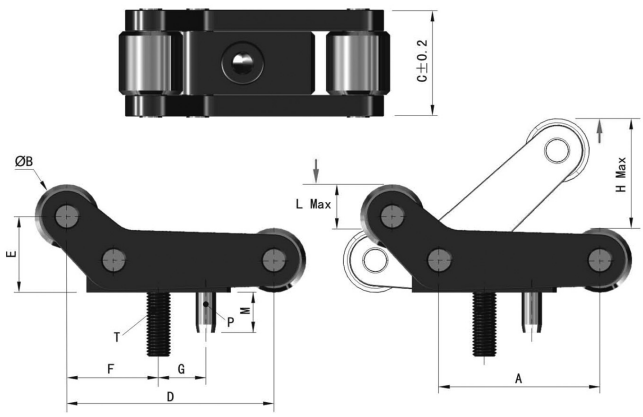




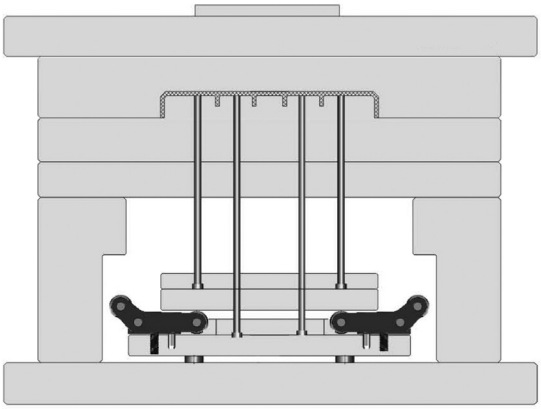
M2020 İtici Plaka Hızlandırıcı

Mat.: 1.7131 (16MnCr5) 56-58 HRC

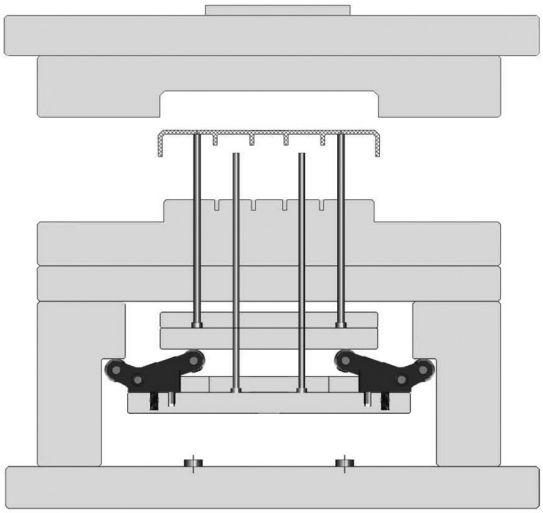




Sipariş Kodu	A	B	C	D	E	F	G	H max.	L max.	M	N	P	T	(Kgf) max. force
M2020/20	20	20	13.2	25.8	9.4	11.4	6	13.6	5.5	5	15	Ø2.5x10	M3x12	M3x12
M2020/25	25	25	16	32.3	11.8	14.3	7	17	6.8	6	18.5	Ø 3x12	M4x16	M4x16
M2020/37	37.5	37.5	22	48.5	17.7	21.5	10.5	25.5	10.2	8	25	Ø 4x16	M6x25	M6x25
M2020/50	50	50	29.6	64.6	23.6	28.6	14	34	13.6	10	34	Ø 5x20	M8x30	M8x30



Kalıp Kapalı

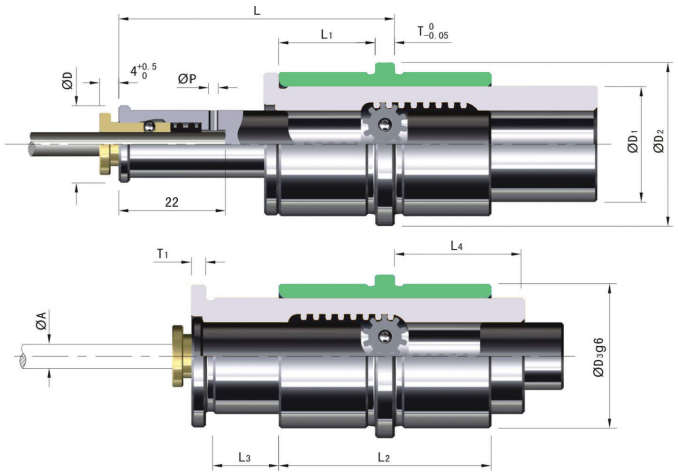


Kalıp Açık

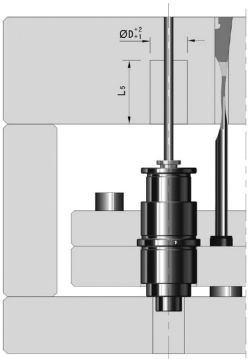
M2022 İki Aşamalı Enjektör

Mat.: 1.7131 (16MnCr5) 56-58 HRC

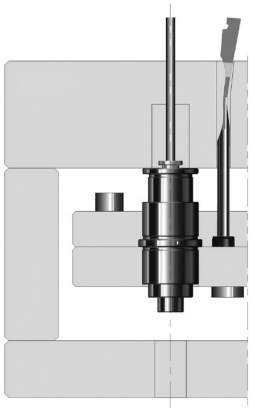




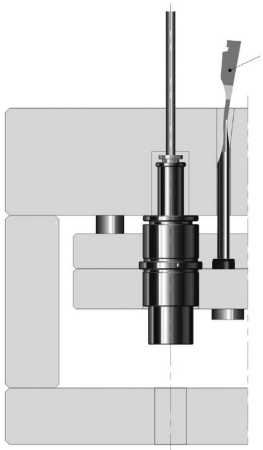
Sipariş Kodu	A	D	D1	D2	D3	L	L1	L2	L3	L4	L5	F	P	T	T1
M2022/03	3	12.5	16	22	20	37	14	32	8	17	22	13	-		
M2022/04	4														
M2022/05	5	16	24	34	30	57	20	44	15	27	36	16		4	3
M2022/06	6											17			
M2022/08	8	17											2		
M2022/10	10	21.5	30	40	36	78	28	62	20	34	46	21		6	4
M2022/12	12														



Kalıp Kapalı



Kalıp Açık 1.Kademe



Kalıp Açık 2.Kademe

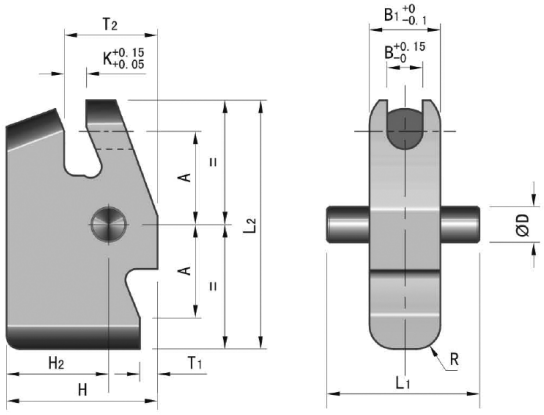
İtici Pimi Sökme



M2023 İtici Plaka Hızlandırıcı Unite

Mat.: Cr12MoV 56±2 HRC

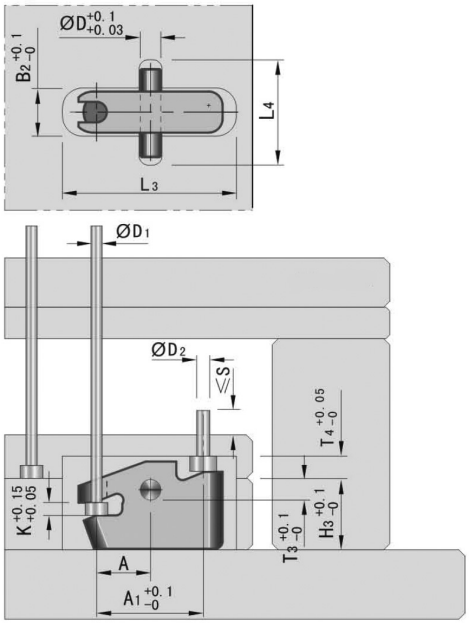




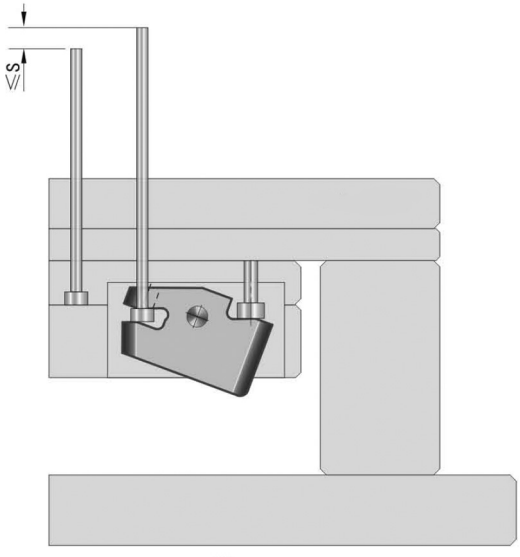
Sipariş Kodu	D	D2	B	B1	B2	B3	A	A1	T1	T2	T3
M2023/3	4	4	3	8	8.5	4	10	20	2	10	4
M2023/6	8	8	6	16	16.5	8	21	42	4	21	8
M2023/8			8								

T4	D1	L1	L2	L3	L4	H1	H2	H3	K	R	S
4	3	16	26	31	23	19	14	16	3	4	2.5
8	6	36	56	63	45	34	23	27	5	8	7.6
8											

İtici plakasında, normal hareket mesafesinden daha fazla strok gereken durumlarda kullanılır.
Ürüne 1 adet itici pim takılarak enjeksiyon sırasında itme - çıkartma uzatılabilir.



Kalıp Kapalı



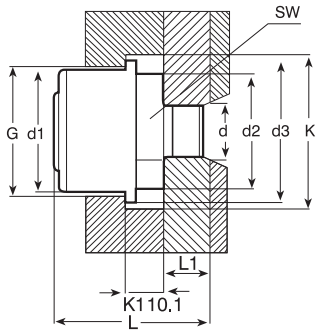
Kalıp Açık

M2030 Otomatik Vuruşlu İtici Plaka Sistemi

Mat.: 1.7147 56-58 HRC



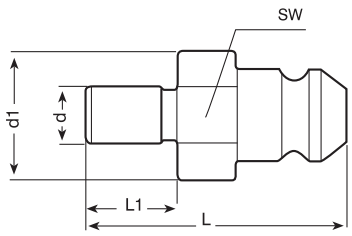
- Hızlı ve kolay montajı vardır. Mevcut kalıplarınızda dahi uygulanabilir. Sadece enjeksiyon esnasında serbest kalır.
- Herhangi bir enjeksiyon kalıbında, özellikle hidrolik itici sistemlerin geri dönüşlerinde bağlantı kurulur. Ayrıca mekanik iticili - maçalı sistemlerde itici pimleri maça temasına karşı korurlar.
- Dakikada 25-30 vuruşa ulaşarak seri operasyonlar için ekonmik ve uygun çözümdür



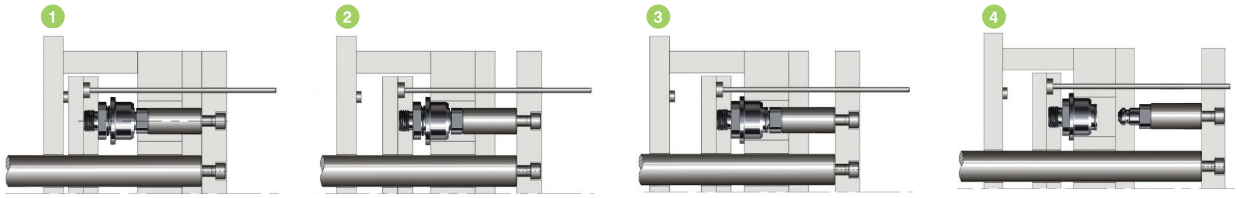
Gövde

Sipariş Kodu	d	G	d1	d2	d3	K	K1	L1	L	SW	Çekme Kuvveti Kg.
M2030G/01/12	M12x1.75	34	32	32	39	44	10	15	42.5	30	1500
M2030G/01/16	M16x1.5	34	32	32	39	44	10	15	42.5	30	1500
M2030G/02/16-1	M16x1.5	40	38	38	48	53	13	15	52	32	2400
M2030G02/16-2	M16x2.0	40	38	38	48	53	13	15	52	32	2400
M2030G/03/16	M16x1.5	58	56	52	65	70	17	18	68	46	3200
M2030G/03/18	M18x1.5	58	56	52	65	70	17	18	68	46	3200
M2030G/03/20	M20x1.5	58	56	52	65	70	17	18	68	46	3200
M2030G/03/24	M24x1.5	58	56	52	65	70	17	18	68	46	3200
M2030G/03/27	M27x1.5	58	56	52	65	70	17	18	68	46	3200
M2030G/03/30	M30x1.5	58	56	52	65	70	17	18	68	46	3200

Sipariş Kodu	d	SW	d1	L1	L	Çekme Kuvveti Kg.
M2030U/01/10	M10x1.5	19	22.8	20	45.5	1500
M2030U/01/12	M12x1.75	19	22.8	20	45.5	1500
M2030U/01/14	M14x2.0	19	22.8	20	45.5	1500
M2030U/01/16	M16x2.0	19	22.8	20	45.5	1500
M2030U/02/10	M10x1.5	19	25.8	20	55	2400
M2030U/02/12	M12x1.75	19	25.8	20	55	2400
M2030U/02/14	M14x2.0	19	25.8	20	55	2400
M2030U/02/16	M16x2.0	19	25.8	20	55	2400
M2030U/03/16	M16x2.0	32	35	25	68	3200
M2030U/03/18	M16x2.5	32	35	25	68	3200
M2030U/03/20	M20x2.5	32	35	25	68	3200
M2030U/03/24	M24x3.0	32	35	25	68	3200
M2030U/03/27	M27x3.0	32	35	25	68	3200
M2030U/03/30	M30x3.5	32	35	25	68	3200



Uç



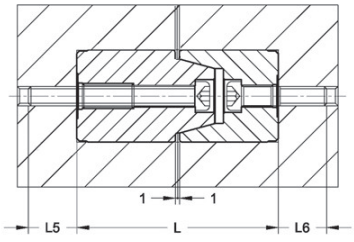
Merkezleme Kilitleri

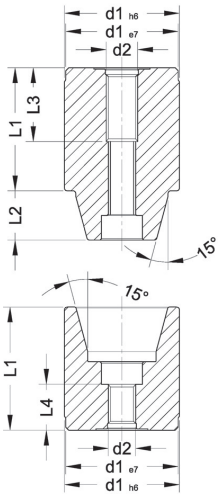


M150 Konik Kilitleme / Locating Unit

Mat.: 1.7131 (16 MnCr5Cr6) ≈ 62±2 HRC / Case Hardened





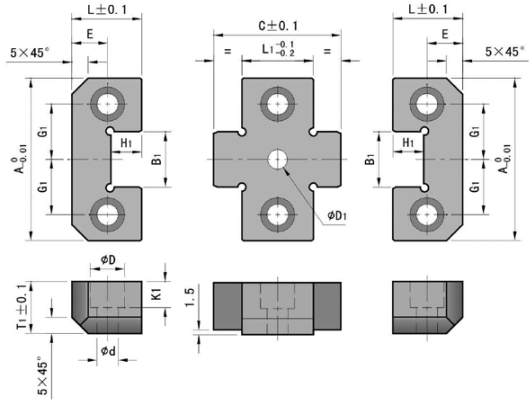


Sipariş Kodu	d1	L	L1	L2	L3	L4	L5	L6	d2
M150-12	12	34	16	4.5	9.6	8.6	8	7.5	M4
M150-14	14	34	16	6	12.4	6	7.5	8	M5
M150-16	16	34	16	6	12.4	5.8	7.5	8	M5
M150-20	20	54	26	9	19.7	10.6	12	9.5	M8
M150-25	25	54	26	10	19.7	9.2	11	11	M8
M150-30	30	72	35	14	25	12.2	15	13	M10
M150-32	32	72	35	14	25	12.2	15	13	M10
M150-42	42	92	45	18	27	16.8	16	13	M10

M410 Grup Kilitleme Blok

Mat.: 1.7131 (16 MnCr5) 56-58 HRC



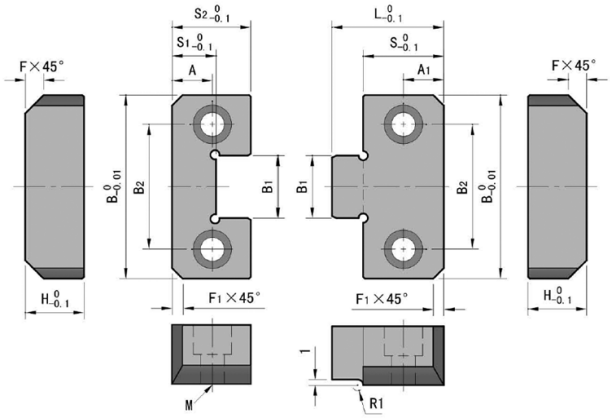


Sipariş Kodu	A	L1	B1	C	D	d	E	G	H1	K1	L	T1	D1
M410/ 50x26	50	26	17	43	10.5	6.5	11	17	9.5	8	21.5	16	6
M410/ 50x36		36		53									
M410/ 75x26	75	26	25	51	16.5	10.5	18	25	15	12	36	19	10
M410/ 75x36		36		61									
M410/ 100x36	100	36	35	71			22	35	21		45		
M410/ 100x46		46		81									
M410/ 125x36	125	36	45	71				42				25	25
M410/ 125x46		46		81									

M405 Kare Kilitleme Merkezleme Blok

Mat.: 1.2343 52-54 HRC



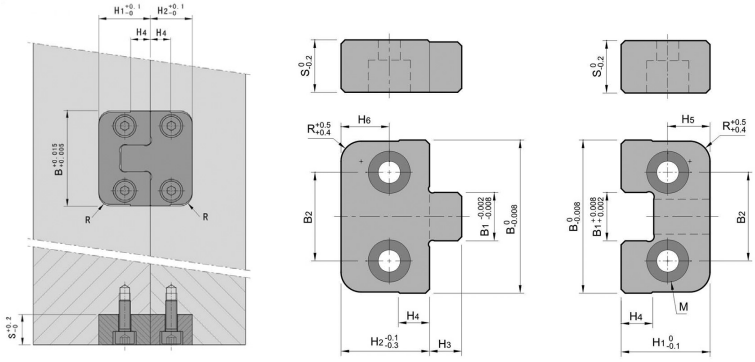


Sipariş Kodu	B	S	S1	S2	N	A	H	A1	B1	B2	F	F1	L	M
M405/38	40	17	12	27	12	6	10	6	14	22	6.5x45°	2.5x45°	31	M 5
M405/50	50		17	36	15	8.5	12.5	8.5	20	32		3x45°	35	M 6
M405/75	75	22	22	46	20	11	20	11	31.5	45	11x45°		45	M 10
M405/100	100	27	27	56	25	13.5	25	13.5	40	62	13x45°	5x45°	55	M 12
M405/125	125	36	36	66		18	31.5	18	50	87			65	

M406 Kare Kilitleme Merkezleme Blok DLC

Mat.: 1.7131 (16MnCr5) 56-58 HRC



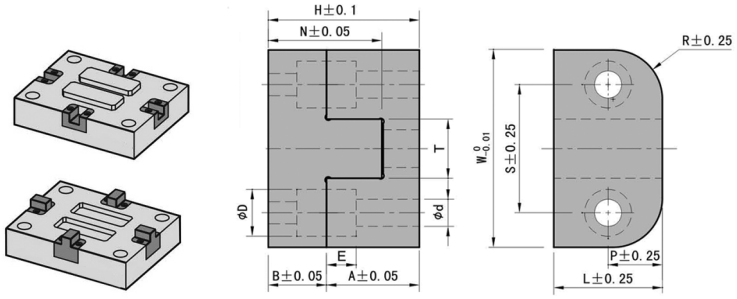


Sipariş Kodu	B	B1	B2	H1	H2	H3	H4	H5	H6	S	R	M
M406/40	40	10	26	17	14	11	6	8.5	7	10	4	M 5
M406/46	46	12	30	22	17	12	7	11	8.5	12	5	M 6
M406/50	50	14	34	27	22	16	10	13.5	11	16	6	M 6
M406/60	60	18	40	36	27	20	14	18	13.5	20	8	M 8
M406/76	76	24	50	40	36	25	18	20	18	25	10	M 10

M415 Merkezleme Blok

Mat.: 1.2344 (X40CrMoV5) 57-59 HRC



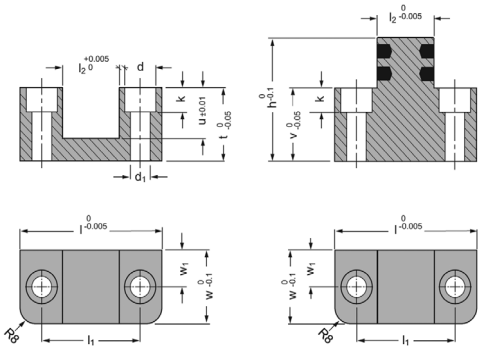


Sipariş Kodu	W	L	A	B	N	T	S	R	P	D	d	E	H	M
M415/15	38.1	24.5	22.17	9.47	22.1	12.7	25.4	7	12.7	10.5	6	7	31.64	M 5
M415/25	63.5	38.1	34.87	15.82	34.8	25.4	44.45	8.5	19.5	12	7.2	8	50.69	M 6
M415/35	88.9	50.8	44.4	19	44.2	36.58	63.5	9.5	25.4	15.5	10.5	11	63.4	M 8

M416 Merkezleme Blok DLC

Mat.: 1.2343 52-54 HRC



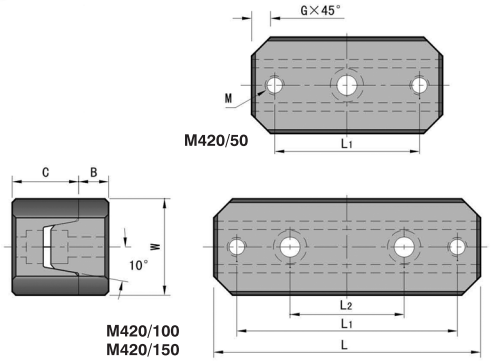


Sipariş Kodu	l	w1	w	l1	l2	t	u	h	v	d	d1	k	Civata
M416/35	35	13	26	23	11	25	15	29.5	15	9.5	5.5	6	M5
M416/45	45	15	30	30	15	25	15	29.5	15	11	6.5	7	M6
M416/55	55	18	36	37.5	20	30	20	39.5	20	14	8.5	9	M8
M416/75	75	18	36	52	30	35	25	44.5	20	17.5	10.5	11	M10
M416/100	100	22.5	45	70	40	60	40	59.5	20	17.5	10.5	11	M10
M416/125	125	25	50	92.5	60	80	55	79.5	25	24	14.5	16	M14

M420 Kızak Merkezleme Ünitesi

Mat.: 1.7131 (16MnCr5) 56-58 HRC



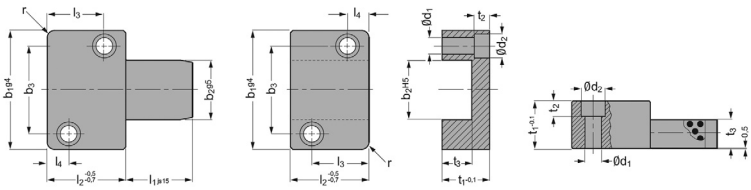


Sipariş Kodu	L	L1	L2	W	B	C	G	M
M420/50	50	36	-	25	8	17.5	5	M 5
M420/100	100	88	60	30	10	22		M 6
M420/150	150	132	10	40	13	25		M 8

M425 Grafitli Merkezleme Ünitesi

Mat.: 1.7131 (16MnCr5) Grafitli yüzeyler HRC : 54-56 / Diğer Yüzeyler HRC : 60 - 62



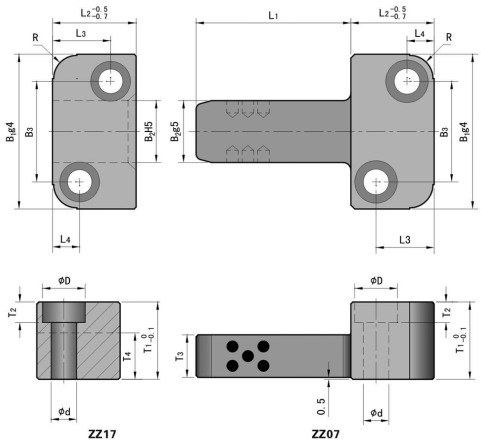


Sipariş Kodu	l2	l1	b2	t1	t2	t3	d1	d2	l3	l4	b1	b3	r
M425/22X16X20	22	20	16	20	6.8	11	6.6	11	15	7	40	26	6
M425/22X16X40	22	40	16	20	6.8	11	6.6	11	15	7	40	26	6
M425/27X20X25	27	25	20	22	6.8	13	6.6	11	19	7	45	31	6
M425/27X20X50	27	50	20	22	6.8	13	6.6	11	19	7	45	31	6
M425/36X25X32	36	32	25	25	6.8	14	6.6	11	27	9	50	35	8
M425/36X25X63	36	63	25	25	6.8	14	6.6	11	27	9	50	35	8
M425/46X32X40	46	40	32	32	9	19	9	15	35	11	63	45	8
M425/46X32X80	46	80	32	32	9	19	9	15	35	11	63	45	8
M425/56X40X50	56	50	40	36	11	22	11	18	40	15	85	60	10
M425/56X40X100	56	100	40	36	11	22	11	18	40	15	85	60	10
M425/66X50X56	66	56	50	40	13	24	14	20	48	18	100	74	10
M425/66X50X112	66	112	50	40	13	24	14	20	48	18	100	74	10

M426 Grafitili Merkezleme Ünitesi

Mat.: 1.7131 (16MnCr5) 56-58 HRC





Sipariş Kodu	L3	B3	B1	L2	B2	L1
M426/22x16x20	10	26	40	22	16	20
M426/22x16x40						40
M426/27x20x25	19	31	45	27	20	25
M426/27x20x50						50
M426/36x25x32	27	35	50	36	25	32
M426/36x25x63						63
M426/46x32x40	35	45	63	46	32	40
M426/46x32x80						80
M426/56x40x50	40	60	85	56	40	50
M426/56x40x100						100
M426/66x50x56	48	74	100	66	50	56
M426/66x50x112						112

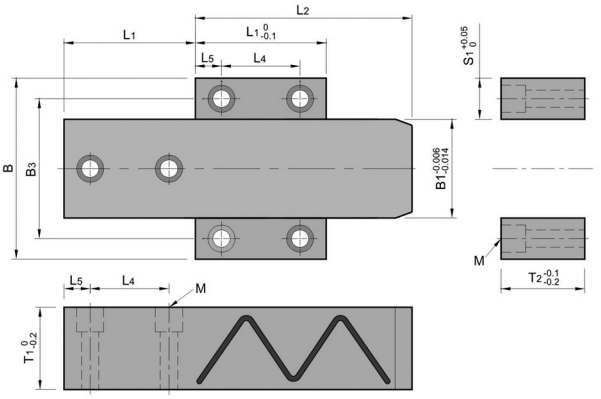
T4	R	T3	T2	T1	D	d	L4
12	6	11	6.9	20	11	6.6	7
14		13		22			
15	8	14	9	25			9
20		19	11	32	15	9	11
23	10	22	13	36	18	11	15
25		24		40	20	14	18

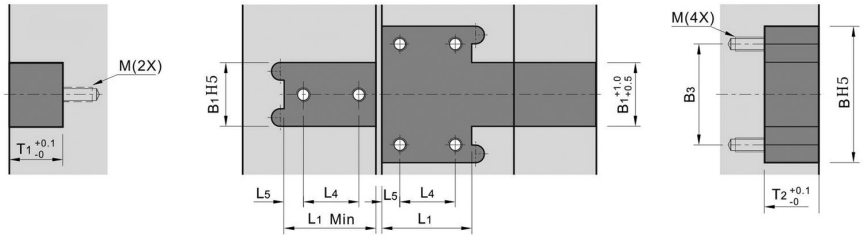
M430

Uzun Kızak Merkezleme Ünitesi

Mat.: 1.7131 (16MnCr5) 56-58 HRC





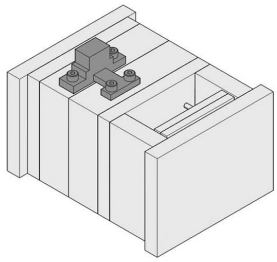


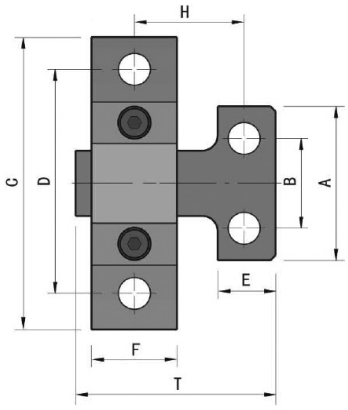
Sipariş Kodu	B1	S1	L2	B	B3	L1	L4	L5	T1	T2	M
M430/16x10x44	16	10	44	36	26	26	14	6	14	14.2	M 4
M430/16x10x54			54								
M430/16x10x64			64								
M430/25x12x54	25	12	54	49	37	34	18	8	22	22.3	M 5
M430/25x12x74			74								
M430/25x12x94			94								
M430/34x16x54	34	16	54	66	50	44	28		30	30.5	M 6
M430/34x16x94			94								
M430/34x16x134			134								
M430/34x16x174			174								
M430/46x20x74	46	20	74	86	66	62	38	12	38	38.8	M 8
M430/46x20x114			114								
M430/46x20x154			154								
M430/46x20x194			194								
M430/60x25x97	60	25	97	110	85	80	48	16	50	51.2	M 10
M430/60x25x134			134								
M430/60x25x174			174								
M430/60x25x214			214								
M430/60x25x254			254								
M430/80x32x114	80	32	114	144	112	98	58	20	70	71.6	M 12
M430/80x32x154			154								
M430/80x32x194			194								
M430/80x32x234			234								
M430/80x32x274			274								
M430/80x32x314			314								

M440 Tırnaklı Merkezleme Ünitesi

Mat.: 1.2162







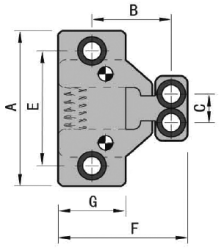
Sipariş Kodu	A	B	C	D	E	F	H	T	Montaj Cıvatası	Maksimum Kuvvet F(kgf)
M440/10	40	26	73	60	20	20	23	48	M8	150
M440/20	40	22					66	96		
M440/30	50	30	113	90	22	30	38	72	M10	250
M440/40							79	114		
M440/50							38	75	M12	350
M440/60					25		103	139		

M441 Tırnaklı Merkezleme Ünitesi

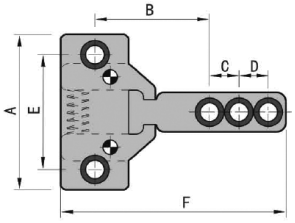
Mat.: 1.2162

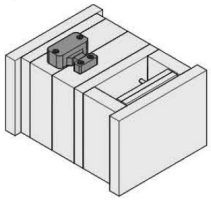


M441/10



M441/20



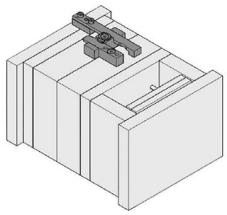


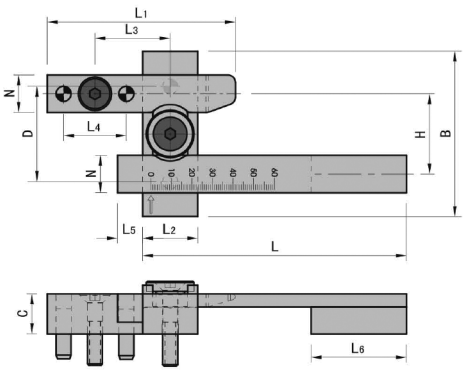
Sipariş Kodu	A	B	C	D	E	F	G	Montaj Cıvatası	Maksimum Kuvvet F(kgf)
M441/10	78	40	15	-	60	68	38	5/16”	500
M441/20		58		15		116			

M432 Kademeli Kilit

Mat.: 1.7131 (16MnCr5)





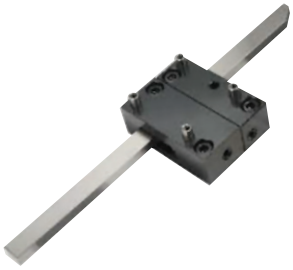


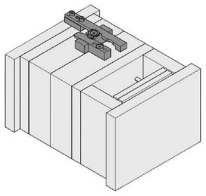
Sipariş Kodu	B	C	D	H	H1	L	L1	L2	L3
M432/16	86	16	38	32	10	105	75	22	30
M432/19	96	19	46	42.7	11.5	153	102	36	43
M432/24	106	24	56	50.2	14	190	124	42	51

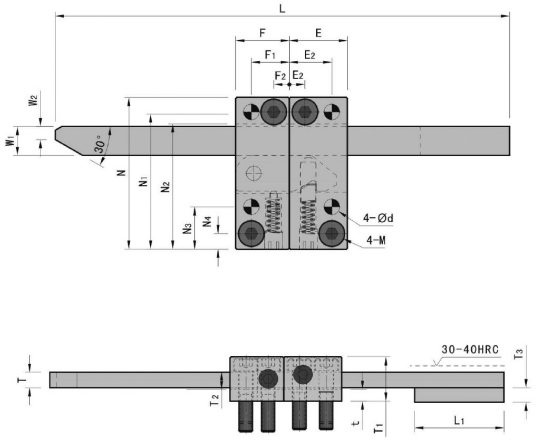
Sipariş Kodu	L4	L5	L6	N	Pos			
					5	7	8	9
M432/16	25	10	38	15	Ø 6x20	Ø 6x30	Ø 6x30	Ø 6x35
M432/19	32	12	50	20	Ø 8x24	Ø 8x36	Ø 8x36	Ø 8x40
M432/24	40	15	60	24.5	Ø 10x30	Ø 10x40	Ø 10x40	Ø 10x45

M436 Kayar Üniteli Merkezleme

Mat.: 1.7131 (16MnCr5)







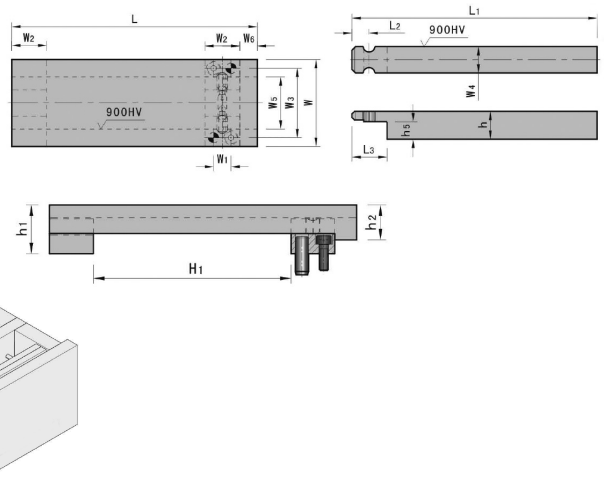
Sipariş Kodu	N	N1	N2	N3	N4	E	E1	E2	F	F1	F2	d	t
M436/215	68	61.5	55	19	7	26	19	7	24	17	7	Ø 6	6
M436/300	88	79	70	24	9	38	29	9	30	1	9	Ø 8	7
M436/350	104	93	82	27	11	48	37	11	38	27	11	Ø 10	8

Sipariş Kodu	T	T1	T2	T3	W1	W2	L	L1	Montaj Vidası	Dübel Pimi
M436/250	7	20	8	6.5	13	5.9	250	40	M 6x25	Ø 6x30
M436/300	10	30	12	8	16	6	300	50	M 8x35	Ø 8x40
M436/350	15.5	45	20	10.2	20	9.5	350	55	M 10x50	Ø 10x50

M434 Kademeli Açma Ünitesi

Mat.: 1.7131 (16MnCr5)





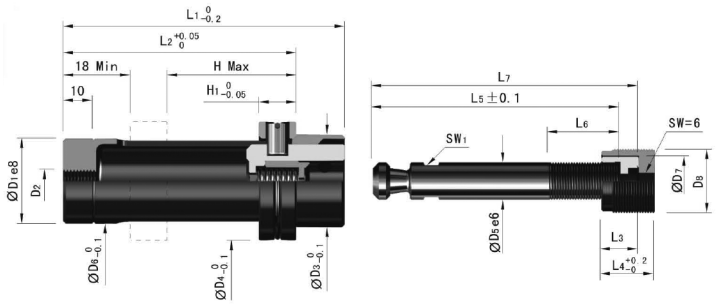
Sipariş Kodu	H1		L	L1	L2	L3	Dübel Pimi	Çekme Kuvveti	Montaj Vidası
	max.	min.							
M434/50x90	90	4	140	140	9.75	20	6x20	1600	M4 x 12
M434/50x130	130		180	180					
M434/80x117	117	5.5	200	200	16.75	34		2700	M6 x 16
M434/80x167	167		250	250					
M434/100x145	145	7			22.25	45	8x24	4800	M8 x 18
M434/100x195	195		300	300					

W1	W2	W3	W4	W5	h	h1	h2	h5
10	20	40	15	30.05	16	22.3	16	10
16	34	60	20	40.05	21	30.3	22	13
22	45	80	25	60.05	27	37.5	27	16

M438 Sürgülü Kilit Merkezleme

Mat.: SKD61 52±2 HRC



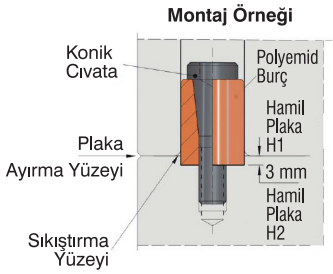


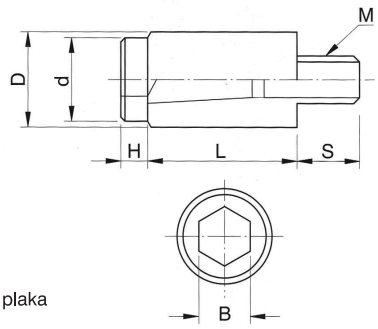
Sipariş Kodu	L1	L2	L3	L4	L5	L6	Sw1
M438/01	78	60	14	20	56	20	12
M438/02					73		
M438/03					93		
M438/04					118		
M438/05	106	88			73	25	
M438/06					93		
M438/07					118		
M438/08					133		
M438/09	90	70	16	22	56	20	15
M438/10					73		
M438/11					93		
M438/12					118		
M438/13	125	105			73	30	
M438/14					93		
M438/15					118		
M438/16					133		

D1	H max.	D5	L7	D2	D3	D4	D6	D7	D8	D5
32	28	14	63	M10	34.8	44.8	32.2	18.5	M24x1	14
			80							
			100							
			125							
	56		63							
			80							
			100							
			125							
38	36	18	80	M12	40.8	51.8	38.2	23.5	M30x1.5	16
			100							
			125							
			140							
	71		80							
			100							
			125							
			140							

M442 Sürtünmeli Plaka Çektirme





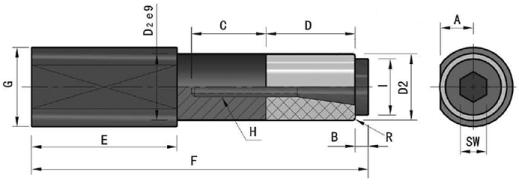


M442 plaka çektirme ürünü ile kalıpta istediğiniz plaka grubunu ayırabilirsiniz.
Ekonomik ve montajı kolaydır.
Kullanım ömrü yaklaşık 50.000 baskıdır.
Küçük ve orta boyutlu kalıplarda ve 2 kademeli kalıplarda kullanılır.

Sipariş Kodu	D	d	M	B	H	L	S
M442/10	10	8	M5	4	3	18	8
M442/12	12	11	M6	5	3	20	8
M442/13	13	11	M6	5	3	20	8
M442/16	16	14	M8	6	4	25	10
M442/20	20	14	M10	6	4	30	10

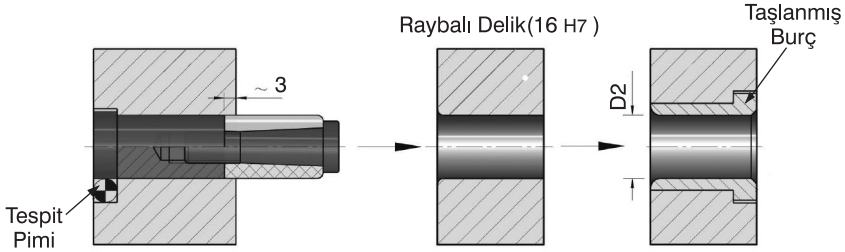
M443 Sürtünmeli Plaka Çektirme





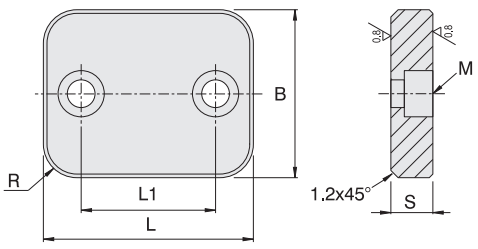
Sipariş Kodu	D2	R	A	B	C	D	E	F	G	I	SW	H
M443/10	16	1,5	8	4	14	25	23	72	18	13	6	M8

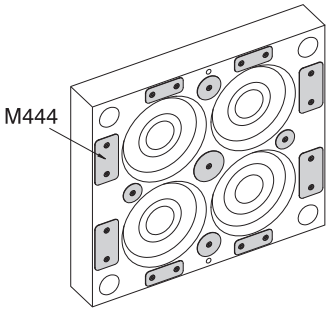
M443 plaka çektirme ürünü, ortalama çekim kuvveti ve plaka hassasiyetinin yeterli olduğu 3 plakalı kalıplarda etkili bir üründür. Plaka aralarında durdurma amaçlı fren olarakda kullanılabilir. Örnek olarak zıt - karşı parçaların hareketleri bekletilmek veya geciktirilmek isteniyorsa ya da sert - zarar verici plaka çarpışmalarını engellemek içinde kullanılabilir.



M444 Sıkma Plakası Dikdörtgen







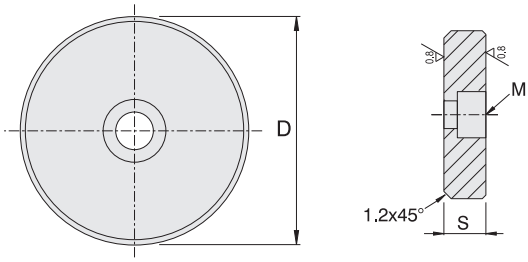
1.2842 malzeme ve 58 HRC ısıl işlem desteği ile enjeksiyon ve 2. basınç esnasında oluşan kapama / kilitleme yüklerini çekirdekler dışındaki kalıp seti yüzeylerine plakaların desteği ile eşit bir şekilde dağılımına yardımcı olur.
Bu şekilde kalıp yüzeleri koruma altına alınır. Sabit ve hareketli olarak kullanılabilir.

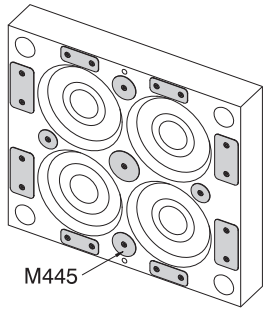
Sipariş Örneği M444/BxL

B	L	S	L1	R	M
32	40	8.1	24	8	M5
	64		40		M5
	100	10.1	64		M6
40	50	8.1	32	8	M5
	80	10.1	52		M6
	100	12.1	64		
50	64	10.1	40	8	M6
	100	12.1	64		
	125		80		
64	80	10.1	52	8	M6
	100	12.1	64		
	125		80		
	160		100		

M445 Sıkma Plakası Yuvarlak







Enjeksiyon kalıp tasarımlarında, kalıp ayırma yüzeylerinde enjeksiyon sıkıştırma basıncının doğru bir dağılımda olmasına dikkat edilmelidir.
Bu şekilde kalıp yüzeleri koruma altına alınır. Sabit ve hareketli olarak kullanılabilir.

Sipariş Örneği M445/DxS

D	S	M
20	8.1	M5
25	8.1	M5
32	8.1	M5
40	10.1	M6
50	10.1	M6
64	12.1	M6
80	12.1	M8

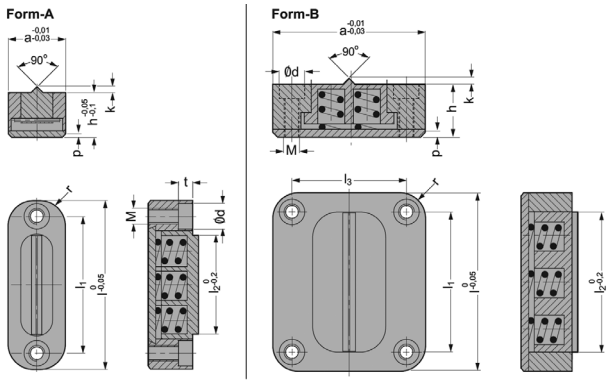
Maça Sistemleri



M2215 Kare Sabitleme Ünitesi

Mat.: 1.2379 (X155CrVMo12-1) 54-58 HRC



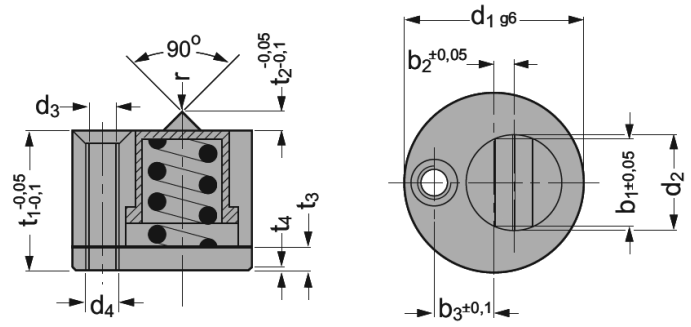


Sipariş Kodu	h	a	l	l1	l2	l3	k	p	M	d	r	t	Yük
M2215/12x38	12	14	38	28	16	-	1.8	2	M5	8	6	4.5	7 Kgf
M2215/14x53	14	18	53	43	32	-	1.8	2	M5	8	8	4.5	12 Kgf
M2215/16x56	16	48	56	44	44	36	1.8	2	M5	8	8	4.5	25 Kgf

M2220 Silindir Sabitleme Ünitesi

Mat.: 1.2379 (X155CrVMo12-1) 54-58 HRC



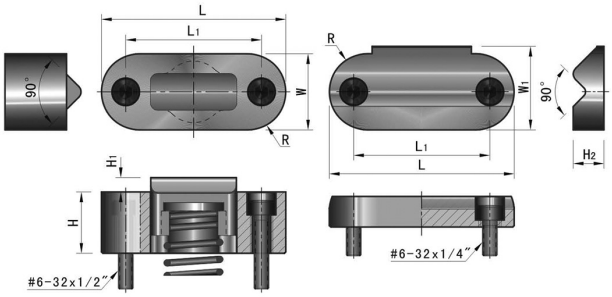


Sipariş Kodu	d1	b1	b2	b3	t1	t2	d2	d3	d4	r	Cıvata	Yük
M2220/13	13	6.6	1.4	4.3	10	1.0	7	2.2	M3	0.35	M2x16	3.5 Kgf
M2220/18	18	9.6	2.0	6.0	14	1.8	10	3.2	M4	0.50	M3x20	4.5 Kgf
M2220/27	27	14.4	3.0	9.0	21	28	15	4.3	M5	0.75	M4x25	9.5 Kgf

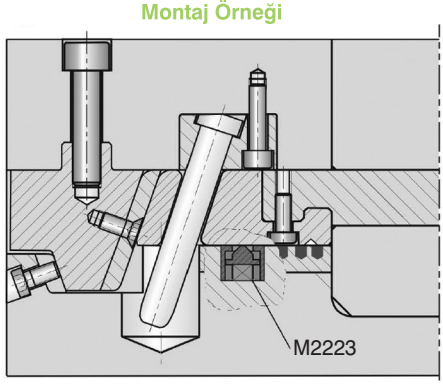
M2223 Maça Blok Tutucu

Mat.: 1.2379 (X155CrVMo12-1) 54-58 HRC





Montaj Örneği



Sipariş Kodu	L	L1	H	H1	H2	W	W1	R	Montaj Vidası	Maksimum Tutma (Kgf)
M2223/25	37.95	27.94	12.67	2.97	6.32	15.75	17.27	7.92	M6x32	11.25
M2223/50	58.22	41.91	21.84	4.34	9.78	25.3	26.87	12.7	M6x32	22.5

M2206 Modüler Tutucu

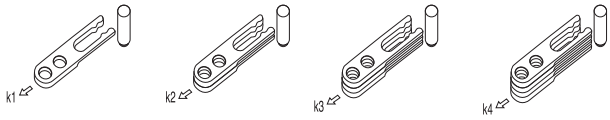
Mat.: 1.8159 45-48 HRC



Modüler Tutucu: Kalıbın kademeli açılmasını sağlar. Klips ekleyerek direnç arttırılabilir.

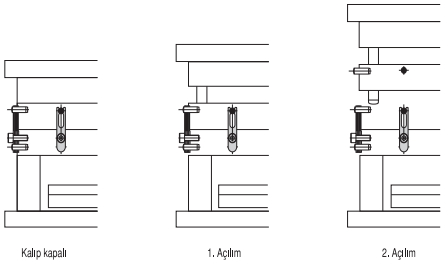
Önemli: Tabloda gösterilen direnç değeri yaklaşık bir değerdir. 1, 2, 3, veya daha fazla klips ile direnç arttırılabilir.

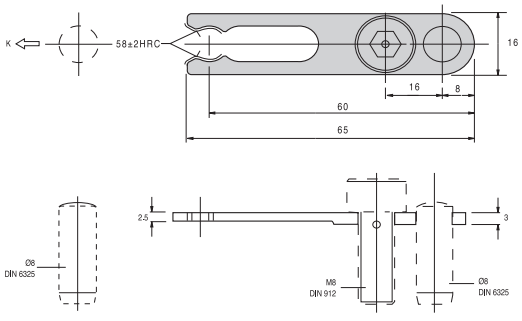
Sipariş Kodu	k1	k2	k3	k4
M2206	7.5 Kg.	15 Kg.	22.5 Kg.	30 Kg.



Kx1 RM = 7.5 Kg Kx2 RM = 15 Kg Kx3 RM = 22.5 Kg Kx4 RM = 30 Kg

Direnç arttırmak için önemli gruplar

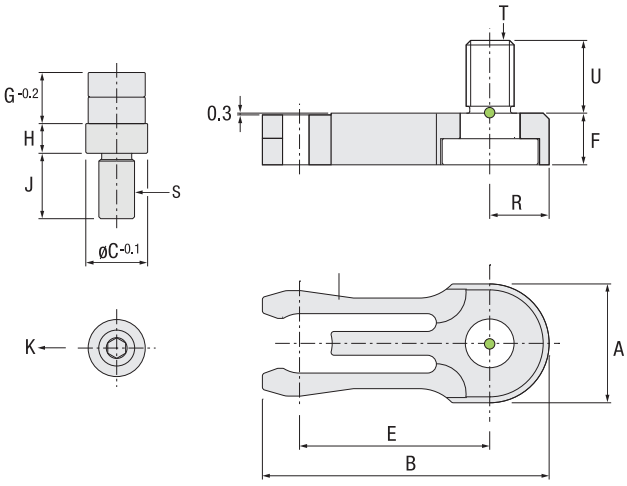




M2208 Sınırlı Maça Tutucu

Mat.: 1.8159 45±3 HRC

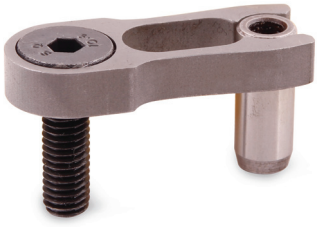


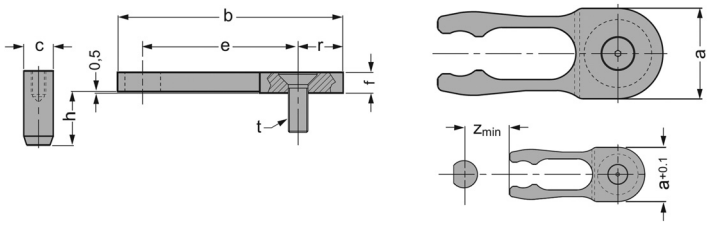


Sipariş Kodu	A	B	C	E	F	G	H	J	K	N	R	S	T	U
M2208/16	16	38	8	25	7.6	7.6	4	10	10 Kg.	7	8	M5	M6	9
M2208/20	20	48	10	32	8.7	8.6	5	11	14 Kg.	8	10	M6	M8	12
M2208/24	24	57	12	37.5	9.6	9.6	6	12	18 Kg.	9	12	M8	M10	15

M2210 Tutucu Ünite

Mat.: 1.06523 (21NiCrMo2) 58-62 HRC



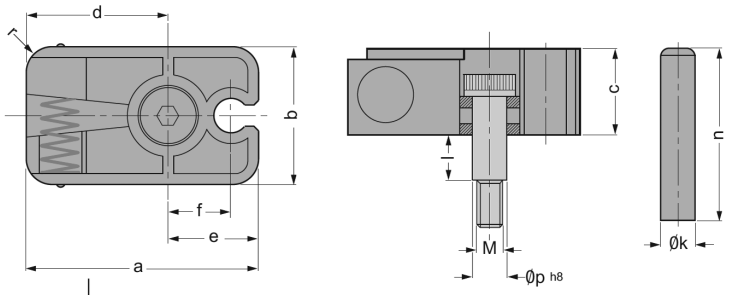


Sipariş Kodu	a	b	c	e	f	g	h	r	t	Yük
M2210/05	**12**	30	6x20	21	5	4	16	6	M5x16	5kgf
M2210/06	**16**	40	8x20	28	6	5	15	8	M6x25	7kgf
M2210/08	**20**	50	10x24	34	8	6	17	10	M8x30	14kgf
M2210/10	**24**	60	12x32	42	10	7	23	12	M10x40	21kgf
M2210/12	**32**	80	16x40	56	12	9	27	16	M12x50	28kgf
M2210/16	**32**	80	16x40	56	16	9	25	16	M12x50	38kgf

M2205 Tutucu Ünite

Mat.: 1.06523 (21NiCrMo2) 58-62 HRC



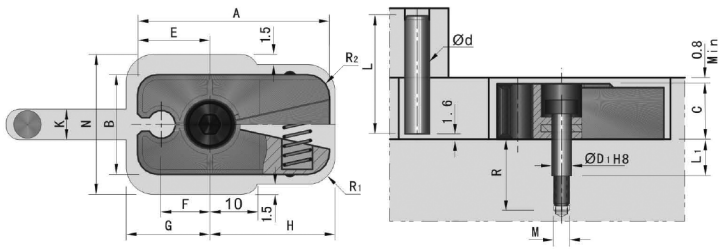


Sipariş Kodu	a	b	c	d	e	f	r	M	l	p	k	n	Yük
M2205/38	**38**	19	16	22	16	9.15	5	M5	6	6	6	30	10 Kgf
M2205/54	**54**	32	20	33	21	12.7	6	M6	8	8	8	40	20 Kgf
M2205/86	**86**	45	30	53	33	20.3	10	M8	10	10	10	60	40 Kgf

M2207 Tutucu Ünite

Mat.: 4118 55-62 HRC

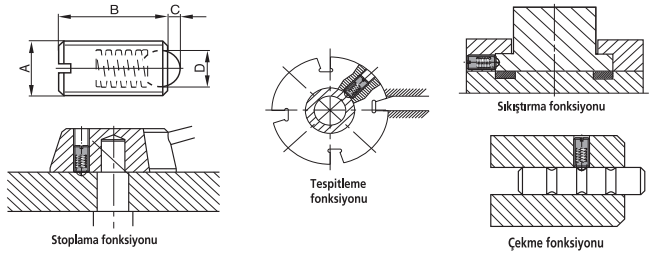




Sipariş Kodu	A	B	C	E	F	G	H	N	K	D1	L1	R	R1	R2	M	Maks.Tutma (Kgf)
M2207/10	38	19	16	16	9.1	19	26	25	8	6	6	15.5	8	5	M5	10
M2207/20	54	32	20	21	12.7	24	36	26	10	8	8.5	20.5	10	6	M6	20
M2207/30	86	45	30	53	20.3	36	56	56	12	10	10	25	13	10	M8	40

M1108 Maça Stoperi / Bilyalı Setskur





Sipariş Kodu	A	B	C	D	İlk basınç N (Newton)	Nihai basınç N(Newton)
M1108/04	M 4 X 0.7	9	0.8	2.5	6	12
M1108/05	M 5 X 0.8	12	0.9	3	7	13
M1108/06	M 6 X 1	14	1.0	3.5	9	15
M1108/08	M 8 X 1.25	16	1.5	5	20	35
M1108/10	M10 X 1.5	19	2.0	6	25	45
M1108/12	M12 X 1.75	22	2.5	8	35	60
M1108/16	M16 X 2	24	3.5	10	65	110

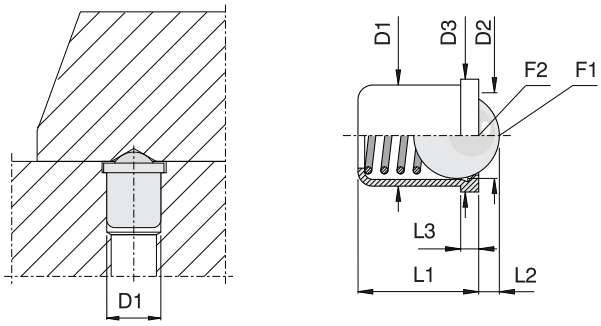
Metal Steel

Clas 5.8
Yüzey işleme yapılmıştır.
Paslanmaz çelikten olan bilya sertleştirilmiş ve leplenmiştir.

Uzunluk Length
Standart Boylar

M1109 Kovanlı Bilyalı Maça Stoperi





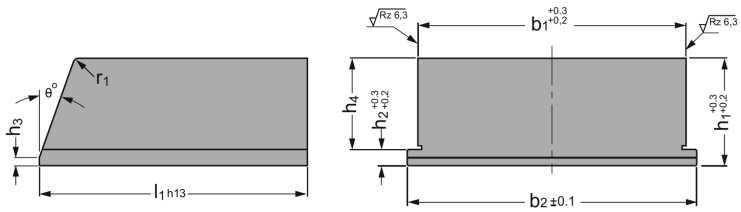
Sipariş Kodu	D1	L1	L2	D2	L3	D3	F1	F2
M1109/4	4	5	1	3	0.9	4.6	2.5	6
M1109/5	5	6	1.4	4		5.6	3	6.5
M1109/6	6	7	1.8	5	1	6.5	5.5	11.5
M1109/8	8	9	2.4	6.5	1.1	8.5	7	12.5

M1110 Açılı Dayama Kılavuz Plaka



Mat.: M1110/67 için 1.2767 (45 NiCrMo6)
M1110/43 için 1.2343 (X37CrMoV5-1)

θ Açısı sipariş ile birlikte müşteri tarafından belirtilmelidir.
Sipariş kodlarındaki XX olan bölüme mataryel seçimi belirtilmelidir.



Sipariş Kodu	h1	b1	b2	l1	r1	h2	h3	h4
M1110/XX/1220/θ	12	20	26	40	1.5	4	1.5	8
M1110/XX/1225/θ	12	25	31	40	1.5	4	1.5	8
M1110/XX/1240/θ	12	40	46	40	1.5	4	1.5	8
M1110/XX/1263/θ	12	63	69	40	1.5	4	1.5	8
M1110/XX/1620/θ	16	20	26	50	1.5	4	1.5	12
M1110/XX/1625/θ	16	25	31	50	1.5	4	1.5	12
M1110/XX/1640/θ	16	40	46	50	1.5	4	1.5	12
M1110/XX/1663/θ	16	63	69	50	1.5	4	1.5	12
M1110/XX/2040/θ	20	40	46	63	2	5	2	15
M1110/XX/2063/θ	20	63	69	63	2	5	2	15
M1110/XX/2080/θ	20	80	86	63	2	5	2	15
M1110/XX/2540/θ	25	40	46	71	2	5	2	20
M1110/XX/2563/θ	25	63	69	71	2	5	2	20
M1110/XX/2580/θ	25	80	86	71	2	5	2	20
M1110/XX/3263/θ	32	63	71	100	3	6	3	26
M1110/XX/3280/θ	32	80	88	100	3	6	3	26
M1110/XX/32100/θ	32	100	108	100	3	6	3	26
M1110/XX/4063/θ	40	63	71	100	3	6	3	34
M1110/XX/4080/θ	40	80	88	100	3	6	3	34
M1110/XX/40100/θ	40	100	108	100	3	6	3	34
M1110/XX/5080/θ	50	80	90	112	4	8	4	42
M1110/XX/50100/θ	50	100	110	112	4	8	4	42
M1110/XX/50125/θ	50	125	135	112	4	8	4	42
M1110/XX/6380/θ	63	80	90	112	4	8	4	55
M1110/XX/63100/θ	63	100	110	112	4	8	4	55
M1110/XX/63125/θ	63	125	135	112	4	8	4	55

M1105 Açılı Küresel Burç Seti

Mat.: 1.0503 (C 45) 0-170 HRC

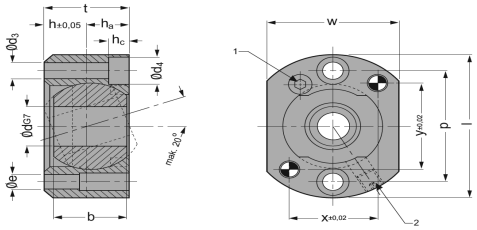
Çalışma Şekli

M1105/SG Sağ
M1105/SL Sol

Bronz ve yağlama sağlayan grafit çalışma sıcaklığı 0-170 °C



- Çizim sol çalışma şekline göre hazırlanmıştır.
- Sağ çalışma şekli çizimin simetriğidir.
- Ürünlerin montajında kullanılan civata ve pimler kullanıcı tarafından temin edilir.

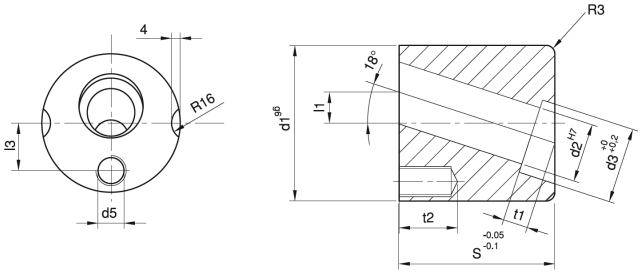


Sipariş Kodu	d	l	w	t	h	ha	b	M	p	hc	e	x	y	d3	d4
M1105/XX/008044	**8**	44	28	17	9	8	14	5	32	6	5	20	28	6	10
M1105/XX/010046	**10**	46	30	20	11	9	16	5	34	6	5	22	28	6	10
M1105/XX/012050	**12**	50	32	22	12	10	18	6	36	6	6	22	30	7	11
M1105/XX/016058	**16**	58	45	29	16	13	25	6	45	7	6	30	35	7	11
M1105/XX/020065	**20**	65	50	33	18	15	28	6	52	7	6	35	40	7	11
M1105/XX/025078	**25**	78	57	38	21	17	33	8	62	9	8	40	50	9	15
M1105/XX/030086	**30**	86	65	43	24	19	37	8	70	9	8	48	55	9	15
M1105/XX/035098	**35**	98	72	49	28	21	40	10	78	10	8	52	60	11	18
M1105/XX/040106	**40**	106	77	53	30	23	44	10	84	10	8	55	65	11	18
M1105/XX/045118	**45**	118	85	57	32	25	48	10	96	10	8	59	72	11	18

M1100 Boynuz Pimi Yatağı

Mat.: 1.07131 (16MnCr5) 60-62 HRC / Case Hardened



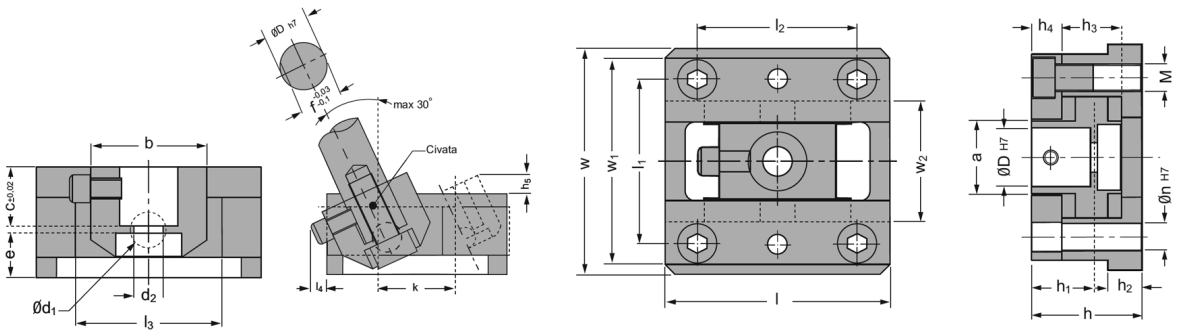


Sipariş Kodu	d2	s	d1	d3	d5	l1	l3	t1	t2
M1100/12	**12**	36	32	16	M6	7	10	10	12
M1100/14	**14**	36	36	18	M8	7	12	10	16
M1100/16	**16**	46	40	20	M8	8.5	13.5	10	16
M1100/18	**18**	46	40	22	M8	8.5	13.5	10	16
M1100/20	**20**	46	45	25	M8	8.5	15	10	16
M1100/25	**25**	56	50	29	M8	10	16	12	16
M1100/30	**30**	66	63	34	M10	12	21	15	20

M1107 Kayar Maça Yatağı

Mat.: 1.0503 (C 45) Bronz ve Yağlama Sağlayan Grafit





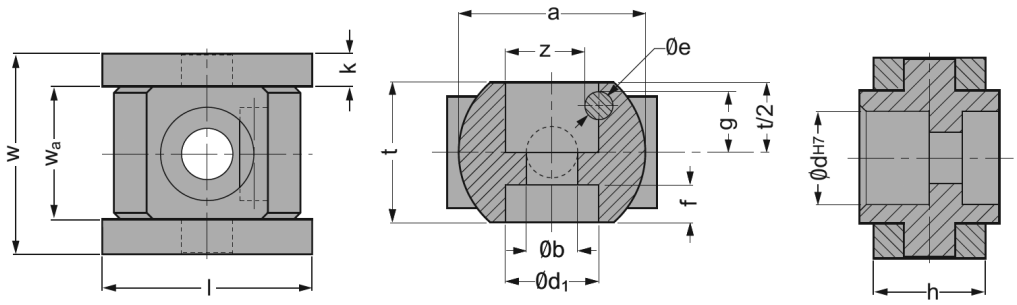
Kodu	D	d1	d2	a	b	c	e	f	M	k	h	h1	h2	h3	h4	h5	l	l1	l2	l3	l4	w	w1	w2	n	Cıvata
M1107/8	**8**	7	4.5	11	20	8	10	7	M3	10	22	12.5	5	11	7	10.5	32	24	20	20	3.6	33	30	19	3	M4
M1107/10	**10**	7	5.5	15	25	10	12.5	9	M4	18	27	15.5	5	15	8	11.3	45	32	30	25	4.5	45	40	25	4	M5
M1107/12	**12**	10	7	17	25	12	15	11	M6	20	32	18	7	16	10	4	50	39	35	30	5	57	51	31	6	M6
M1107/16	**16**	12	9	22	30	16	15	14.5	M6	25	36	20	8	20	10	5	65	46	40	40	5	65	58	38	6	M8
M1107/20	**20**	14	11	26	40	20	16	18	M8	30	42	23	11	22	12	8	80	56	55	50	5	80	72	44	8	M10
M1107/25	**25**	16	14	32	45	25	17	22.5	M10	35	50	28	15	26	15	8	90	66	65	55	6	93	85	52	10	M12
M1107/30	**30**	18	14	38	50	30	17	27	M10	40	55	30	15	30	15	9	100	74	70	60	7	101	93	60	10	M12
M1107/35	**35**	20	14	45	60	35	18	32	M12	45	62	35	15	34	18	10	120	85	80	75	8	120	110	70	10	M12
M1107/40	**40**	25	18	55	70	40	19	36	M12	50	70	40	15	44	18	12	135	95	90	85	8	130	120	80	10	M16
M1107/45	**45**	30	18	60	80	45	24	40	M12	55	80	45	15	50	20	14	150	105	110	95	10	140	130	90	10	M16

- Enjeksiyon kalıpları için açılı pimleri istenilen açıda hareket ettiren kayar maça ünitesidir.
- Bu üniteyle kalıplardan ürün uzaklaştırma benzerlerine göre daha ekonomiktir.
- Enjeksiyon kalıplarında grafitli yatak sistemi sayesinde 300°C'ye kadar sıcaklıkta kendini yağlayabilir.
- Ünite montajı sabitleme pimleri veya itici plakalara bağlanabilir.

M1109 Kalıba Montajlanabilen Eğimli Pim Ünitesi

Mat.: 1.0503 (C 45) Bronz ve Yağlama Sağlayan Grafit



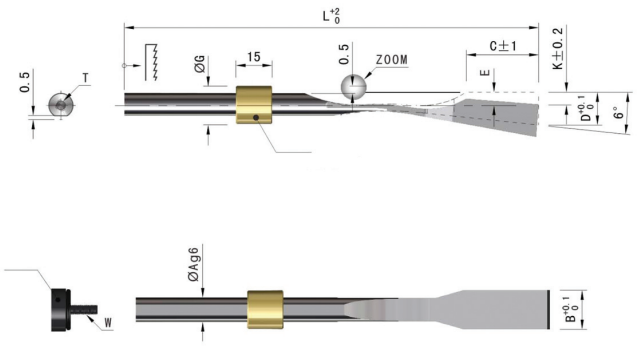


Sipariş Kodu	d	w	l	wa	k	h	a	t	f	g	z	b	d1	e
M1109/8	**8**	24	25	12	6	13	20	16	5	6.5	7.5	5	10	3
M1109/10	**10**	28	32	14	7	17	20	16	4	6.5	8.5	6	12	3
M1109/12	**12**	31	40	17	7	20	25	20	5	8.5	10	7	13	4
M1109/16	**16**	36	45	21	7.5	24	30	24	6	10	13	9	16	6
M1109/20	**20**	43	45	28	7.5	24	40	30	8	13	17	11	20	6
M1109/25	**25**	48	50	33	7.5	26	45	35	9.5	14	22	14	25	6
M1109/30	**30**	55	60	38	8.5	30	50	38	9	15	27	14	25	6
M1109/35	**35**	64	70	44	10	34	55	40	10	15	31	14	25	8
M1109/40	**40**	72	80	50	11	38	60	43	11.5	16	36	18	32	8

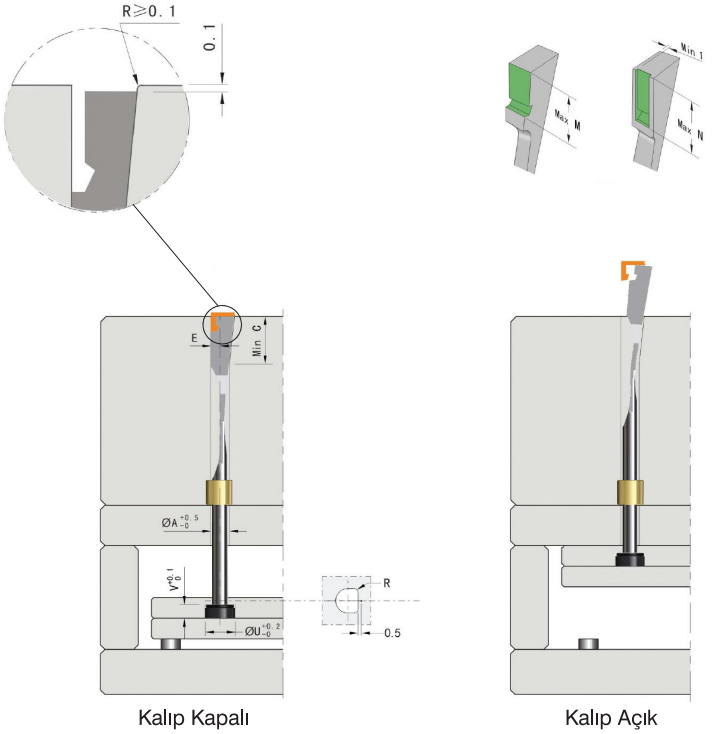
ML602 Hareketli Esnek İç Maça

Mat.: 1.7131 (16MnCr5) 56-58 HRC





Sipariş Kodu	A	B	C	D	E	G	K	L	M	N	R	U	V	T	W
ML602/060622	6	6.2	22	9	3.5	-	3.5	125	16	18	1.25	12	5	M4x36	M4x16
ML602/060630			30	10		12	4.5	175	20	26					
ML602/060822		8.2	22	9		-	3.5	125	16	18					
ML602/060830			30	10		12	4.5	175	20	26					
ML602/080825	8	10.2	25	11.5	4.5	-		140	18	21	2	14	6	M6x36	M5x16
ML602/081025															
ML602/081030			30	11.2		12		175	20	26					
ML602/081225		12.2	25	11.5		-		140	18	21					
ML602/081230			30	11.2		12		175	20	26					
ML602/101430	10	14.2		13.5	5.5	16	5.5				2.5	18	8	M6x36	M6x16
ML602/101630		16.2													
ML602/101830		18.2													



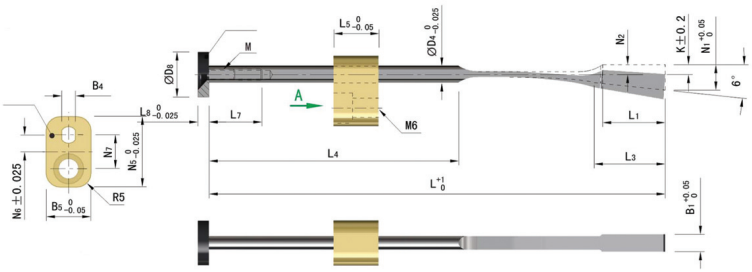
Kalıp Kapalı

Kalıp Açık

ML606 Hareketli Esnek İç Maça

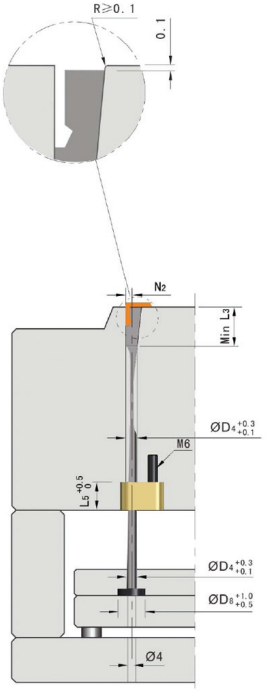
Mat.: 1.7131 (16MnCr5) 56-58 HRC



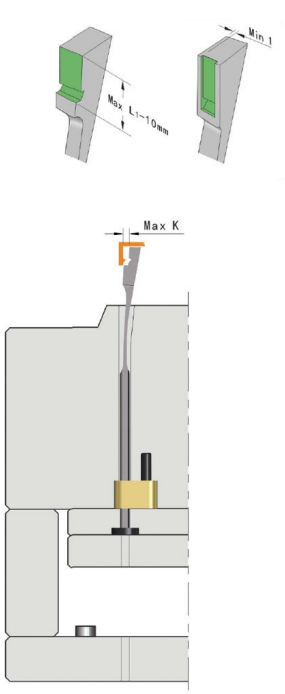


Sipariş Kodu	B4	B5	D4	D8	N5	N6	N7	M
ML602/6/9.0/162	4.83	16	5.94	16	25	6	12	M4
ML602/8/9.0/162	5.08		6.35					
ML602/10/11.5/200	7.37		7.92					M5
ML602/12/11.5/200								
ML602/14/12.5/200								
ML602/16/12.5/200								

B1	N1	L	L1	L3	L4	L5	L7	L8	N2	K
6.2	9	162	22	24.3	88	16	19	4	3.5	3.5
8.2										
10.2	11.5	200	26	30	111				4.5	4.5
12.2										
14.2	12.5		30	33.1	107					
16.2										



Kalıp Kapalı

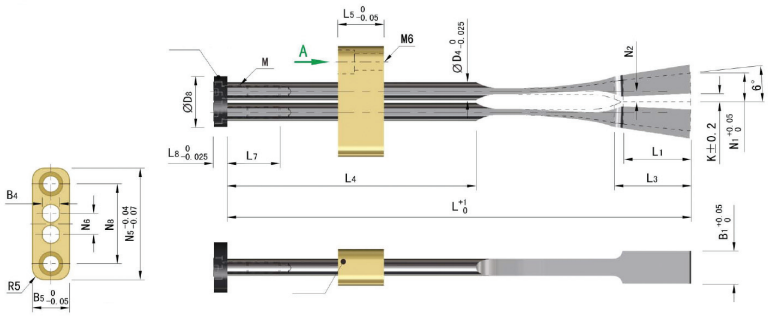


Kalıp Açık

ML610 Hareketli Esnek İç Maça

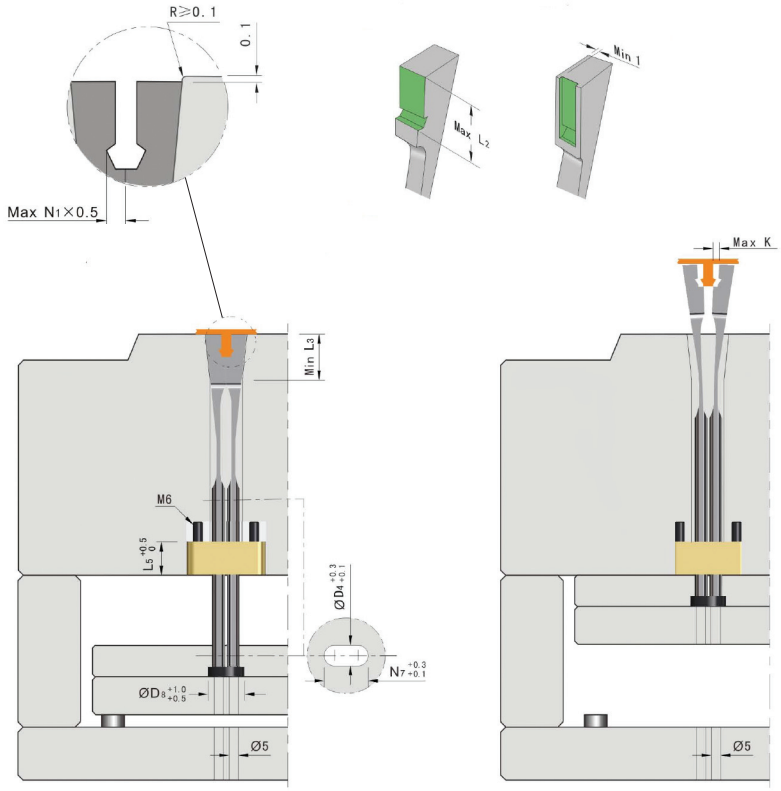
Mat.: 1.7131 (16MnCr5) 56-58 HRC





Sipariş Kodu	B4	B5	D4	D8	N7	N8	K	M
ML610/6/9.0/162	4.83	16	5.94	20	13	32.3	3.5	M4
ML610/12/11.5/200	7.37		7.92	22	17	34.3	4.5	M5
ML610/14/12.5/200								
ML610/16/12.5/200								

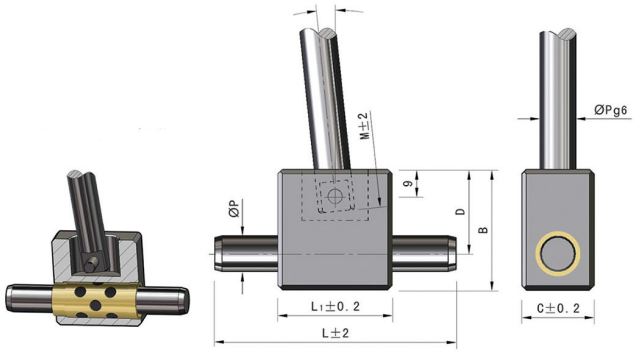
B1	N1	L	L1	L3	L4	L5	L7	L8	N2	L2	N5	N6
6.2	9	162	22	24.3	88	20	19	6	3.5	12.5	45	7
12.2	11.5	200	26	30.0	111				4.5	16.5	48	9
14.2	12.5		30	33.1	107					20		
16.2												



ML622 Açılı İç Maça Gövdesi

Mat.: 1.2312 54-56 HRC



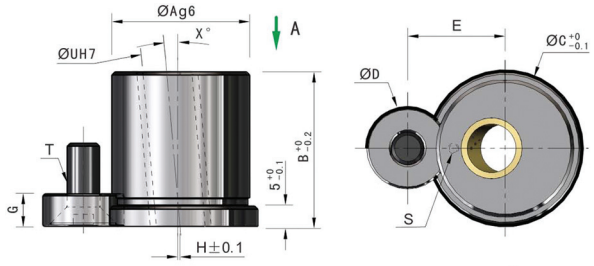


Sipariş Kodu	L1	B	C	D	L	M	P
ML622/32	32	37	20	27	80	180	10
ML622/38	38	38	24	28		210	12
ML622/45	45	44	28	30	100	250	16

ML624 Açılı Maça Klavuz Burcu Bronz

Mat.: 1.7242 54-56 HRC





Sipariş Kodu	A	B	C	D	E	G	H	U	X	S	T
ML624/10	30	34	34	34	20	6	0	10		M6x6	M6x16
ML624/20	34	38	38	38	24	8		12	5	M8x6	M8x20
ML624/30	40	40	44	44	27			16			
ML624/40	30	34	34	34	20	6	7	10		M6x6	M6x16
ML624/50	34	38	38	38	24	8	8.5	12	10	M8x6	M8x20
ML624/60	40	40	44	44	27			16			
ML624/70	30	34	34	34	20	6	7	10		M6x6	M6x16
ML624/80	34	38	38	38	24	8	8.5	12	15	M8x6	M8x20
ML624/90	40	40	44	44	27			16			
ML624/100	30	34	34	34	20	6	7	10		M6x6	M6x16
ML624/110	34	38	38	38	24	8	8.5	12	20	M8x6	M8x20
ML624/120	40	40	44	44	27			16			

ML626 Açılı Pim Tutucu

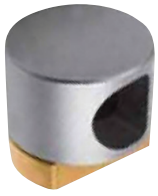
Mat.: 1.7242 58-62 HRC

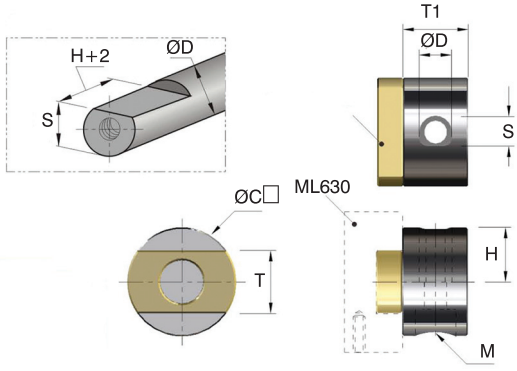


Sipariş Kodu	A	B	C	D	E	F	G	H	S	T	U	X°
ML626/10	18	26	22	12	10.8	10.8		3.8	M5x5	M5x16	10	
ML626/20	22	28	26	16	11	11	6	4	M6x6	M6x16	12	
ML626/30	28	34	32		13	13		5			16	
ML626/40	34	40	38	20	17	17		5.5			20	10
ML626/50	42	45	46		19.5	19.5	8	6	M8x6	M8x20	24	
ML626/60	46	50	50		21	21		7			28	
ML626/70	18	26	22	12	10.8	10.8		3.8	M5x5	M5x16	10	
ML626/80	22	28	26	16	11	11	6	4	M6x6	M6x16	12	
ML626/90	28	34	32		13	13		5			16	15
ML626/100	34	40	38	20	17	17	8	5.5	M8x6	M8x20	20	
ML626/110	42	45	46		19.5	19.5		6			24	
ML626/120	46	50	50		21	21		7			28	

ML628 Sabit Maça Kızağı

Mat.: INOX 1.4034 48 HRC



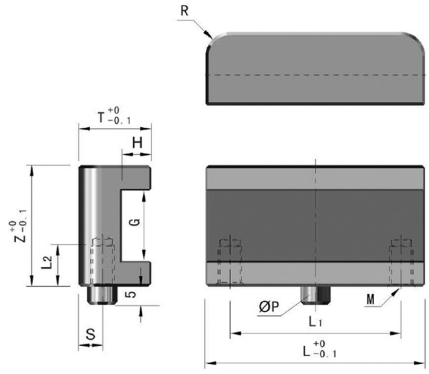


Sipariş Kodu	D	T1	C	T	H	S	M
ML628/6	6	12	20	11.5	10	5.5	M4 x 12
ML628/8	8					7.5	M5 x 12
ML628/10	10	16	24	13.5	12	9.5	M6 x 16
ML628/12	12					11	M6 x 16
ML628/16	16	20	32	19	16	14.5	M6 x 22
ML628/20	20	25	38	21	19	18.5	M10 x 25
ML628/25	25	31	48	28	24	23	M12 x 35

ML630 Açılı İç Maça Gövde Kızağı

Mat.: 1.2311 45 HRC



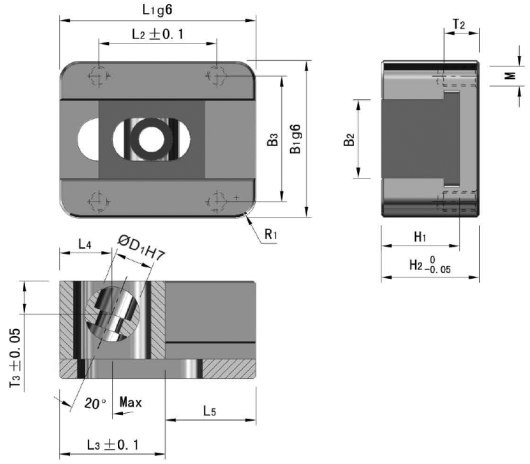


Sipariş Kodu	T	Z	L	S	H	G	L2	P	R	L1	M
ML630/12	12	20	36	4	4.8	11.5	10	Ø5x 12	4	28	M5
ML630/14	14	22	66		6.3					42	
ML630/16	16	24	40	5		13.5	12	Ø6x 14	5	30	M6
ML630/20	20	32	60		8.3	19	15			44	
ML630/25	25	38	72	7	10.3	21	18	Ø8x 18	6	56	M8
ML630/31	31	48	90	8	13.3	28		Ø10x 28	8	74	M10

ML631 Açılı İç Maça Gövde Kızağı

Mat.: 1.2311 45 HRC



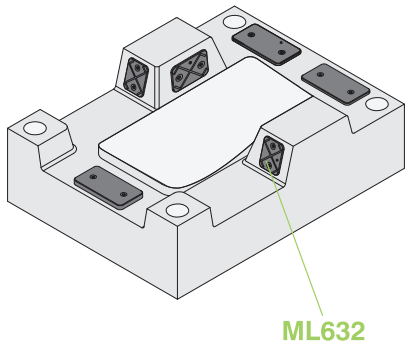


Sipariş Kodu	D1	B1	B2	B3	H1	H2	L1	L2	L3	L4	L5	T2	T3	R1	M
ML631/10	10	40	20	32	20	25	50	30	27	13.5	23	10	8.5	5	M5
ML631/14	14	48	25	39	28	35	70	50	35	17.5	35	12	12.5	6	M6

ML632 Basınç ve Ayar Plakası

Mat.: 1.2842 54-56 HRC

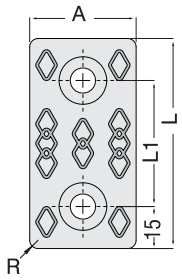




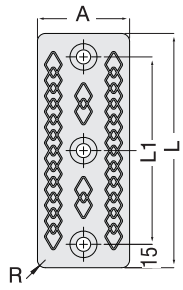
Sipariş Örneği ML632/AxL

A	L	L1	L2	T	R	D	Form	Havşa Başlı İnbus Cıvata
18	50	20	-	7	3	6.5	A	M6x20 2 Adet
	75	45						
	100	70						
	150	60					B	M6x20 3 Adet
28	50	20	-	7	3	9	A	M8x20 2 Adet
	75	45						
	100	70						
	150	60					B	M8x20 3 Adet
38	50	20	-	7	3	9	A	M8x20 2 Adet
	75	45						
	100	70						
	150	60					B	M8x20 3 Adet
48	75	45	-	7	5	9	A	M8x20 2 Adet
	100	70						
	125	95						
	150	60					B	M8x20 3 Adet
58	75	45	-	7	5	9	A	M8x20 2 Adet
	100	70						
	125	95						
	150	60					B	M8x20 3 Adet
78	75	45	48	7	5	9	C	M8x20 4 Adet
	100	70						
	125	95						
	150	60					D	M8x20 6 Adet

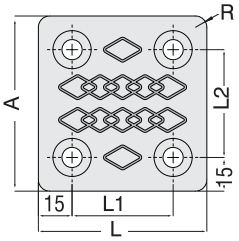
Form A

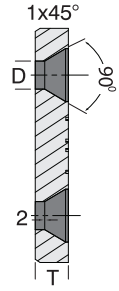


Form B

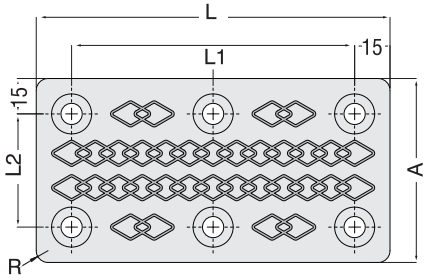


Form C





Form D



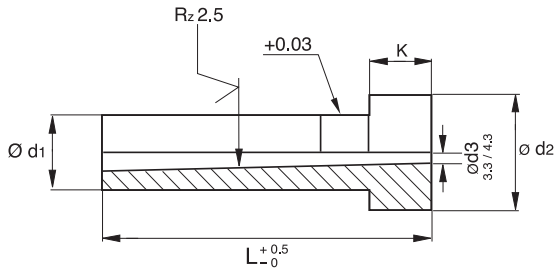
Kalıp Yollukları ve Yolluk Flanşları



M1902 Plastik Enjeksiyon Kalıp Yollukları

Mat.: 1.2826 Sertlik : 60-62 HRC





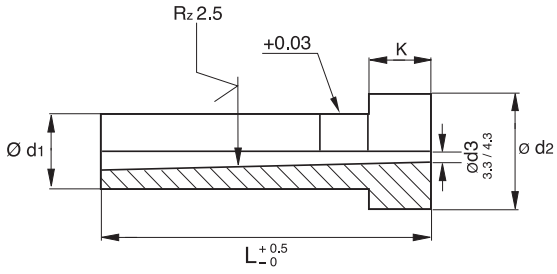
Sipariş Kodu	d1	L	d2	K	d3
M1902/ 12x50		50			
M1902/ 12x65		65			
M1902/ 12x75		75			
M1902/ 12x85		85			
M1902/ 12x95	**12**	95	28	20	3.3
M1902/ 12x105		105			4.3
M1902/ 12x115		115			
M1902/ 12x125		125			
M1902/ 12x135		135			
M1902/ 12x150		150			
M1902/ 12x200		200			
M1902/ 14x50		50			
M1902/ 14x65		65			
M1902/ 14x75		75			
M1902/ 14x85		85			
M1902/ 14x95		95			
M1902/ 14x105	**14**	105	28	20	3.3
M1902/ 14x115		115			4.3
M1902/ 14x125		125			
M1902/ 14x135		135			
M1902/ 14x150		150			
M1902/ 14x200		200			
M1902/ 16x50		50			
M1902/ 16x65		65			
M1902/ 16x75		75			
M1902/ 16x85		85			
M1902/ 16x95		95			
M1902/ 16x105	**16**	105	28	20	3.3
M1902/ 16x115		115			4.3
M1902/ 16x125		125			
M1902/ 16x135		135			
M1902/ 16x150		150			
M1902/ 16x200		200			

Sipariş Kodu	d1	L	d2	K	d3
M1902/ 18x50		50			
M1902/ 18x65		65			
M1902/ 18x75		75			
M1902/ 18x85		85			
M1902/ 18x95	**18**	95	28	20	3.3
M1902/ 18x105		105			4.3
M1902/ 18x115		115			
M1902/ 18x125		125			
M1902/ 18x135		135			
M1902/ 18x150		150			
M1902/ 18x200		200			
M1902/ 20x50		50			
M1902/ 20x65		65			
M1902/ 20x75		75			
M1902/ 20x85		85			
M1902/ 20x95		95			
M1902/ 20x105	**20**	105	28	20	3.3
M1902/ 20x115		115			4.3
M1902/ 20x125		125			
M1902/ 20x135		135			
M1902/ 20x150		150			
M1902/ 20x200		200			

M1904 Plastik Enjeksiyon Kalıp Yollukları

Mat.: 1.2344 Sertlik : 60-62 HRC





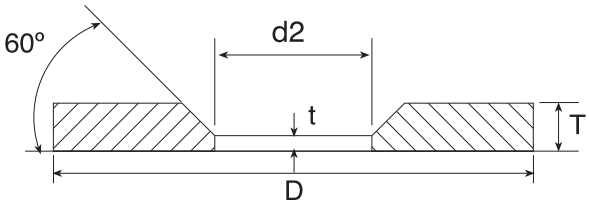
Sipariş Kodu	d1	L	d2	K	d3
M1904/ 12x50		50			
M1904/ 12x65		65			
M1904/ 12x75		75			
M1904/ 12x85		85			
M1904/ 12x95	**12**	95	28	20	5.6
M1904/ 12x105		105			
M1904/ 12x115		115			
M1904/ 12x125		125			
M1902/ 12x135		135			
M1904/ 14x50		50			
M1904/ 14x65		65			
M1904/ 14x75		75			
M1904/ 14x85	**14**	85	28	20	5.6
M1904/ 14x95		95			
M1904/ 14x105		105			
M1904/ 14x115		115			
M1904/ 14x125		125			
M1904/ 14x135		135			
M1904/ 16x50		50			
M1904/ 16x65		65			
M1904/ 16x75		75			
M1904/ 16x85	**16**	85	28	20	5.6
M1904/ 16x95		95			
M1904/ 16x105		105			
M1904/ 16x115		115			
M1904/ 16x125		125			
M1904/ 16x135		135			

Sipariş Kodu	d1	L	d2	K	d3
M1904/ 18x50		50			
M1904/ 18x65		65			
M1904/ 18x75		75			
M1904/ 18x85		85			
M1904/ 18x95	**18**	95	28	20	5.6
M1904/ 18x105		105			
M1904/ 18x115		115			
M1904/ 18x125		125			
M1904/ 18x135		135			
M1904/ 20x50		50			
M1904/ 20x65		65			
M1904/ 20x75		75			
M1904/ 20x85	**20**	85	28	20	5.6
M1904/ 20x95		95			
M1904/ 20x105		105			
M1904/ 20x115		115			
M1904/ 20x125		125			
M1904/ 20x135		135			

M1930 Yolluk Flanşı

Mat.: 1.2826 Sertlik : 60-62 HRC





Sipariş Kodu	D	d2	T	t
M1930/ 080	80	28	25	4
M1930/100	100	28	25	4
M1930/125	125	28	25	4
M1930/150	150	28	25	4
M1930/160	160	28	25	4
M1930/200	200	28	25	4
M1930/250	250	28	25	4

M1935 Metal Enjeksiyon Arka Yolluk

Mat.: 1.2826 Sertlik : 60-62 HRC

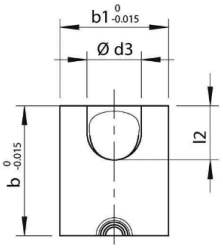


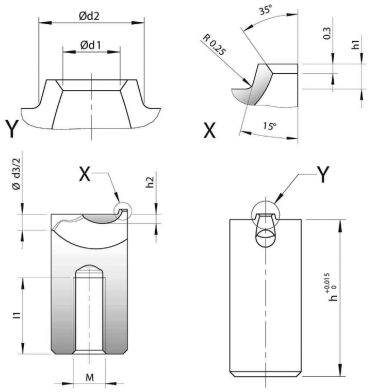
Sipariş Kodu	D	T	t
M1935/ 05	5°	15	4
M1935/ 07	7°	15	4
M1935/ 010	10°	15	4

M1940 Muz Yolluk Şapkalı Tip Dikdörtgen

Mat.: 1.2344 Sertlik : 60-62 HRC





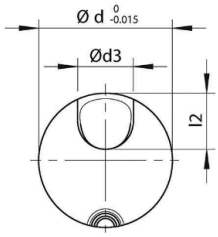


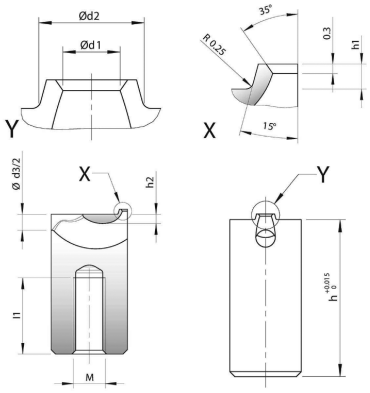
Sipariş Kodu	b	b1	d1	d2	d3	h	h1	h2	l1	l2	M
M1940/ 0806	8	6	0.6	1.9	3	22.0	0.6	1.1	13	3.25	4
M1940/ 0808			0.8	2.1							
M1940/ 1008	10	8	0.8	2.2	4	22.0	0.8	1.2	12	4	5
M1940/ 1012			1.2	2.6							
M1940/ 1016			1.6	3.0							
M1940/ 1212	12	10	1.2	2.6	5	22.0	0.8	1.40	11	5	5
M1940/ 1216			1.6	3.0							
M1940/ 1220			2.0	3.4							
M1940/ 1416	14	12	1.6	3.0	6	22.0	0.8	1.6	10	6	5
M1940/ 1420			2.0	3.4							
M1940/ 1424			2.4	3.8							
M1940/ 1428			2.8	4.2							

M1942 Muz Yolluk Şapkalı Tip Yuvarlak

Mat.: 1.2344 Sertlik : 60-62 HRC





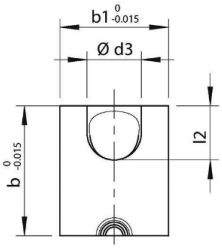


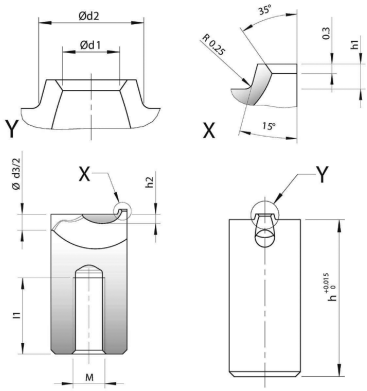
Sipariş Kodu	d	d1	d2	d3	h	h1	h2	l1	l2	M
M1942/ 0606	6	0.6	1.9	2.5	17.0	0.6	0.8	10	2.5	4
M1942/ 0806	8	0.6	1.9	3	22.0	0.6	1.1	13	3.25	4
M1942/ 0808		0.8	2.1							
M1942/ 1008	10	0.8	2.2	4	22.0	0.8	1.2	12	4	5
M1942/ 1012		1.2	2.6							
M1942/ 1016		1.6	3.0							
M1942/ 1212	12	1.2	2.6	5	22.0	0.8	1.4	11	5	5
M1942/ 1216		1.6	3.0							
M1942/ 1220		2.0	3.4							
M1942/ 1416	14	1.6	3.0	6	22.0	0.8	1.6	10	6	6
M1942/ 1420		2.0	3.4							
M1942/ 1424		2.4	3.8							
M1942/ 1428		2.8	4.2							

M1944 Muz Yolluk Şapkasız Tip Dikdörtgen

Mat.: 1.2344 Sertlik : 60-62 HRC





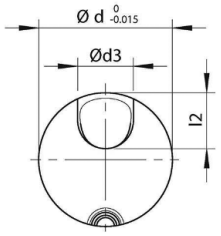


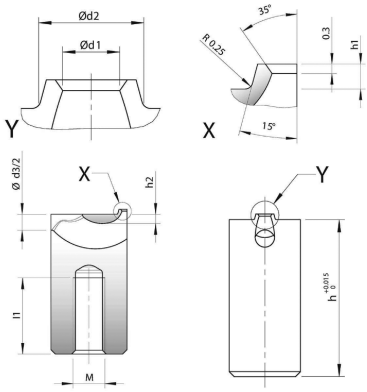
Sipariş Kodu	b	b1	d1	d3	h	h1	h2	l1	l2	M
M1944/ 0806	**8**	6	**0.6**	3	22.6	0.6	1.1	13	3.25	4
M1944/ 0808	**8**		**0.8**							
M1944/ 1008	**10**	8	**0.8**	4	22.8	0.8	2.0	12	4	5
M1944/ 1012	**10**		**1.2**							
M1944/ 1016	**10**		**1.6**							
M1944/ 1212	**12**	10	**1.2**	5	22.8	0.8	2.2	11	5	5
M1944/ 1216	**12**		**1.6**							
M1944/ 1220	**12**		**2.0**							
M1944/ 1416	**14**	12	**1.6**	6	22.0	0.8	2.4	10	6	5
M1944/ 1420	**14**		**2.0**							
M1944/ 1424	**14**		**2.4**							
M1944/ 1428	**14**		**2.8**							

M1946 Muz Yolluk Şapkasız Tip Yuvarlak

Mat.: 1.2344 Sertlik : 60-62 HRC







Sipariş Kodu	d	d1	d3	h	h1	h2	l1	l2	M
M1946/ 0606	**6**	**0.6**	2.5	17.6	0.6	1.4	10	2.5	4
M1946/ 0806	**8**	**0.6**	3	22.6	0.6	1.7	13	3.25	4
M1946/ 0808	**8**	**0.8**							
M1946/ 1008	**10**	**0.8**	4	22.8	0.8	2.0	12	4	5
M1946/ 1012	**10**	**1.2**							
M1946/ 1016	**10**	**1.6**							
M1946/ 1212	**12**	**1.2**	5	22.8	0.8	2.2	11	5	5
M1946/ 1216	**12**	**1.6**							
M1946/ 1220	**12**	**2.0**							
M1946/ 1416	**14**	**1.6**	6	22.8	0.8	2.4	10	6	6
M1946/ 1420	**14**	**2.0**							
M1946/ 1424	**14**	**2.4**							
M1946/ 1428	**14**	**2.8**							

Sıcaklık Düzenleyiciler



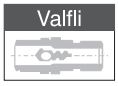
DEVPA Kalıp Elemanları

W590 SERİSİ



Otomatik Kaplinler *Standart Euro Seri*
Kullanım Alanları : Plastik, zamak, aluminyum enjeksiyon kalıplarının soğutma sistemlerinde, buhar hatlarında, sıcak yağ devrelerinde ve makinelerin yıkama ve soğutma sistemlerinde kullanılır.

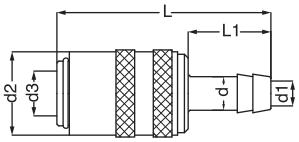
Gövde ve Kapak Valf = Pirinç / O-Ring = Viton
Yay, Segman ve Bilya = Paslanmaz / Rakor = Pirinç
Çalışma Basıncı = 0 - 15 bar / Akış Kapasitesi = 9 mm
Çalışma Sıcaklığı = 5 / 180°



Valfli : Kontrollü su akışı sağlanır.
Rakor çıkartılınca su akışı içinde kalır.

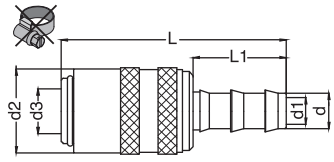


Valfsiz : Serbest su akışlı.
Rakor çıkartılınca devre açık kalır.



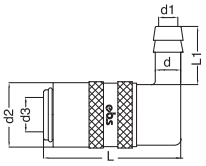
Hortum Girişli Otomatik Kaplin

Sipariş Kodu (Valfli)	Sipariş Kodu (Valfsiz)	d	d1	d2	d3	l	l1
W590HGB10	W590HG10	10	7.5	23	13	59	23
W590HGB13	W590HG13	13	10				



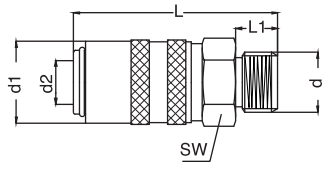
Hortum Girişli Otomatik Kaplin / Kelepçesiz Uygulama

Sipariş Kodu (Valfli)	Sipariş Kodu (Valfsiz)	d	d1	d2	d3	l	l1
W590FGB10	W590FG10	10	7.5	23	13	64	28
W590FGB13	W590FG13	13	10				



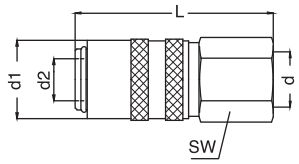
Hortum Girişli Kaplin 90°

Sipariş Kodu (Valfli)	Sipariş Kodu (Valfsiz)	d	d1	d2	d3	l	l1
W590LGB10	W590LG10	10	7.5	23	13	52	29
W590LGB13	W590LG13	13	10				



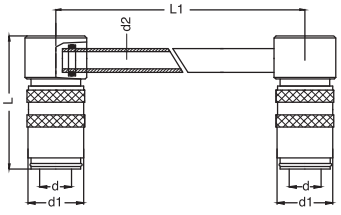
Erkek Girdili Kaplin

Sipariş Kodu (Valfli)	Sipariş Kodu (Valfsiz)	d	d1	d2	l	l1	sw
W590EGB13	W590EG13	BSP 1/4"	23	13	52	9	21
W590EGB17	W590EG17	BSP 3/8"					
W590EGB21	W590EG21	BSP 1/2"					
W590EGB16M	W590EG16M	M16 x1,5				10	



Dişi Girdili Kaplin

Sipariş Kodu (Valfli)	Sipariş Kodu (Valfsiz)	d	d1	d2	l	sw
W590DGB13	W590DG13	BSP 1/4"	23	13	52	21
W590DGB17	W590DG17	BSP 3/8"				21
W590DGB21	W590DG21	BSP 1/2"				24
W590DGB16M	W590DG16M	M16 x1,5				21



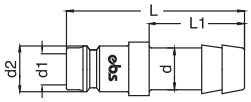
Köprü Bağlantılı Kaplin Grup

Sipariş Kodu	d	d1	d2	l	l1
W590KG125	13	23	10x1	52	125
W590KG250					250
W590KG500					500

W590 SERİSİ RAKORLARI

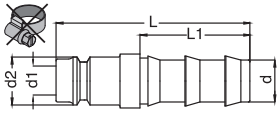
590 Serisi Kaplinlere Uygun Rakolar

Malzeme = Pirinç Çalışma Basıncı = 0 - 15 Bar Akış Kapasitesi = 9 mm Çalışma Sıcaklığı = -5 / +180°



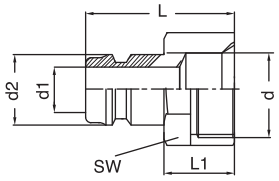
Hortum Girişli Rakor

Sipariş Kodu	d	d1	d2	l	l1
W590HR10	10	9	13	40	23
W590HR13	13			42	25



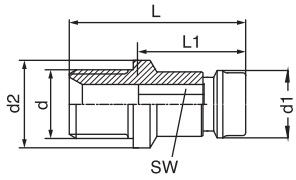
Kelepçesiz Hortum Girişli Rakor

Sipariş Kodu	d	d1	d2	l	l1
W590FHR10	10	9	13	43	28
W590FHR13	13			47	



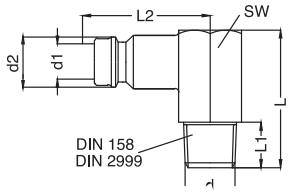
Dişi Girişli Otomatik Rakor

Sipariş Kodu	d	d1	d2	sw	l	l1
W590DR10	G 1/4″	9	13	16	28	9
W590DR13	G 3/8″			19		



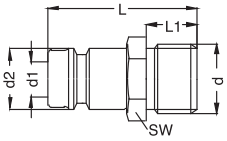
İçten Alyanlı Otomatik Girdili Rakor

Sipariş Kodu	d	d1	d2	sw	l	l1
W590AER10	G 1/4″	13	13.5	8	26	17
W590AER13	G 8/8″		17			
W590AERM14	M14 x 1.5		14.5			



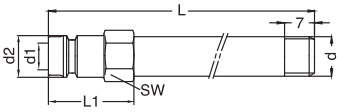
Erkek Girişli Otomatik Rakor 90°

Sipariş Kodu	d	d1	d2	sw	l	l1	l2
W590ER13-90	G 1/4″	9	13	15	34	10	25
W590ER17-90	G 8/8″			17			
W590ERM14-90	M14 x 1.5			15			



Otomatik Girdili Kalıp Rakoru

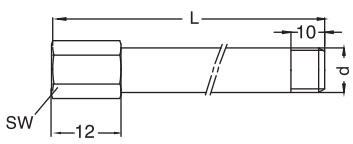
Sipariş Kodu	d	d1	d2	sw	l	l1
W590ORE10	G 1/8″	9	13	14	29	10
W590ORE13	G 1/4″					
W590ORE17	G 3/8″			17		
W590ORE21	G 1/2″			21		
W590OREM8	M8 x 1.25			14		
W590ORE10.1	M10 x 1.5					
W590OREM10	M10 x 1.0					
W590OREM12	M12 x 1.75					
W590OREM14	M14 x 1.5			21		
W590OREM16	M16 x 1.5					



Otomatik Girdili Kalıp Rakoru Uzun Model

Sipariş Kodu	d	d1	d2	sw	l	l1
W590OREM8-60	M8 x 1.25	9	13	14	60	20
W590OREM8-80					80	
W590OREM8-100					100	
W590OREM8-120					120	
W590OREM8-150					150	
W590OREM8-200					200	
W590OREM10-60	M10 x 1.5	9	13	14	60	20
W590OREM10-80					80	
W590OREM10-100					100	
W590OREM10-120					120	
W590OREM10-150					150	
W590OREM10-200					200	
W590OREM12-60	M12 x 1.75	9	13	14	60	20
W590OREM12-80					80	
W590OREM12-100					100	
W590OREM12-120					120	
W590OREM12-150					150	
W590OREM12-200					200	
W590ORE10-60	G 1/8″	9	13	14	60	20
W590ORE10-80					80	
W590ORE10-100					100	
W590ORE10-120					120	
W590ORE10-150					150	
W590ORE10-200					200	
W590ORE13-60	G 1/4″	9	13	14	60	20
W590ORE13-80					80	
W590ORE13-100					100	
W590ORE13-120					120	
W590ORE13-150					150	
W590ORE13-200					200	

Ara Uzatıcı Kalıp Rakoru



Sipariş Kodu	d	l	sw
W590ARU14.60	G 1/4″	60	14
W590ARU14.80		80	
W590ARU14.100		100	
W590ARU14.150		150	

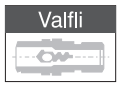
Sipariş Kodu	d	l	sw
W590ARU18.60	G 1/8″	60	16
W590ARU18.80		80	
W590ARU18.100		100	
W590ARU18.150		150	

W571 SERİSİ



Otomatik Kaplinler *ve Rakorlar - Büyük Seri*

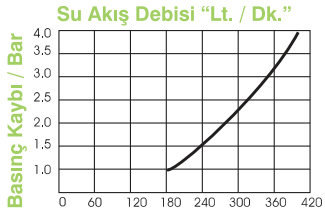
Gövde ve Kapak Valf = Pirinç / O-Ring NBR
Yay, Segman ve Bilya = Paslanmaz / Rakor = Pirinç
Çalışma Basıncı = 0 - 35 bar / Akış Kapasitesi = NW19
Çalışma Sıcaklığı = -20 / +100°



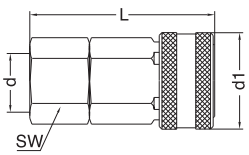
Valfli : Kontrollü su akışı sağlanır. Rakor çıkartılınca su akışı içinde kalır.



Valfsiz: Serbest su akışlı. Rakor çıkartılınca devre açık kalır.

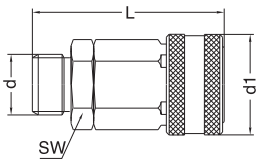


Dişi Girdili Kaplin



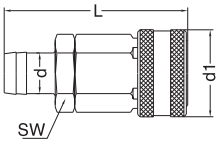
Sipariş Kodu (Valfli)	Sipariş Kodu (Valfsiz)	d	d1	L	sw
W571EBG 21	W571EG 21	BSP 1/2"	42	79	32
W571EBG 26	W571EG 26	BSP 3/4"	42	81	32
W571EBG 33	W571EG 33	BSP 1"	42	83	36
W571EBG 42	W571EG 42	BSP 1 1/4"	42	85	46

Erkek Girdili Kaplin



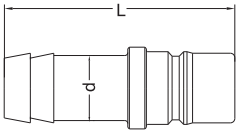
Sipariş Kodu (Valfli)	Sipariş Kodu (Valfsiz)	d	d1	L	sw
W571DGB 21	W571DG 21	BSP 1/2"	42	80	32
W571DGB 26	W571DG 26	BSP 3/4"	42	81	32
W571DGB 33	W571DG 33	BSP 1"	42	81	40
W571DGB 42	W571DG 42	BSP 1 1/4"	42	83	50

Hortum Girdili Kaplin



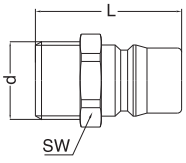
Sipariş Kodu (Valfli)	Sipariş Kodu (Valfsiz)	d	d1	L	sw
W571HGB 16	W571HG 16	16 mm-5/8"	42	100	32
W571HGB 19	W571HG 19	19 mm-3/4"	42	100	32
W571HGB 25	W571HG 25	25 mm-1"	42	100	32

Hortum Girdili Rakor



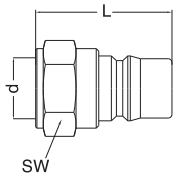
Sipariş Kodu (Valfsiz)	d	L
W571HR 16	16 mm-5/8"	66
W571HR 19	19 mm-3/4"	66
W571HR 25	25 mm-1"	66

Otomatik Rakor



Sipariş Kodu (Valfsiz)	d	L	sw
W571ER 26	BSP 3/4"	54	30
W571ER 33	BSP 1"	57	36
W571ER 42	BSP 1 1/4"	60	45

Somun Dişli Otomatik Rakor



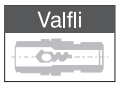
Sipariş Kodu (Valfsiz)	d	L	sw
W571DR 26	BSP 3/4"	51	32
W571DR 33	BSP 1"	54	40
W571DR 42	BSP 1 1/4"	54	50

W620 SERİSİ



Otomatik Kaplinler *ve Rakorlar - Büyük Seri*

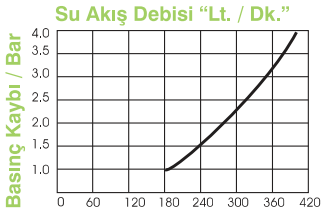
Gövde ve Kapak Valf = Pirinç / O-Ring NBR
Yay, Segman ve Bilya = Paslanmaz / Rakor = Pirinç
Çalışma Basıncı = 0 - 15 bar / Akış Kapasitesi = NW13
Çalışma Sıcaklığı = -5 / +180°

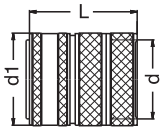


Valfli : Kontrollü su akışı sağlanır. Rakor çıkartılınca su akışı içinde kalır.



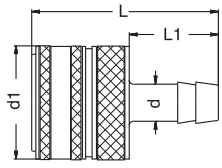
Valfsiz: Serbest su akışlı. Rakor çıkartılınca devre açık kalır.





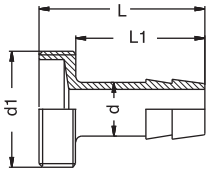
Hortum Girdili Otomatik Dişi Kaplin

Sipariş Kodu (Valfli)	Sipariş Kodu (Valfsiz)	d	d1	L
W620DBG 26	W620DG 26	BSP 3/4"	30	45
W620DBG 21	W620DG 21	BSP 1/2"	30	45



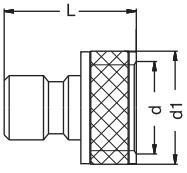
Hortum Girdili Otomatik Kaplin

Sipariş Kodu	d	d1	L	L1
W620HG 09	9 mm	30	55	23
W620HG 13	13 mm	30	55	23
W620HG 16	16 mm	30	55	23
W620HG 19	19 mm	30	55	23



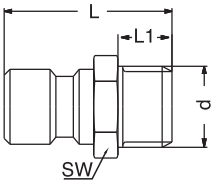
Hortum Girdili Rakor

Sipariş Kodu	d	d1	L	L1
W620GR 09	9 mm	G 3/4"	31	23
W620GR 13	13 mm	G 3/4"	31	23
W620GR 16	16 mm	G 3/4"	31	23
W620GR 19	19 mm	G 3/4"	31	23



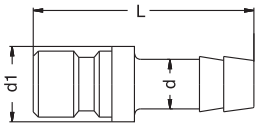
Tırtıllı Dişi Girdili Rakor

Sipariş Kodu	d	d1	L
W620DR 13	BSP 1/4"	19	27
W620DR 17	BSP 3/8"	19	27
W620DR 21	BSP 1/2"	24	27
W620DR M22	M22x1	25	27
W620DR 26	BSP 3/4"	30	27



Otomatik Rakor

Sipariş Kodu	d	L	L1	sw
W620ER 13	BSP 1/4"	33	9	19
W620ER 17	BSP 3/8"	33	9	19
W620ER 21	BSP 1/2"	36	12	22
W620ER 26	BSP 3/4"	41	14	30
W620ER 33	BSP 1"	44	15	34



Hortum Girdili Rakor

Sipariş Kodu	d	d1	L
W620HR 09	9 mm	19	47
W620HR 13	13 mm	19	47
W620HR 16	16 mm	19	47
W620HR 19	19 mm	23	47

DEVPA Kalıp Elemanları

W600 SERİSİ



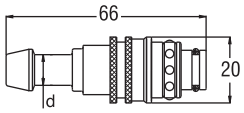
Otomatik Kaplinler *ve Rakorlar - Renkli Seri*

Kullanım Alanları : Plastik, zamak, aluminyum enjeksiyon kalıplarının soğutma sistemlerinde, buhar hatlarında, sıcak yağ devrelerinde ve makinelerin yıkama ve soğutma sistemlerinde kullanılır.

Renk Halkası = Sıcak ve soğut su hatlarının ayrımı içindir.
Gövde ve Kapak Valf = Nikel Kaplama Pirinç / O-Ring NBR
Yay, Segman ve Bilya = Paslanmaz / Rakor = Nikel Kaplama Pirinç
Çalışma Basıncı = 0 - 10 bar / Akış Kapasitesi = 8 mm
Çalışma Sıcaklığı = -20 / +90°

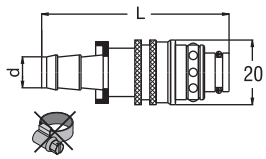
Renk halkası ile birlikte sipariş vermek istiyorsanız ;
Soğuk - Mavi = B **Sıcak - Kırmızı =R**
Örnek Sipariş **W600HG10B veya W600HG10R**

Hortum Girdili Otomatik Kaplin



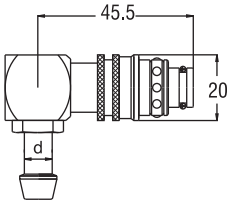
Sipariş Kodu	d
W600HG06	1/4" - 6mm
W600HG08	5/16" - 8mm
W600HG10	3/8" - 10mm
W600HG12	15/32" - 12mm
W600HG13	1/2" - 13mm

Hortum Girdili Otomatik Kaplin



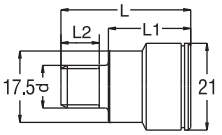
Sipariş Kodu	d	l
W600FG10	3/8" - 10mm	37
W600FG13	1/2" - 13mm	40

Hortum Girdili Kaplin 90°

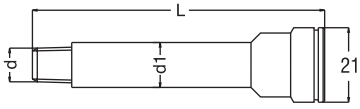


Sipariş Kodu	d
W600HA06	1/4" - 6mm
W600HA08	5/16" - 8mm
W600HA10	3/8" - 10mm
W600HA12	5/32" - 12mm
W600HA13	1/2" - 13mm

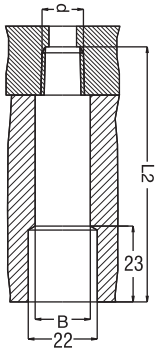
Otomatik Rakor



Sipariş Kodu	d	L1	L2	L
W600ER 10	BSPT 1/8"	21	8	31
W600ER 13	BSPT 1/4"	21	10	33
W600ER 17	BSPT 3/8"	11	11	24
W600NR 10	NPT 1/8"	21	7	31
W600NR 13	NPT 1/4"	21	10	33
W600NR 17	NPT 3/8"	11	11	24
W600NR M10.1	M10 x 1"	21	10	31
W600ER M10	M10 x 1.5"	21	10	31
W600ER M12	M12 x 1.75"	21	11	31
W600ER M14	M14 x 1.5"	21	11	31



Otomatik Rakor Uzun Tip

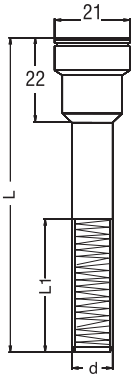


Sipariş Kodu	d	L Min. Max	L2	d1	B
W600ER 10x100	BSP 1/8"	33~100	L - 5.5	10.2	11
W600ER 10x150		100~150			
W600ER 10x200		150~200			
W600ER 13x100		200~250			
W600ER 13x100	BSP 1/4"	33~100	L - 7.5	13.5	14
W600ER 13x150		100~150			
W600ER 13x200		150~200			
W600ER 13x250		200~250			



Otomatik Dişsiz Uzun Rakor

Sipariş Kodu	d	L	B	sw
W600BU 10.50	10.2	50	11	6
W600BU 10.100		100		
W600BU 10.150		150		
W600BU 13.50	13.5	50	14	8
W600BU 13.100		100		
W600BU 13.150		150		
W600BU 13.200		200		



Otomatik Dişli Uzun Rakor

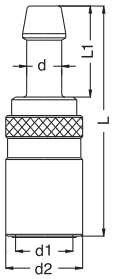
Sipariş Kodu	d	L1	L	sw
W600UR 10.50	BSPT 1/8"	50	26	6
W600UR 10.100		100	60	
W600UR 10.150		150	60	
W600UR 13.50	BSPT 1/4"	50	27	8
W600UR 13.100		100	60	
W600UR 13.150		150	60	
W600UR 13.200		200	60	

W601 SERİSİ



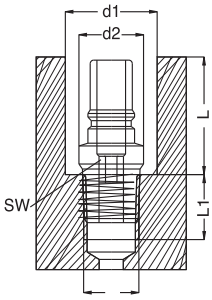
Otomatik Kaplinler *ve Rakorlar - Hassas Seri (Sıkı Bağlama)*
Kullanım Alanları : Plastik, zamak, aluminyum enjeksiyon kalıplarının soğutma sistemlerinde, buhar hatlarında, sıcak yağ devrelerinde ve makinelerin yıkama ve soğutma sistemlerinde kullanılır.

Gövde = Pirinç ***Kapak Valf*** = 420 Paslanmaz **O-Ring** = Viton
Yay, Segman ve Bilya = Paslanmaz
Çalışma Basıncı = 0 - 16 bar / Akış Kapasitesi = 6-9-10-12-16 mm
Çalışma Sıcaklığı = -10 / +180°



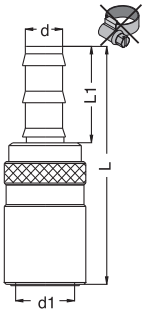
Hortum Girdili Otomatik Kaplin

Sipariş Kodu Valfsiz	Sipariş Kodu Valfli	d	d1	L	L1
W601HG08	W601HGB08	8	19	60	23
W601HG12	W601HGB12	12	25	69.5	28
W601HG13	W601HGB13	13	31	82	28
W601HG14	W601HGB14	16	31	82	28
W601HG16	W601HGB16	16	32	109	28
W601HG19	W601HGB19	19	38	114	33



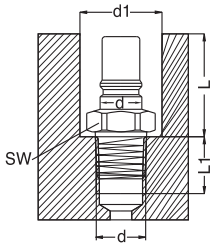
İçten Allenli Otomatik Rakor

Sipariş Kodu	d	d1	d2	L	L1
W601RR10	BSPT 1/8″	20	10	26	9
W601RR13	BSPT 1/4″	20	14	27	12
W601RR14	BSPT 1/4″	26	14	26	12
W601RR17	BSPT 3/2″	26	17	28	13
W601RR18	BSPT 3/8″	33	18	31	13



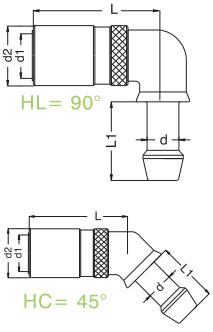
Hortum Girdili Otomatik Kaplin

Sipariş Kodu Valfsiz	Sipariş Kodu Valfli	d	d1	L	L1
W601FG10	W601FGB10	10	19	60	24
W601FG12	W601FGB12	10	25	69.5	24
W601FG13	W601FGB13	13	31	69.5	28
W601FG14	W601FGB14	13	31	92	38
W601FG16	W601FGB16	16	38	109	38
W601FG19	W601FGB19	19	38	109	38



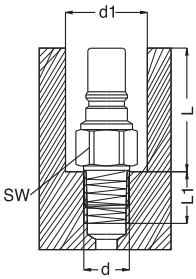
Erkek Girdili Rakor

Sipariş Kodu	d	d1	L	L1	sw
W601TR17	NPT 3/8″	36	29	11	24
W601RR21	BSPT 1/2″	33	29	15	22
W601TR22	NPT 1/2″	33	29	15	22
W601RR26	BSPT 3/4″	40	47	19	27



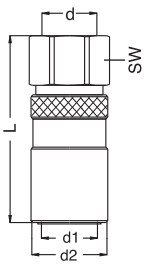
Hortum Girdili Kaplin / 90° ve 45°

Sipariş Kodu Valfsiz	Sipariş Kodu Valfli	d	d1	L	L1
W601HL08	W601HLB08	08	19	59	23
W601HL10	W601HLB10	10	25	60	28
W601HL12	W601HLB12	12	25	65	28
W601HL16	W601HLB16	16	31	82	28
W601HL19	W601HLB19	19	38	132	60
W601HC08	W601HCB08	08	19	59	23



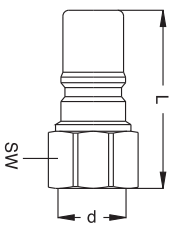
Erkek Girdili Kademeli Rakor

Sipariş Kodu	d	d1	L	L1	sw
W601RRB10	BSPT 1/8″	26	33	9	17
W601RRB13	BSPT 1/4″	26	33	12	17
W601RRB14	BSPT 1/4″	29	38.5	12	19
W601RRB17	BSPT 3/8″	29	38.5	13	20
W601RRB18	BSPT 3/8″	36	46.5	13	24
W601RRB21	BSPT 1/2″	36	46.5	15	24
W601RRB26	BSPT 3/4″	46	67	16	32



Dişi Girdili Kaplin

Sipariş Kodu Valfsiz	Sipariş Kodu Valfli	d	d1	L	sw
W601DG13	W601DBG13	BSP 1/4″	19	46	17
W601DG17	W601DBG17	BSP 3/8″	25	53	22
W601DG21	W601DBG21	BSP 1/2″	31	67	27
W601NG21	W601NBG21	NPT 1/2″	31	67	27
W601DG26	W601DBG26	BSP 3/4″	38	90	35
W601NG26	W601NBG26	NPT 3/4″	38	90	35



Dişi Girdili Rakor

Sipariş Kodu	d	L	sw
W601DR13	BSPT 1/4″	34	17
W601DR17	BSPT 3/8″	37	22
W601DR21	BSPT 1/2″	45	27
W601DR26	BSPT 3/4″	58	32

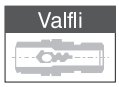
DEVPA Kalıp Elemanları

W509 SERİSİ



Otomatik Kaplinler *ve Rakorlar - USA Seri*
Kullanım Alanları : Plastik, zamak, aluminyum enjeksiyon kalıplarının soğutma sistemlerinde, buhar hatlarında, sıcak yağ devrelerinde ve makinelerin yıkama ve soğutma sistemlerinde kullanılır

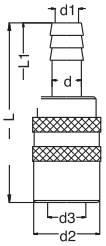
Gövde ve Kapak Valf = Pirinç ***O-Ring*** = Viton
Yay, Segman ve Bilya = Paslanmaz ***Rakor*** = Pirinç
Çalışma Basıncı = 0 - 16 bar / Akış Kapasitesi = 9 mm
Çalışma Sıcaklığı = -5 / +180°



Valfli : Kontrollü su akışı sağlanır. Rakor çıkartılınca su akışı içinde kalır.

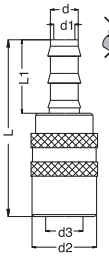


Valfsiz: Serbest su akışlı. Rakor çıkartılınca devre açık kalır.



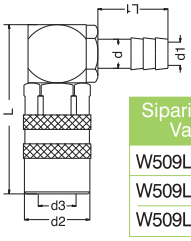
Hortum Girdili Otomatik Kaplin - USA

Sipariş Kodu Valfsiz	Sipariş Kodu Valfli	d	d1	d2	d3	L	L1
W509HG10	W509HGB10	10	8	23	13	68	29
W509HG11	W509HGB11	11	9				
W509HG13	W509HGB13	13	10				



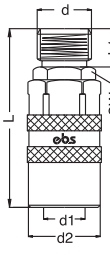
Hortum Girdili Otomatik Kaplin - USA

Sipariş Kodu Valfsiz	Sipariş Kodu Valfli	d	d1	d2	d3	L	L1
W509FG10	W509FGB10	10	8	23	13	68	29
W509FG13	W509FGB13	13	10				



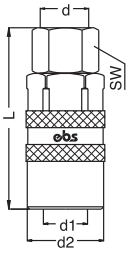
Hortum Girdili Kaplin 90°

Sipariş Kodu Valfsiz	Sipariş Kodu Valfli	d	d1	d2	d3	L	L1
W509LG10-90	W509LGB10-90	10	8	23	13	39	29
W509LG11-90	W509LGB11-90	11	9				
W509LG13-90	W509LGB13-90	13	10				



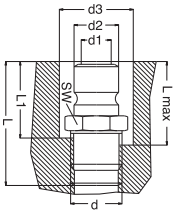
Erkek Girdili Kaplin

Sipariş Kodu Valfsiz	Sipariş Kodu Valfli	d	d1	d2	L	L1	sw
W509EG13	W509EGB13	BSP 1/4''	23	13	59	9	17
W509EG16	W509EGB16	M16 x 1.5					17
W509EG17	W509EGB17	BSP 3/8''					19
W509EG18	W509EGB18	M18 x 1,5					19
W509EG21	W509EGB21	BSP 1/2''					24



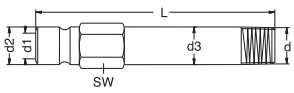
Dişi Girdili Kaplin

Sipariş Kodu Valfsiz	Sipariş Kodu Valfli	d	d1	d2	L	sw
W509DG13	W509DGB13	BSP 1/4''	23	13	52	17
W509DG17	W509DGB17	BSP 3/8''				21
W509DG21	W509DGB21	BSP 1/2''				24



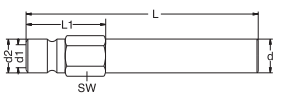
Otomatik Rakor

Sipariş Kodu	d	d1	d2	d3	L	sw
W509ER100	M14x1.5	14	13	9	100	15
W509ER150					150	
W509ER200					200	
W509ER250					250	
W509ER300					300	



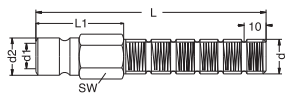
Otomatik Rakor Uzun Tip

Sipariş Kodu	d	d3	l1	lmax	l
W509ER10	1/8''	26	25	26	30
W509ER13	1/4''	30	25	22	33
W509ER17	3/8''	30	26	22	33
W509ER21	1/2''	32	26	26	37
W509ERM14	M14 x 1.5	28	25	26	33



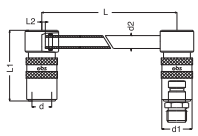
Otomatik Dişsiz Uzun Rakor

Sipariş Kodu	d	d1	d2	L	L1	sw
W509BN100	Ø 14	9	13	100	23	15
W509BN150				150		
W509BN200				200		
W509BN250				250		
W509BN300				300		



Otomatik Dişli Uzun Rakor

Sipariş Kodu	d	d1	d2	L	L1	sw
W509BL13	BSPT 1/4''	9	13	100	40	14
W509BL17	BSPT 3/8''					17
W509BLM10	M10 x 1					14
W509BLM14	M14 x 1.5					14
W509BLM16	M16 x 1.5					17



Köprü Bağlantılı Kaplin Grup

Sipariş Kodu	d	d1	d2	L	L1
W590KG125	13	23	8x1	41	125
W590KG250					250
W590KG500					500

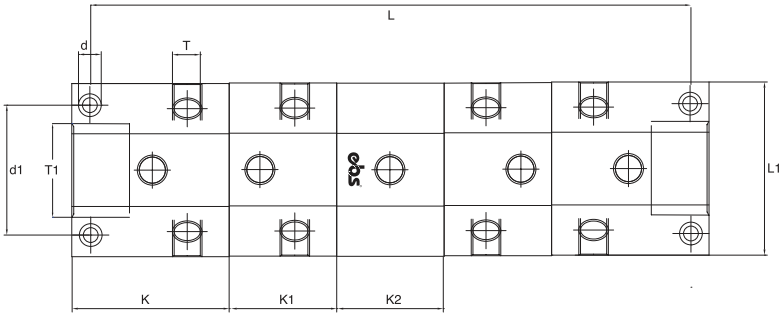
WAK1017 SERİSİ

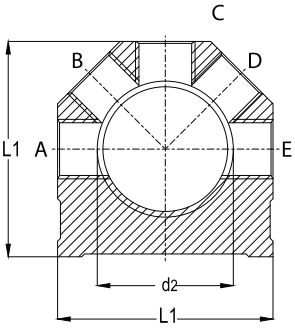


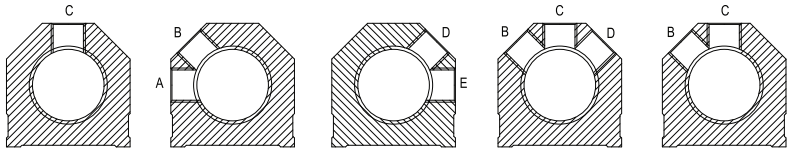


Su Dağıtım Kollektörü
Kullanım Alanları : Enjeksiyon kalıp soğutma suyunun dağıtımı, giriş ve çıkış düzenleme sistemi.

Malzeme = Aluminyum + Eloksal Boyalı







Sipariş Kodu	L	L1	d	d1	K	K1	K2	T	T1	Giriş Sayısı	Çıkış Sayısı
W1017 13-33-10	176	55	7	43,4	45	32	20	1/4	1''	5	5
W1017 13-33-20	240	55	7	43,4	45	32	20	1/4	1''	10	10
W1017 13-33-30	304	55	7	43,4	45	32	20	1/4	1''	15	15
W1017 13-33-40	368	55	7	43,4	45	32	20	1/4	1''	20	20

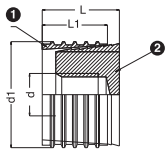
Sipariş Kodu	L	L1	d	d1	K	K1	K2	T	T1	Giriş Sayısı	Çıkış Sayısı
W1017 17-33-10	176	55	7	43,4	46	32	20	3/8	1''	5	5
W1017 17-33-20	240	55	7	43,4	46	32	20	3/8	1''	10	10
W1017 17-33-30	304	55	7	43,4	46	32	20	3/8	1''	15	15
W1017 17-33-40	368	55	7	43,4	46	32	20	3/8	1''	20	20

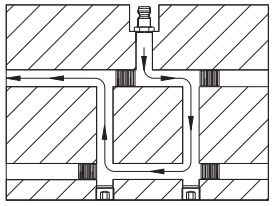
Sipariş Kodu	L	L1	d	d1	K	K1	K2	T	T1	Giriş Sayısı	Çıkış Sayısı
W1017 21-42-10	216	80	9	62,5	58	38	24	1/2	1''1/4	5	5
W1017 21-42-20	292	80	9	62,5	58	38	24	1/2	1''1/4	10	10
W1017 21-42-30	368	80	9	62,5	58	38	24	1/2	1''1/4	15	15

WSYT SERİSİ SU YOLLUK TIKAÇLARI



Sipariş Kodu	d	d1	L1	L
WSKT-06	M3	6	6	11.5
WSKT-08	M4	8	8	11.5
WSKT-10	M6	10	10	14
WSKT-12	M6	12	12	14
WSKT-15	M8	15	15	16
WSKT-16	M8	16	16	16
WSKT-20	M8	20	20	16





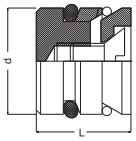


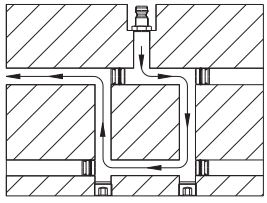
NBR



Viton

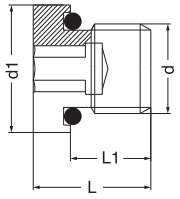
Sipariş Kodu (NBR)	Sipariş Kodu (Viton)	d	L
WTK-06	WTKV-06	6	10
WTK-08	WTKV-08	8	10
WTK-10	WTKV-10	10	10
WTK-12	WTKV-12	12	10
WTK-15	WTKV-15	14	12
WTK-16	WTKV-16	16	12
WTK-20	WTKV-20	20	12

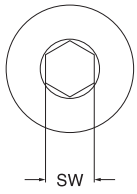


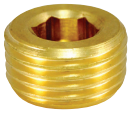




Sipariş Kodu	d	d1	L	L1	sw
WOSKTR10	G1/8"	14	10	7	5
WOSKTR13	G1/4"	18	11	8	7
WOSKTR17	G3/8"	22	12	9	8
WOSKTR21	G1/2"	24	13	9.5	10
WOSKTR26	G3/4"	32	15	11.5	12
WOSKTR33	G1"	39	15	11.5	14
WOSKTR M10	M10x1	14	10	7	5
WOSKTR M12	M12x1.5	17	11	8	6
WOSKTR M14	M14x1.5	19	12	9	8
WOSKTR M16	M16x1.5	21	12	9.5	10
WOSKTR M22	M22x1.5	27	13	11.5	14
WOSKTR M24	M24x1.5	30	15	11.5	14

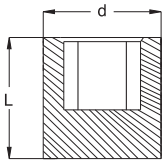


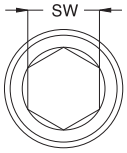




Düz Tip Pirinç

Sipariş Kodu	d	L	sw
WKT/18	G1/8"	8	5
WKT/14	G1/4"	10	7
WKT/38	G3/8"	10	8
WKT/12	G1/2"	10	10
WKT/M06	M6x075	8	3
WKT/M08	M8x075	8	4
WKT/M10	M10x1	10	5
WKT/M12	M12x1,5	10	6
WKT/M14	M14x1,5	10	7





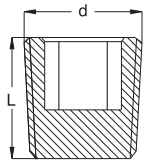


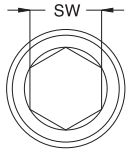
Konik Tip Pirinç



Konik Tip Çelik

Sipariş Kodu	Sipariş Kodu (Çelik)	d	L	sw
WKTP/18	WKTPC/18	NPT1/8"	8	5
WKTP/14	WKTPC/14	NPT1/4"	10	7
WKTP/38	WKTPC/38	NPT3/8"	10	8
WKTP/12	WKTPC/12	NPT1/2"	10	10





WAKS SERİSİ RAKOR BAĞLANTI

"TE" Sarı Rakorlar



Sipariş Kodu	Ölçü
WTE10	1/8"
WTE13	1/4"
WTE17	3/8"
WTE21	1/2"
WTE26	3/4"
WTE33	1"

Dirsek



Sipariş Kodu	Ölçü
WDR10	1/8"
WDR13	1/4"
WDR17	3/8"
WDR21	1/2"
WDR26	3/4"
WDR33	1"

Kuyruklu Dirsek



Sipariş Kodu	Ölçü
WKDR10	1/8"
WKDR13	1/4"
WKDR17	3/8"
WKDR21	1/2"
WKDR26	3/4"
WKDR33	1"

Şapkalı Kör Tapa



Sipariş Kodu	Ölçü
WTP10	1/8"
WTP13	1/4"
WTP17	3/8"
WTP21	1/2"
WTP26	3/4"
WTP33	1"

Manşon



Sipariş Kodu	Ölçü
WMN10	1/8"
WMN13	1/4"
WMN17	3/8"
WMN21	1/2"
WMN26	3/4"
WMN33	1"

Kruva



Sipariş Kodu	Ölçü
WKRV10	1/8"
WKRV13	1/4"
WKRV17	3/8"
WKRV21	1/2"
WKRV26	3/4"
WKRV33	1"

Hortum "TE"



Sipariş Kodu	Ölçü
WHTE06	6 mm
WHTE08	8 mm
WHTE10	10 mm
WHTE12	12 mm
WHTE16	16 mm
WHTE20	20 mm

Hortum Eki



Sipariş Kodu	Ölçü
WHE06	6 mm
WHE08	8 mm
WHE10	10 mm
WHE12	12 mm
WHE16	16 mm
WHE20	20 mm

Hortum Eki



Sipariş Kodu	Ölçü
WFE06	6 mm
WFE08	8 mm
WFE10	10 mm
WFE12	12 mm
WFE16	16 mm
WFE20	20 mm

İkili ve Üçlü Çatal



Sipariş Kodu	Ölçü
W2G14	İkili 1/4"
W2G38	İkili 3/8"
W2G12	İkili 1/2"
W3G14	Üçlü 1/4"
W3G38	Üçlü 3/8"
W3G12	Üçlü 1/2"



Redüksiyon

Sipariş Kodu	Ölçü Dişi	Ölçü Erkek
WRD 10/13	G 1/8"	G 1/4"
WRD 17/13	G 3/8"	G 1/4"
WRD 10/17	G 1/8"	G 3/8"
WRD 10/21	G 1/8"	G 1/2"
WRD 13/17	G 1/4"	G 3/8"
WRD 13/21	G 1/4"	G 1/2"
WRD 17/21	G 3/8"	G 1/2"
WRD 17/26	G 3/8"	G 3/4"
WRD 21/26	G 1/2"	G 3/4"
WRD 21/33	G 1/2"	G 1"
WRD 26/33	G 3/4"	G 1"



Düz Nipel / Orantılı Nipel

Sipariş Kodu	Ölçü Dişi	Ölçü Erkek
WNP 10/10	G 1/8"	G 1/8"
WNP 10/17	G 1/8"	G 3/8"
WNP 10/21	G 1/8"	G 1/2"
WRD 13/13	G 1/4"	G 1/4"
WRD 13/17	G 1/4"	G 3/8"
WRD 13/21	G 1/4"	G 1/2"
WRD 13/26	G 1/4"	G 3/4"
WRD 17/17	G 3/8"	G 3/8"
WRD 17/21	G 3/8"	G 1/2"
WRD 17/26	G 3/8"	G 3/4"
WRD 21/21	G 1/2"	G 1/2"
WRD 21/26	G 1/2"	G 3/4"
WRD 21/33	G 1/2"	G 1"
WRD 26/26	G 3/4"	G 3/4"
WRD 26/33	G 3/4"	G 1"
WRD 33/33	G 1"	G 1"



Hortum Rakor

Sipariş Kodu	Ölçü
WSHR1806	1/8"x6
WSHR1808	1/8"x8
WSHR1810	1/8"x10
WSHR1813	1/8"x13
WSHR1408	1/4"x8
WSHR1410	1/4"x10
WSHR1413	1/4"x13
WSHR1416	1/4"x16
WSHR3810	3/8"x10
WSHR3813	3/8"x13
WSHR3816	3/8"x16
WSHR3819	3/8"x19
WSHR1210	1/2"x10
WSHR1213	1/2"x13
WSHR1216	1/2"x16
WSHR1219	1/2"x19
WSHR3416	3/4"x16
WSHR3419	3/4"x19
WSHR3427	3/4"x27
WSHR1019	1"x19
WSHR1027	1"x27
WSHR1033	1"x33

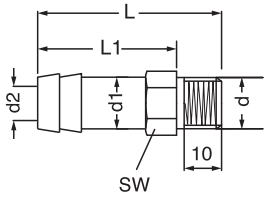


Ters Lüle

Sipariş Kodu	Ölçü Dişi	Ölçü Erkek
WTL 1418	G 1/4"	G 1/8"
WTL 3818	G 3/8"	G 1/8"
WTL 1218	G 1/2"	G 1/8"
WTL 3814	G 3/8"	G 1/4"
WTL 1214	G 1/2"	G 1/4"
WTL 1238	G 1/2"	G 3/8"
WTL 3412	G 3/4"	G 1/2"
WTL 1012	G 1/"	G 1/2"
WTL 1034	G 1/"	G 3/4"

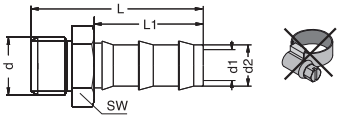
5100 SERİSİ STANDART





Hortum Girişli Kalıp Rakoru (Standart Genel Kullanım)

Sipariş Kodu	d	d1	d2	L	L1	sw
M5100 / M8	**M8** x1.25	12	7	36	28	13
M5100 / M10	**M10** x1.50			36		13
M5100 / M12	**M12** x1.75			40		13
M5100 / M14	**M14** x2.0			40		14
M5100 / M16	**M16** x2.0			40		16
M5100 / 1/8"	**G 1/8"**	12	7	36	28	13
M5100 / 1/4"	**G 1/4"**			40		14
M5100 / 3/8"	**G 3/8"**			40		17



Hortum Girişli Kalıp Rakoru (Kelepçesiz)

Sipariş Kodu	d	d1	d2	L	L1	sw
WHRK / 10	G 1/4"	5.5	9.5	43	28	17
WHRK / 20	G 1/4"	8	12.5	43	28	17
WHRK / 30	G 3/8"	5.5	9.5	46	33	19
WHRK / 40	G 3/8"	8	12.5	46	33	19
WHRK / 50	G 1/2"	8	12.5	46	33	23





Sanayi Hortumu Kelepçesiz

Sipariş Kodu	İç Çap	Dış Çap	Çalışma Basıncı	Patlama Basıncı	Uzunluk	Renk
WFX 10B	9.5	15.4	28 Bar	60 Bar	20 Metre	Mavi
WFX 10R	9.5	15.4				Kırmızı
WFX 13B	12.5	18.5				Mavi
WFX 13R	12.5	18.5				Kırmızı

Sıcak ve soğuk su kullanımı için polyesterle güçlendirilmiş hortumlardır. Esnek ve güçlü yapısı sayesinde bükülme ve kırılmaya karşı dayanıklıdır. Kelepçeli ve kelepçesiz kullanıma uygundur.



Hortumu istenilen boyda düz olucak şekilde kesiniz.

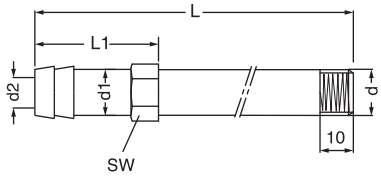


Hortumu rakorun içine yerleştirin.



Hortumu iterek sarı yuvaya tam yerleştirin.

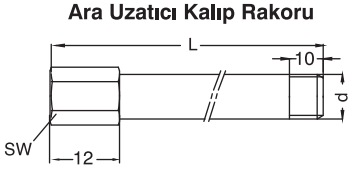




Hortum Girişli Kalıp Rakoru Uzun Tip (Standart Genel Kullanım)

Sipariş Kodu	d	d1	d2	L	L1	sw
M5100 / 8x60	**M8** x1.25	12	7	60	28	13
M5100 / 8x80				80		
M5100 / 8x100				100		
M5100 / 8x120				120		
M5100 / 8x150				150		
M5100 / 10x60	**M10** x1.5	12	7	60	28	13
M5100 / 10x80				80		
M5100 / 10x100				100		
M5100 / 10x120				120		
M5100 / 10x150				150		
M5100 / 10x200				200		
M5100 / 10x250				250		
M5100 / 12x60	**M12** x1.75	12	7	60	28	13
M5100 / 12x80				80		
M5100 / 12x100				100		
M5100 / 12x120				120		
M5100 / 12x150				150		
M5100 / 12x200				200		
M5100 / 12x250				250		
M5100 / 18x60	**G 1/8"**	12	7	60	28	13
M5100 / 18x80				80		
M5100 / 18x100				100		
M5100 / 18x120				120		
M5100 / 18x150				150		
M5100 / 14x60	**G 1/4"**	12	7	60	28	14
M5100 / 14x80				80		
M5100 / 14x100				100		
M5100 / 14x120				120		
M5100 / 14x150				150		
M5100 / 14x200				200		
M5100 / 14x250				250		

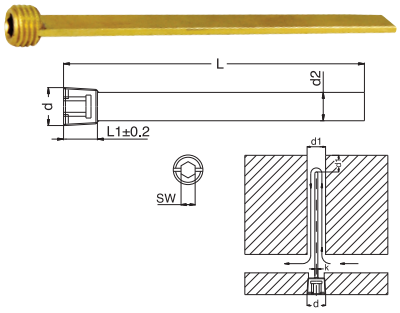
Ara Uzatıcı Kalıp Rakoru



Sipariş Kodu	d	l	sw
W590ARU14.60	G 1/4"	60	14
W590ARU14.80		80	
W590ARU14.100		100	
W590ARU14.150		150	

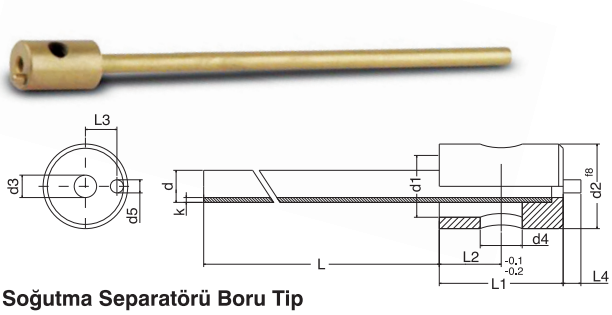
Sipariş Kodu	d	l	sw
W590ARU18.60	G 1/8"	60	16
W590ARU18.80		80	
W590ARU18.100		100	
W590ARU18.150		150	

WS SERİSİ SEPERATÖRLER



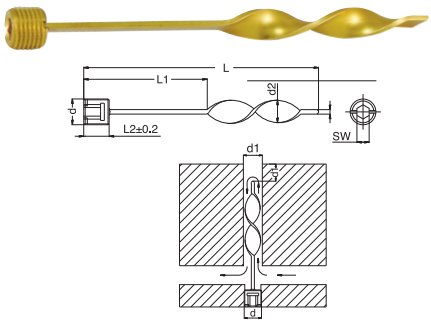
Soğutma Separatörü Lama Tipi

Sipariş Kodu	sw	d	d1	d2	L	L1	k
WSEM08100	4	**M8** x0.75	6	5.8	100	8	1.6
WSEM08200					120		
WSEM10100	4	**M10** x1.0	6	7.8	100	8	1.6
WSEM10125		**M10** x1.5			125		
WSEM10200		**M10** x1.0			200		
WSEM10300		**M10** x1.0			300		
WSEM12125	6	**M12** x1.5	10	9.8	125	8	2.0
WSEM12250					250		
WSEM16150	8	**M16** x1.5	14	13.8	125	8	2.0
WSEM16300					250		
WSEM20150	10	**M20** x1.5	18	17.8	150	10	2.4
WSEM20200					200		
WSEM20300					300		
WSEM20400					400		
WSEM24150	10	**M24** x1.5	20	19.8	150	12	2.4
WSEM25300					300		



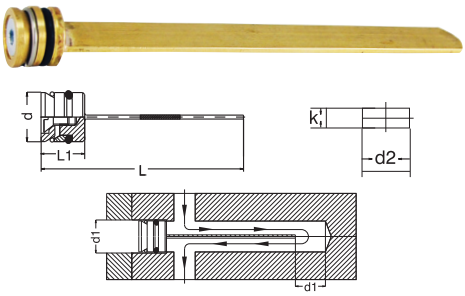
Soğutma Separatörü Boru Tip

Sipariş Kodu	d	d1	d2	d3	d4	d5	L	L1	L2	L3	L4	k
WSEM08100	**10**	4	**2.6**	2	4	2	**100**	16	9	3.5	4	0.3
WSEM08200							**200**					
WSEM10100	**10**	5	**3**	2.4	4	2	**100**	16	9	3.5	4	0.3
WSEM10125							**200**					
WSEM10200	**10**	6	**4**	3	4	2	**100**	16	9	3.5	4	0.5
WSEM10300							**200**					
WSEM12125	**12**	8	**5**	4	6	2	**160**	18	9	4	6	0.5
WSEM12250							**315**			4.5		
WSEM08100	**16**	12	**6**	5	6	2	**160**	18	9	6	6	0.5
WSEM08200							**315**					
WSEM10100	**18**	14	**8**	6	6	2	**160**	18	9	7	6	1
WSEM10125							**315**					
WSEM10200	**20**	16	**10**	8	8	2	**160**	20	10	8	8	1
WSEM10300							**315**					
WSEM12125	**25**	20	**12**	10	10	2	**160**	25	13	9,5	10	1
WSEM12250							**315**					



Soğutma Separatörü Spiral Tip

Sipariş Kodu	sw	d	d1	d2	L	L1	L2	k
WSEP10100	5	1/8”	8.5	8.2	100	8	51	1.6
WSEP10120					120		102	
WSEP10150					150			
WSEP10200					200			
WSEP13100	7	1/4”	11.5	11.2	100	10	51	2.4
WSEP13120					120		102	
WSEP13150					150			
WSEP13200					200			
WSEP13250					250			
WSEP17150	10	3/8”	15	14.7	150	10	51	2.4
WSEP17175					175		102	
WSEP17200					200			
WSEP17250					250			
WSEP17300					300			
WSEP21200	12	1/2”	18.5	18.2	200	12	76	2.4
WSEP21400					400		127	
WSEP26500	12	3/4”	23.5	23.3	500	12	153	3.2



Soğutma Separatörü Oring Bağlantılı Tip

Sipariş Kodu	d	d1	d2	L	L1	k
WOSEP08100	7.9	8	6	100	10	1.6
WOSEP08150	7.9	8	6	150	10	1.6
WOSEP08200	7.9	8	6	200	10	1.6
WOSEP10100	9.9	10	8	100	10	1.6
WOSEP10150	9.9	10	8	150	10	1.6
WOSEP10200	9.9	10	8	200	10	1.6
WOSEP12100	11.9	12	10	100	10	2.4
WOSEP12150	11.9	12	10	150	10	2.4
WOSEP12200	11.9	12	10	200	10	2.4
WOSEP14100	13.9	14	12	100	12	2.4
WOSEP14150	13.9	14	12	150	12	2.4
WOSEP14200	13.9	14	12	200	12	2.4
WOSEP16150	15.9	1	14	150	12	2.4
WOSEP16250	15.9	16	14	250	12	2.4
WOSEP20150	19.9	20	18	150	12	2.4
WOSEP20250	19.9	20	18	250	12	2.4

OTOMATİK BAĞLANTI RAKORLARI / PLASTİK MODELLER

Plastik yapılı ve otomatik girdili dağıtım rakorları pnömatik dağıtım sistemleri içindir. Maksimum sıcaklık 40°. Enjeksiyon kalıplarının su soğutma sistemleri için de kullanılabilen yapıdadır. Ortam ve dolaşımdaki su sıcaklığının max. 40 °C 'yi geçmemesi önerilir. Isı değerlerinin ölçümü için Termometre modellerimizi tercih edebilirsiniz.

İçten Dişli Bağlantı Rakoru



Sipariş Kodu	d	d1
M5602-04	1/8″	4 mm
M5602-06	1/8″	6 mm
M5602-08	1/8″	8 mm
M5602-10	1/4″	4 mm
M5602-12	1/4″	6 mm
M5602-14	1/4″	8 mm
M5602-16	1/4″	10 mm

Dıştan Dişli Rakor



Sipariş Kodu	d x d1
M5601-04	1/8″x4
M5601-06	1/8″x6
M5601-08	1/8″x8
M5601-10	1/8″x10
M5601-12	1/4″x6
M5601-14	1/4″x8
M5601-16	1/4″x10
M5601-18	3/8″x8
M5601-20	3/8″x10
M5601-22	3/8″x12

Valfli Dişli Rakor



Sipariş Kodu	d	d1
M5636-04	1/8″	4 mm
M5636-06	1/8″	6 mm
M5636-08	1/8″	8 mm
M5636-10	1/4″	4 mm
M5636-12	1/4″	6 mm
M5636-14	1/4″	8 mm
M5636-16	1/4″	10 mm
M5636-18	3/8″	10 mm
M5636-20	3/8″	12 mm

Hortum, Çekli Hız Ayar Valfi



Sipariş Kodu	d1
M5637-04	4 mm
M5637-06	6 mm
M5637-08	8 mm
M5637-10	10 mm
M5637-12	12 mm

Dişli 90° Döner Dirsek



Sipariş Kodu	d	d1
M5604-04	1/8″	4 mm
M5604-06	1/8″	6 mm
M5604-08	1/8″	8 mm
M5604-10	1/4″	4 mm
M5604-12	1/4″	6 mm
M5604-14	1/4″	8 mm
M5604-16	1/4″	10 mm
M5604-18	3/8″	10 mm
M5604-20	3/8″	12 mm

Dişli, Manifold Dağıtıcı



Sipariş Kodu	d	d1
M5639-04	1/8″	4 mm
M5639-06	1/8″	6 mm
M5639-08	1/8″	8 mm
M5639-10	1/4″	4 mm
M5639-12	1/4″	6 mm
M5639-14	1/4″	8 mm
M5639-16	1/4″	10 mm
M5639-18	3/8″	10 mm
M5639-20	3/8″	12 mm

Dişli - Orta Bacak " TE "



Sipariş Kodu	d	d1
M5628-04	1/8″	4 mm
M5628-06	1/8″	6 mm
M5628-08	1/8″	8 mm
M5628-10	1/4″	4 mm
M5628-12	1/4″	6 mm
M5628-14	1/4″	8 mm
M5628-16	1/4″	10 mm
M5628-18	3/8″	10 mm
M5628-20	3/8″	12 mm

Dişli - Dağıtıcı " YE "



Sipariş Kodu	d	d1
M5624-06	1/8″	6 mm
M5624-08	1/8″	8 mm
M5624-10	1/4″	6 mm
M5624-12	1/4″	8 mm
M5624-14	1/4″	10 mm

Hortum Eki Düz Nipel



Sipariş Kodu	d1
M5610-04	4 mm
M5610-06	6 mm
M5610-08	8 mm
M5610-10	10 mm
M5610-12	12 mm
M5610-14	14 mm
M5610-16	16 mm

Hortum Düşürücü Düz Nipel



Sipariş Kodu	d1 - d2
M5622-04	6 - 4 mm
M5622-06	8 - 4 mm
M5622-08	8 - 6 mm
M5622-10	10 - 6 mm
M5628-12	10 - 8 mm
M5622-14	12 - 8 mm
M5622-16	12-10 mm

Dişli Vana Hat Tipi Küresel



Sipariş Kodu	d	d1
M5642-06	1/8″	6 mm
M5642-08	1/8″	8 mm
M5642-10	1/4″	6 mm
M5642-12	1/4″	8 mm
M5642-14	3/8″	8 mm

Hortum Girdi "TE" Rakor



Sipariş Kodu	d1
M5618-04	4 mm
M5618-06	6 mm
M5618-08	8 mm
M5618-10	10 mm
M5618-12	12 mm
M5618-14	14 mm
M5618-16	16 mm

Hortum Girdi "YE" Rakor



Sipariş Kodu	d1
M5624-04	4 mm
M5624-06	6 mm
M5624-08	8 mm
M5624-10	10 mm
M5624-12	12 mm

Hortum Girdi Düşürücü "YE"



Sipariş Kodu	d1 - d2
M5616-04	6 - 4 mm
M5616-06	8 - 6 mm
M5616-08	10 - 8 mm
M5616-10	12-10 mm

Hortum Girdi Dağıtıcı Kruva



Sipariş Kodu	d1
M5620-04	4 mm
M5620-06	6 mm
M5620-08	8 mm
M5620-10	10 mm
M5620-12	12 mm

Hortum - Vana, Hat Tipi Küresel



Sipariş Kodu	d1
M5643-04	4 mm
M5643-06	6 mm
M5643-08	8 mm
M5643-10	10 mm
M5643-12	12 mm

Hortum Girdi Dirsek Rakor



Sipariş Kodu	d1
M5608-04	4 mm
M5608-06	6 mm
M5608-08	8 mm
M5608-10	10 mm
M5608-12	12 mm
M5608-14	14 mm
M5608-16	16 mm

Dişi Döner Dirsek



Sipariş Kodu	d	d1
M5606-06	1/8"	6 mm
M5606-08	1/8"	8 mm
M5606-10	1/8"	10 mm
M5606-12	1/4"	6 mm
M5606-14	1/4"	8 mm
M5606-16	1/4"	10 mm
M5606-18	3/8"	6 mm
M5606-20	3/8"	8 mm
M5606-20	3/8"	10 mm

SUSTURUCULAR - HORTUM ve TABANCALAR

Plastik Susturucular



Sipariş Kodu	d1
M5649-04	1/8"
M5649-06	1/4"
M5649-08	3/8"
M5649-10	1/2"

Bronz Sister Susturucu Uzun Tip



Sipariş Kodu	d1
M5650-04	1/8"
M5650-06	1/4"
M5650-08	3/8"
M5650-10	1/2"

Bronz Sister Susturucu Kısa Tip



Sipariş Kodu	d1
M5651-04	1/8"
M5651-06	1/4"
M5651-08	3/8"
M5651-10	1/2"

Bronz Sister Susturucu Yaylı Tip



Sipariş Kodu	d1
M5652-04	1/8"
M5652-06	1/4"
M5652-08	3/8"
M5652-10	1/2"

Poliüretan Hava Hortumları



Müşteri talebine göre istenilen boylarda kesim yapılır.

Sipariş Kodu	Renk Seçimi	Ölçü	Uzunluk
M5655-01-**Renk**	● ○ ● ○	1.5x3 mm	200 m
M5655-02-**Renk**	● ○ ● ○	2x4 mm	200 m
M5655-03-**Renk**	● ○ ● ○	2.5x4 mm	200 m
M5655-04-**Renk**	● ○ ● ○	3x5 mm	200 m
M5655-05-**Renk**	● ○ ● ○	4x6 mm	200 m
M5655-06-**Renk**	● ○ ● ○	5x8 mm	100 m
M5655-07-**Renk**	● ○ ● ○	5.5x8 mm	100 m
M5655-08-**Renk**	● ○ ● ○	6x8 mm	100 m
M5655-09-**Renk**	● ○ ● ○	6.5x10 mm	100 m
M5655-10-**Renk**	● ○ ● ○	7x10 mm	100 m
M5655-11-**Renk**	● ○ ● ○	8x12 mm	100 m
M5655-12-**Renk**	● ○ ● ○	9x12 mm	100 m
M5655-13-**Renk**	● ○ ● ○	9.5x14 mm	50 m
M5655-14-**Renk**	● ○ ● ○	11x16 mm	50 m
M5655-15-**Renk**	● ○ ● ○	12x16 mm	50 m



Spiral Poliüretan Hava Hortumları

Sipariş Kodu	Renk Seçimi	Ölçü	Uzunluk
M5659-01-**Renk**	● ●	5x8 mm	5 m
M5659-02-**Renk**	● ●	5x8 mm	7.5 m
M5659-03-**Renk**	● ●	5x8 mm	10 m
M5659-04-**Renk**	● ●	5x8 mm	15 m
M5659-05-**Renk**	● ●	8x12 mm	10 m



Uzun Tip | Flex Tip | Kısa Tip

Hava Tabancası

Sipariş Kodu	Ürün
M5660-01	ANI Italy Kısa Tip
M5660-02	ANI Italy Uzun Tip
M5660-03	ANI Italy Flex Tip
M5660-04	Yerli Kısa Tip (PVC)
M5660-05	Yerli Uzun Tip (PVC)

METAL FITTINGS PNÖMATİK RAKORLAR

Metal yapılı ve otomatik girdili dağıtım rakorları pnömatik dağıtım sistemleri içindir. Maksimum sıcaklık 60°. Enjeksiyon kalıplarının su soğutma sistemleri için de kullanılabilen yapıdadır. Ortam ve dolaşımdaki su sıcaklığının max. 60 °C 'yi geçmemesi önerilir. Isı değerlerinin ölçümü için Termometre modellerimizi tercih edebilirsiniz.

Dişli Rakor



Sipariş Kodu	d	d1
WPCT/10	1/8″	4 mm
WPCT/20	1/8″	6 mm
WPCT/30	1/8″	8 mm
WPCT/40	1/4″	4 mm
WPCT/50	1/4″	6 mm
WPCT/60	1/4″	8 mm
WPCT/70	1/4″	10 mm
WPCT/80	3/8″	10 mm
WPCT/90	3/8″	12 mm

Dişli Dirsek



Sipariş Kodu	d	d1
WPCT/10	1/8″	4 mm
WPCT/20	1/8″	6 mm
WPCT/30	1/8″	8 mm
WPCT/40	1/4″	4 mm
WPCT/50	1/4″	6 mm
WPCT/60	1/4″	8 mm
WPCT/70	1/4″	10 mm
WPCT/80	3/8″	10 mm
WPCT/90	3/8″	12 mm

Dişli Orta Bacak



Sipariş Kodu	d	d1
WPBT/10	1/8″	4 mm
WPBT/20	1/8″	6 mm
WPBT/30	1/8″	8 mm
WPBT/40	1/4″	4 mm
WPBT/50	1/4″	6 mm
WPBT/60	1/4″	8 mm
WPBT/70	1/4″	10 mm
WPBT/80	3/8″	10 mm
WPBT/90	3/8″	12 mm

Hortum Nipel



Sipariş Kodu	d1
WPUT/10	4 mm
WPUT/20	6 mm
WPUT/30	8 mm
WPUT/40	10 mm
WPUT/50	12 mm
WPUT/60	14 mm
WPUT/70	16 mm

Hortum "TE"



Sipariş Kodu	d1
WPET/10	4 mm
WPET/20	6 mm
WPET/30	8 mm
WPET/40	10 mm
WPET/50	12 mm
WPET/60	14 mm
WPET/70	16 mm

Hortum Düşürücü Rakor



Sipariş Kodu	d1	d2
WPOT/10	8	6 mm
WPOT/20	10	8 mm

Hortum Dirsek



Sipariş Kodu	d1
WPVT/10	4 mm
WPVT/20	6 mm
WPVT/30	8 mm
WPVT/40	10 mm
WPVT/50	12 mm
WPVT/60	14 mm
WPVT/70	16 mm

Yan Bacak TE



Sipariş Kodu	d	d1
WPCT/10	1/8″	4 mm
WPCT/20	1/8″	6 mm
WPCT/30	1/8″	8 mm
WPCT/40	1/4″	4 mm
WPCT/50	1/4″	6 mm
WPCT/60	1/4″	8 mm
WPCT/70	1/4″	10 mm
WPCT/80	3/8″	10 mm
WPCT/90	3/8″	12 mm

Dişli Rakor



Sipariş Kodu	d	d1
WPCT/10	1/8″	4 mm
WPCT/20	1/8″	6 mm
WPCT/30	1/8″	8 mm
WPCT/40	1/4″	4 mm
WPCT/50	1/4″	6 mm
WPCT/60	1/4″	8 mm
WPCT/70	1/4″	10 mm
WPCT/80	3/8″	10 mm
WPCT/90	3/8″	12 mm

Hortum Borulu



Sipariş Kodu	d1
MPY/10	4 mm
MPY/20	6 mm
MPY/30	8 mm
MPY/40	10 mm
MPY/50	12 mm
MPY/60	14 mm
MPY/70	16 mm

Perde Geçiş Rakor



Sipariş Kodu	d	d3
WBDG/10	1/8″	1/4″
WBDG/20	1/8″	3/8″
WBDG/30	1/8″	1/2″
WBDG/40	1/4″	3/8″
WBDG/50	1/4″	1/2″
WBDG/60	3/8″	1/2″

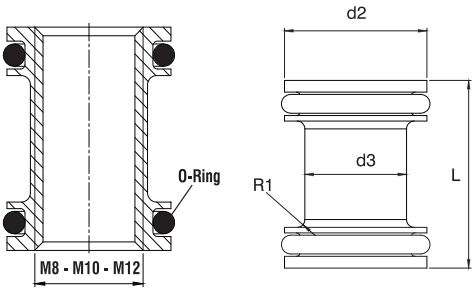
Hortum YE



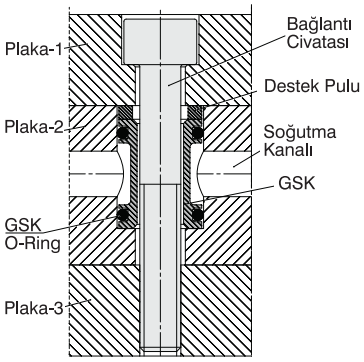
Sipariş Kodu	d	d3
WBBG/10	1/8″	1/4″
WBBG/20	1/8″	3/8″
WBBG/30	1/4″	3/8″
WBBG/40	1/4″	1/2″
WBBG/50	3/8″	1/2″

MESR Soğutma Kavşağı

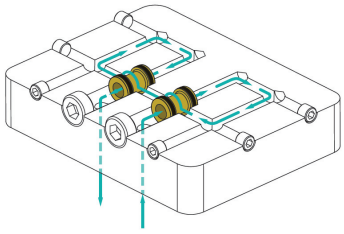


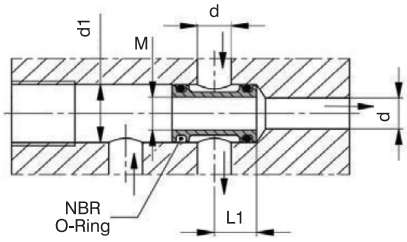


Montaj Örneği



Sipariş Kodu	d	d1	d2	d3	L1	L2	M	O-Ring
MESR/06	06	11.5	11.1	9	10	20	M8	Ø8x1.5
MESR/08	08	15	14.6	11			M10	Ø10x2
MESR/10	10	18.5	18.2	13	12	24	M12	Ø13.9x2.4





VIR95 Dijital Lazer Termometre



Teknik Özellikleri ;

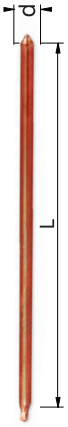
Ölçüm Aralığı : -50 °C~ 550°C / -58°F~1022 °F
Doğruluk Sapma: ±1.5°C ya da ±1.5%
Ölçü Birimi Seçimi : °C / °F
Uzaklık / Hedef Oranı : D:S =12:1
Otomatik Kapanma : 6 saniye
Ölçüm Hızı :≤0.5 saniye
Ayarlanabilir Ateşleme Oranı : 0.1~1
LCD Ekran Görüntüleme : 3 haneli
Güç Tüketimi :≤50mW
Pil : 9V

Dahili lazer görüş
Aydınlatmalı LCD ekran
Veri tutma/saklama
Max/min/ortalama/ DIF verileri saklama
Yüksek/düşük ısı alarm fonksiyonu
Ayarlanan sıcaklık değerinde sesli uyarı fonksiyonu
Sıfırlama ayarı
Birim sembolü görüntüleme
Düşük pil uyarısı
Otomatik kapatma (pil tüketiminden tasarruf için)
Kompakt, sağlam ve kullanımı kolay

Isı Transfer Borusu







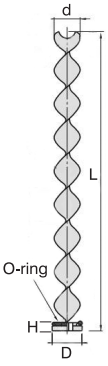
Sipariş Kodu	d	L
WBB03040	Ø3	40
WBB03060		60
WBB03080		80
WBB03100		100
WBB03120		120
WBB03150		150
WBB04040	Ø4	40
WBB04060		60
WBB04080		80
WBB04100		100
WBB04120		120
WBB04150		150
WBB04185		185
WBB04200		200
WBB05060	Ø5	60
WBB05080		80
WBB05100		100
WBB05120		120
WBB05150		150
WBB05200		200

Sipariş Kodu	d	L
WBB06060	Ø6	60
WBB06080		80
WBB06100		100
WBB06120		120
WBB06150		150
WBB06185		185
WBB06200		200
WBB06250		250
WBB08080	Ø8	80
WBB08100		100
WBB08120		120
WBB08150		150
WBB08185		185
WBB08200		200
WBB08250		250
WBB10100	Ø10	100
WBB10120		120
WBB10150		150
WBB10185		185
WBB10200		200
WBB10250		250
WBB10300		300

Kapalı devre (Sıkıştırılmış sıvı gazlı yapıda)
Bakır Borular ;
Soğutma sistemi, boru içerisindeki sıkışık gazın ısıyı hızlı bir şekilde üst noktalara yükseltmesiyle oluşur.
Montajda ; İletken Isı Transfer Borusunun en az %70'i maçaların içerisinde kalır ve %30'u kalıbın su yolluk kanallarında kalmalıdır.
Sistemin Kullanım Avantajları ;
Soğuk deformasyondan ve büzüşmeden kaynaklanan hatalı ürünlerin sayısınıbaskıda en az indirir. Sıcaklığın kontrolünü hızlı bir şekilde sağladığından yüksekürün hassasiyeti elde edilir. Ürün içerisinde gözenek oluşumunu engellemiş olur. Enjeksiyon esnasında doğru renkde ürünlerin elde edilmesinde kesinlik sağlamış olur,kalıp ömrünü uzatır, montajı kolaydır.

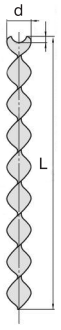
Plastik Soğutma Spiralleri





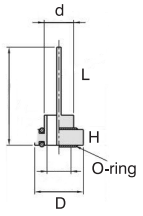
WTA





WTB





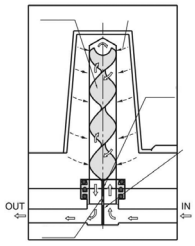
WST

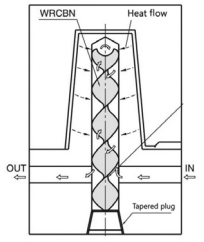
Sipariş Kodu	d	L	D	H
WTA08100	8	100	15	4
WTA08200		200		
WTA08300		300		
WTA10100	10	100	18	4
WTA10200		200		
WTA10300		300		
WTA12100	12	100	22	4
WTA12200		200		
WTA12300		300		
WTA16100	16	100	22	4
WTA16200		200		
WTA16300		300		
WTA20100	20	100	30	4
WTA20200		200		
WTA20300		300		
WTA20400		400		
WTA25100	25	100	35	4
WTA25200		200		
WTA25300		300		
WTA25400		400		

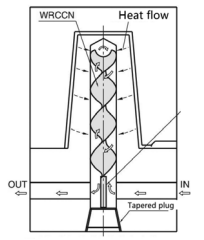
Sipariş Kodu	d	L	D	H
WTB08096	8	96	20	8
WTB08196		196		
WTB08296		296		
WTB10096	10	96	20	10
WTB10196		196		
WTB10296		296		
WTB12096	12	96	25	12
WTB12196		196		
WTB12296		296		
WTB16096	16	96	25	16
WTB16196		196		
WTB16296		296		
WTB20096	20	96	25	20
WTB20196		196		
WTB20296		296		
WTB20396		396		
WTB25096	25	96	25	25
WTB25196		196		
WTB25296		296		
WTB25396		396		

Sipariş Kodu	d	L	H	T
WST0825	8	25	2	1.5
WST0830		30		
WST0835		35		
WST0840		40		
WST1025	10	25	2.5	1.8
WST1030		30		
WST1035		35		
WST1040		40		
WST1025	12	25	3	2.0
WST1030		30		
WST1035		35		
WST1040		40		
WST1625	16	25	4	3.0
WST1630		30		
WST1635		35		
WST1640		40		
WST2025	20	25	5	3.0
WST2030		30		
WST2035		35		
WST2040		40		
WST2530	25	30	6	4.0
WST2535		35		
WST2540		40		

Su akış kanalında dengeli türbülans oluşturarak etkili bir akış sağlar. Soğutma suyu, spirallerin helislerini takip ederek akar.
Ürünlerimizin malzemesi cam elyaf katkılı olduğundan daima soğuk kalırlar.
Soğutma Kanallarında asla tıkanmaya yol açmaz ve paslanma problemi oluşturmazlar.







ESR Su Sirkülasyon Regülatörü

Akış Hızı : 0-18 lpm Giriş - Çıkış : R 3/8 Max Isı : 95°C

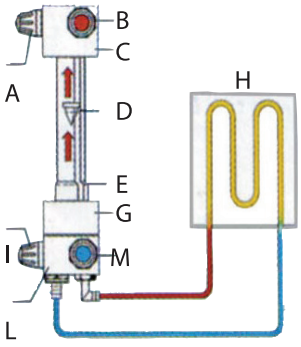


Plastik Gövde



Metal Gövde

A : Kontrol vanası
B : Su çıkışı
C : Akış manifoldu
D : Şamandıra
E : Kalibrasyonlu şeffaf tip
G : Alıcı bölüm
H : Kalıp dağıtım
I : Kapatma vanası
L : Besleme manifoldu
M : Su girişi



Plastik Gövde

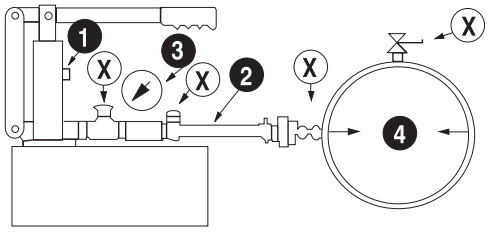
Sipariş Kodu	Tüp Sayısı	Çıkış Devre	En x Boy
ESR 04	4'lü	Rakor / Uç R:1/4"	280x280
ESR 05	5'li		340x280
ESR 06	6'lı		400x280
ESR 08	8'li	10 mm Hortum	520x280
ESR 10	10'lu		640x280
ESR 12	12'li		760x280

Metal Gövde

Sipariş Kodu	Tüp Sayısı	Çıkış Devre	En x Boy
ESR 04	4'lü	Rakor / Uç R:1/4"	280x280
ESR 05	5'li		340x280
ESR 06	6'lı		400x280
ESR 08	8'li	10 mm Hortum	520x280
ESR 10	10'lu		640x280
ESR 12	12'li		760x280

SYS Manuel Basınç Test Pompası





Sipariş Kodu	Çalışma Basıncı	Akış Debisi
SYS 6	6.3 Mpa	25 ml / s.

1 - Sistemi açma kapama vana / düğmesi
2 - Basınca dayanıklı test hortumu
3 - Manometre / Basınç gösterge saati
4 - Kalıp su yolluk devresi
X - İsteğe göre mini küresel vana ilave edilebilir.

Spiral Yağ Hortumu



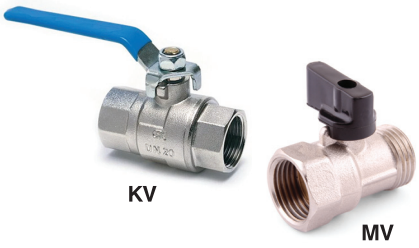
Sipariş Kodu	Ürün	Ağız	Uzunluk	Bağlantı
ESK	Spiral Yağ Hortumu	Yuvarlak	300	1/4”
ESB	Spiral Yağ Hortumu	Yuvarlak	400	3/8”
ESK G	Spiral Yağ Hortumu	Geniş	300	1/4”
ESB G	Spiral Yağ Hortumu	Geniş	400	3/8”

Teflon Bantlar



Sipariş Kodu	Ürün	Ambalaj
TF-01KN	KNC Teflon Bant	10
TF-02KN	KNC Gaz Teflon Bant	10
TF-01RS	Resiflon Teflon Bant	10
TF-02RS	Resiflon Gaz Teflon Bant	10

Mini Vana - Küresel Vana



Sipariş Kodu	Ürün
MV1/8E	1/8 Erkek
MV1/4E	1/4 Erkek
MV3/8E	3/8 Erkek
MV1/2E	1/2 Erkek
MV3/4E	3/4 Erkek

Sipariş Kodu	Ürün
MV1/8D	1/8 Dişi
MV1/4D	1/4 Dişi
MV3/8D	3/8 Dişi
MV1/2D	1/2 Dişi
MV3/4D	3/4 Dişi

Sipariş Kodu	Ürün
KV1/2	1/2 K.Vana
KV3/4	3/4 K.Vana
KV1”	1” K.Vana
KV1-1/4	1-1/4 K.Vana
KV1-1/2	1-1/2 K.Vana

Hortum Kelepçeleri



Standart Kelepçe HK

Inox Kelepçe XHK

Sipariş Kodu	Ürün
HK0812	8-12
HK1016	10-16
HK1220	12-20
HK1319	13-19
HK1625	16-25

Sipariş Kodu	Ürün
XHK0812	8-12
XHK1016	19-26
HK1220	25-40
HK1319	30-45
HK1625	40-60

Sipariş Kodu	Ürün
HK0812	50-70
HK1016	70-90
HK1220	80-100
HK1319	110-130
HK1625	130-150

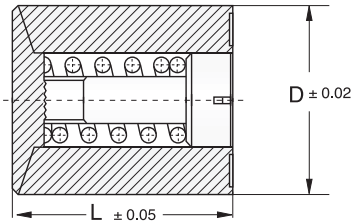
Kalıp Takvimleri



Standart Kalıp Takvim ve Kaşeleri

Mat.: 1.4034 (Inox) ≈ 48±2 HRC / 150°C





D(mm)	L
Ø 4	6
Ø 5	6
Ø 6	8
Ø 8	10
Ø 10	10
Ø 12	12
Ø 16	14
Ø 20	14

(Ay-Yıl - Ok)



M4000/D x L

(Yıl - Ok)



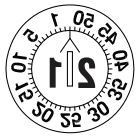
M4002/D x L

(Ay - Ok)



M4004/D x L

(Hafta - Ok)



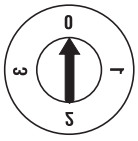
M4006/D x L

(Gün - Ok)



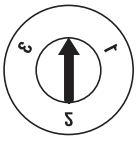
M4008/D x L

(Vardiya)



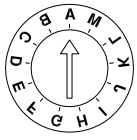
M4010/D x L

(Vardiya)



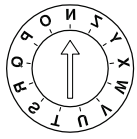
M4012/D x L

(Harf A-M Arası)



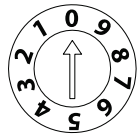
M4014/D x L

(Harf N-Z Arası)



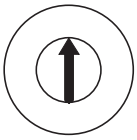
M4016/D x L

(Rakam 0-9)



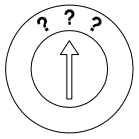
M4018/D x L

(Yazısız)



M4020/D x L

(Özel Üretim)

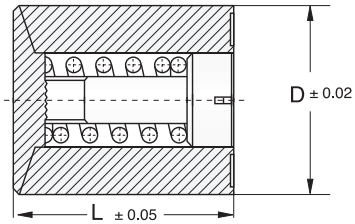


M4000Z/DxL

Geri Dönüşüm Kaşeleri

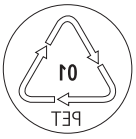
Mat.: 1.4034 (Inox) ≃ 48±2 HRC / 150°C





D(mm)	L
Ø 4	6/8
Ø 5	6/8
Ø 6	8/10
Ø 8	8/10
Ø 10	10/12
Ø 12	10/12
Ø 16	12/14
Ø 20	14/16

PET



M4030/D x L

PE-HD



M4032/D x L

HDPE



M4034/D x L

PVC



M4036/D x L

PE-LD



M4038/D x L

LDPE



M4040/D x L

PE-BD



M4042/D x L

PP



M4044/D x L

PS



M4046/D x L

OTHER



M4048/D x L

POM



M4050/D x L

PA



M4052/D x L

GIDA



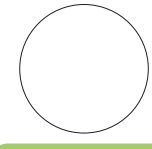
M4054/D x L

LOGO



M4056/D x L

BOŞ

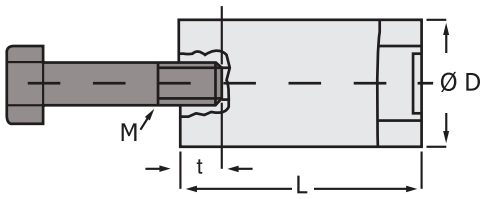


M4058/D x L

Vidalı Kalıp Takvimi

Mat.: 1.2083 ≃ 48±2 HRC / 150°C





D	L	t	M
Ø 4	12.5	2.5	M2x20
Ø 5	14	3	M2.5x20
Ø 6	16	3	M3x20
Ø 8	18	3	M3x20
Ø 10	22	5.5	M3x20
Ø 12	25	5.5	M4x20

(Ay-Yıl - Ok)



M4100/D x L

(Yıl - Ok)



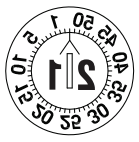
M4102/D x L

(Ay - Ok)



M4104/D x L

(Hafta - Ok)



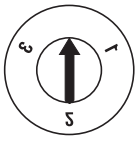
M4106/D x L

(Gün - Ok)



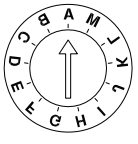
M4108/D x L

(Vardiya)



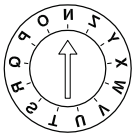
M4112/D x L

(Harf A-M Arası)



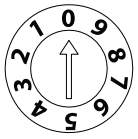
M4114/D x L

(Harf N-Z Arası)



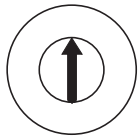
M4116/D x L

(Rakam 0-9)



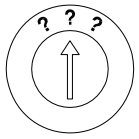
M4118/D x L

(Yazısız)



M4120/D x L

(Özel Üretim)

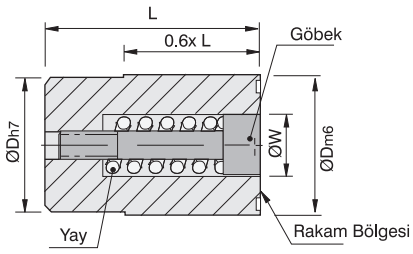


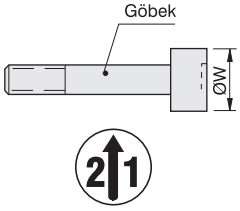
M4122/D x L

Kalıp Takvimi Değiştirilebilir İç Göbek

Mat.: 1.2083 ≃ 48±2 HRC / 150°C









ØD(mm)	L	ØW
Ø 6	8	3.1
Ø 8	10	4.4
Ø 10	12	5.2
Ø 12	14	6.2
Ø 16	14	8.2
Ø 20	16	11

(Ay-Yıl - Ok)



M4200/D x L

(Yıl - Ok)



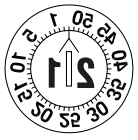
M4202/D x L

(Ay - Ok)



M4204/D x L

(Hafta - Ok)



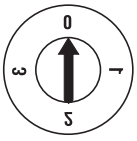
M4206/D x L

(Gün - Ok)



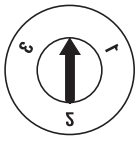
M4208/D x L

(Vardiya)



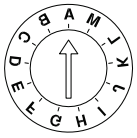
M4210/D x L

(Vardiya)



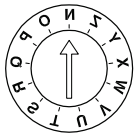
M4212/D x L

(Harf A-M Arası)



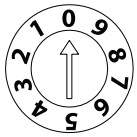
M4214/D x L

(Harf N-Z Arası)



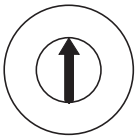
M4216/D x L

(Rakam 0-9)



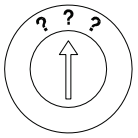
M4218/D x L

(Yazısız)



M4220/D x L

(Özel Üretim)



M4200Z/DxL

Göbek Sipariş Örneği

Göbek Yıl



M4230/DxF

Göbek Boş

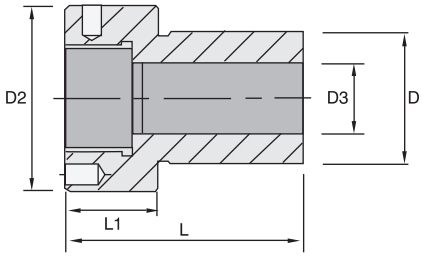


M4240/DxF

Şapkalı Kalıp Takvimi

Mat.: 1.2083 ≃ 48±2 HRC / 150°C





D	D2	D3	L	L1
Ø 6	10	3.5	14	5
Ø 8	12	4.5	17	6
Ø 12	20	6.5	22	10
Ø 16	23	9	27	11
Ø 20	28	10.5	36	14

(Ay-Yıl - Ok)



M4280/D x L

(Yıl - Ok)



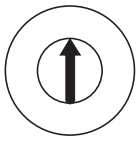
M4285/D x L

(Ay - Ok)



M4290/D x L

(Boş - Ok)



M4295/D x L

M4300 İkili Kalıp Takvimi (Komplike)

Mat.: 1.2083 ≃ 48±2 HRC / 150°C

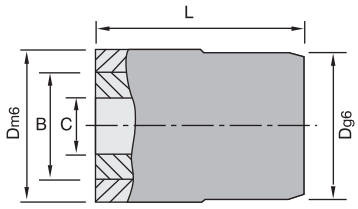


Saat yönünün tersi
(Ay)



Saat yönünde
(Yıl)





- İki ayrı tarih markası bir ünite.
- İki ayrı tarih markasına gerek yoktur. Maliyetten tasarruf sağlar.
- 12 ay + 6 yılı bir ünite üzerinde gösterir.
- 6 yıl boyunca herhangi bir değişiklik yapmanıza gerek yoktur.

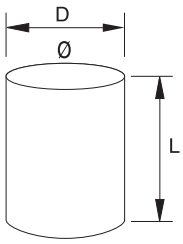
Sipariş Kodu	D	L	B	C
M4300/08	**Ø 8**	20	5.5	3
M4300/10	**Ø 10**	20	6	3
M4300/12	**Ø 12**	20	8	4
M4300/16	**Ø 16**	20	10.5	5.3

Gaz Atma Filtreleri



MGA300 Sarı Telli Gaz Atma Filtresi

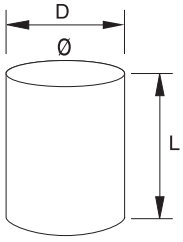




Sipariş Kodu	D mm	L mm
MGA300/02	Ø 2	5
MGA300/03	Ø 3	8
MGA300/04	Ø 4	10
MGA300/05	Ø 5	10
MGA300/06	Ø 6	10
MGA300/08	Ø 8	10
MGA300/10	Ø 10	10
MGA300/12	Ø 12	10
MGA300/16	Ø 16	10

MGA302 Sinterli Gaz Atma Filtresi

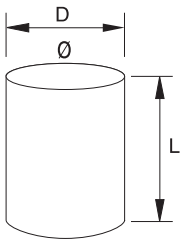




Sipariş Kodu	D mm	L mm
MGA302/03	Ø 3	10
MGA302/04	Ø 4	10
MGA302/05	Ø 5	10
MGA302/06	Ø 6	10
MGA302/08	Ø 8	10
MGA302/10	Ø 10	10
MGA302/12	Ø 12	10
MGA302/15	Ø 15	10

MGA304 Çelik Gövde Sinterli Gaz Atma Filtresi

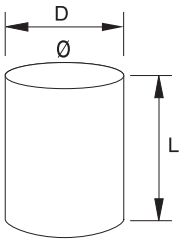




Sipariş Kodu	D mm	L mm
MGA304/04	Ø 4	10
MGA304/06	Ø 6	10
MGA304/08	Ø 8	10
MGA304/10	Ø 10	12
MGA304/12	Ø 12	12
MGA304/16	Ø 16	14
MGA304/20	Ø 20	15
MGA302/28	Ø 28	15

MGA308 Alüminyum Zamak Gaz Atma Filtresi

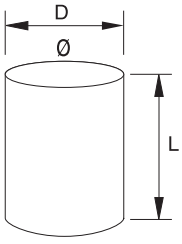




Sipariş Kodu	D mm	L mm
MGA308/03	Ø 3	10
MGA308/04	Ø 4	10
MGA308/05	Ø 5	10
MGA308/06	Ø 6	10
MGA308/08	Ø 8	10
MGA308/10	Ø 10	10
MGA308/12	Ø 12	10
MGA308/16	Ø 16	15
MGA308/20	Ø 20	15

MGA306 Kanallı Gaz Atma Filtresi





Sipariş Kodu	D mm	L mm
MGA306/04	Ø 4	10
MGA306/06	Ø 6	10
MGA306/08	Ø 8	10
MGA306/10	Ø 10	10
MGA306/12	Ø 12	10

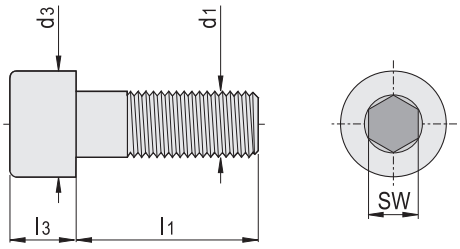
Bağlantı Elemanları



M1400 12.9 Kalite İmbus Civata DIN 912

ISO 4762





Sipariş Kodu	d1	l1	l3	d3	SW
M1400/3X6	M3	6	3	5.5	2.5
M1400/3X8		8			
M1400/3X10		10			
M1400/3X12		12			
M1400/3X16		16			
M1400/3X20		20			
M1400/3X25		25			
M1400/3X30		30			
M1400/3X40		40			
M1400/3X50		50			
M1400/3X60		60			
M1400/4X8	M4	8	4	7	3
M1400/4X10		10			
M1400/4X12		12			
M1400/4X16		16			
M1400/4X20		20			
M1400/4X25		25			
M1400/4X30		30			
M1400/4X40		40			
M1400/4X50		50			
M1400/4X60		60			
M1400/4X70		70			
M1400/4X80		80			
M1400/4X90		90			
M1400/4X100		100			
M1400/5X8	M5	8	5	8.5	4
M1400/5X10		10			
M1400/5X12		12			
M1400/5X16		16			
M1400/5X20		20			
M1400/5X25		25			
M1400/5X30		30			
M1400/5X35		35			
M1400/5X40		40			
M1400/5X45		45			
M1400/5X50		50			
M1400/5X60		60			

Sipariş Kodu	d1	l1	l3	d3	SW
M1400/5X70	M5	70	5	8.5	4
M1400/5X80		80			
M1400/5X90		90			
M1400/5X100		100			
M1400/5X110		110			
M1400/5X120		120			
M1400/5X130		130			
M1400/5X140		140			
M1400/5X150		150			
M1400/5X160		160			
M1400/5X170		170			
M1400/5X180		180			
M1400/5X190		190			
M1400/5X200		200			
M1400/6X8	M6	8	6	10	5
M1400/6X10		10			
M1400/6X12		12			
M1400/6X16		16			
M1400/6X20		20			
M1400/6X25		25			
M1400/6X30		30			
M1400/6X35		35			
M1400/6X40		40			
M1400/6X45		45			
M1400/6X50		50			
M1400/6X55		55			
M1400/6X60		60			
M1400/6X70		70			
M1400/6X80		80			
M1400/6X90		90			
M1400/6X100		100			
M1400/6X110		110			
M1400/6X120		120			
M1400/6X130		130			
M1400/6X140		140			
M1400/6X150		150			
M1400/6X160		160			

Sipariş Kodu	d1	l1	l3	d3	SW
M1400/6X170	M6	170	6	10	5
M1400/6X180		180			
M1400/6X190		190			
M1400/6X200		200			
M1400/8X10	M8	10	8	13	6
M1400/8X12		12			
M1400/8X16		16			
M1400/8X20		20			
M1400/8X25		25			
M1400/8X30		30			
M1400/8X35		35			
M1400/8X40		40			
M1400/8X45		45			
M1400/8X50		50			
M1400/8X55		55			
M1400/8X60		60			
M1400/8X65		65			
M1400/8X70		70			
M1400/8X80		80			
M1400/8X90		90			
M1400/8X100		100			
M1400/8X110		110			
M1400/8X120		120			
M1400/8X130		130			
M1400/8X140		140			
M1400/8X150		150			
M1400/8X160		160			
M1400/8X170		170			
M1400/8X180		180			
M1400/8X190		190			
M1400/8X200		200			
M1400/10X16	M10	16	10	16	8
M1400/10X20		20			
M1400/10X25		25			
M1400/10X30		30			
M1400/10X35		35			
M1400/10X40		40			

Sipariş Kodu	d1	l1	l3	d3	SW
M1400/10X45		45			
M1400/10X50		50			
M1400/10X55		55			
M1400/10X60		60			
M1400/10X65		65			
M1400/10X70		70			
M1400/10X80		80			
M1400/10X90		90			
M1400/10X100		100			
M1400/10X110	**M10**	110	10	16	8
M1400/10X120		120			
M1400/10X130		130			
M1400/10X140		140			
M1400/10X150		150			
M1400/10X160		160			
M1400/10X170		170			
M1400/10X180		180			
M1400/10X190		190			
M1400/10X200		200			
M1400/10X220		220			
M1400/10X240		240			
M1400/10X260		260			
M1400/10X280		280			
M1400/10X300		300			
M1400/12X20		20			
M1400/12X25		25			
M1400/12X30		30			
M1400/12X35		35			
M1400/12X40		40			
M1400/12X45		45			
M1400/12X50		50			
M1400/12X55		55			
M1400/12X60		60			
M1400/12X65		65			
M1400/12X70		70			
M1400/12X80		80			
M1400/12X90	**M12**	90	12	18	10
M1400/12X100		100			
M1400/12X110		110			
M1400/12X120		120			
M1400/12X130		130			
M1400/12X140		140			
M1400/12X150		150			
M1400/12X160		160			
M1400/12X170		170			
M1400/12X180		180			
M1400/12X190		190			
M1400/12X200		200			
M1400/12X220		220			
M1400/12X240		240			
M1400/12X260		260			
M1400/12X280		280			
M1400/12X300		300			

Sipariş Kodu	d1	l1	l3	d3	SW
M1400/14X25		25			
M1400/14X30		30			
M1400/14X35		35			
M1400/14X40		40			
M1400/14X45		45			
M1400/14X50		50			
M1400/14X55		55			
M1400/14X60		60			
M1400/14X65		65			
M1400/14X70		70			
M1400/14X80		80			
M1400/14X90		90			
M1400/14X100	**M14**	100	14	21	12
M1400/14X110		110			
M1400/14X120		120			
M1400/14X130		130			
M1400/14X140		140			
M1400/14X150		150			
M1400/14X160		160			
M1400/14X170		170			
M1400/14X180		180			
M1400/14X190		190			
M1400/14X200		200			
M1400/14X220		220			
M1400/14X240		240			
M1400/16X25		25			
M1400/16X30		30			
M1400/16X35		35			
M1400/16X40		40			
M1400/16X45		45			
M1400/16X50		50			
M1400/16X55		55			
M1400/16X60		60			
M1400/16X65		65			
M1400/16X70		70			
M1400/16X80		80			
M1400/16X90		90			
M1400/16X100		100			
M1400/16X110		110			
M1400/16X120	**M16**	120	16	24	14
M1400/16X130		130			
M1400/16X140		140			
M1400/16X150		150			
M1400/16X160		160			
M1400/16X170		170			
M1400/16X180		180			
M1400/16X190		190			
M1400/16X200		200			
M1400/16X220		220			
M1400/16X240		240			
M1400/16X260		260			
M1400/16X280		280			
M1400/16X300		300			

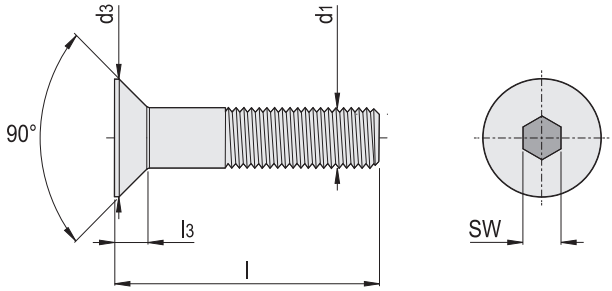
Sipariş Kodu	d1	l1	l3	d3	SW
M1400/16X320		320			
M1400/16X340		340			
M1400/16X360	**M16**	360	16	24	14
M1400/16X380		380			
M1400/16X400		400			
M1400/18X40		40			
M1400/18X50		50			
M1400/18X60		60			
M1400/18X70		70			
M1400/18X80		80			
M1400/18X90		90			
M1400/18X100	**M18**	100	18	27	14
M1400/18X110		110			
M1400/18X120		120			
M1400/18X130		130			
M1400/18X140		140			
M1400/18X150		150			
M1400/18X160		160			
M1400/18X180		180			
M1400/18X200		200			
M1400/20X45		45			
M1400/20X50		50			
M1400/20X55		55			
M1400/20X60		60			
M1400/20X65		65			
M1400/20X70		70			
M1400/20X80		80			
M1400/20X90		90			
M1400/20X100		100			
M1400/20X110		110			
M1400/20X120		120			
M1400/20X130		130			
M1400/20X140	**M20**	140	20	30	17
M1400/20X150		150			
M1400/20X160		160			
M1400/20X170		170			
M1400/20X180		180			
M1400/20X190		190			
M1400/20X200		200			
M1400/20X220		220			
M1400/20X240		240			
M1400/20X260		260			
M1400/20X280		280			
M1400/20X300		300			
M1400/20X320		320			
M1400/20X340		340			
M1400/20X360		360			
M1400/20X380		380			
M1400/20X400		400			
M1400/22X60		60			
M1400/22X70	**M22**	70	22	33	17
M1400/22X80		80			
M1400/22X90		90			

Sipariş Kodu	d1	l1	l3	d3	SW
M1400/22X100		100			
M1400/22X110		110			
M1400/22X120		120			
M1400/22X130		130			
M1400/22X140	**M22**	140	22	33	17
M1400/22X150		150			
M1400/22X160		160			
M1400/22X180		180			
M1400/22X200		200			
M1400/24X50		50			
M1400/24X60		60			
M1400/24X70		70			
M1400/24X80		80			
M1400/24X90		90			
M1400/24X100		100			
M1400/24X110		110			
M1400/24X120		120			
M1400/24X130		130			
M1400/24X140		140			
M1400/24X150		150			
M1400/24X160	**M24**	160	27	36	19
M1400/24X170		170			
M1400/24X180		180			
M1400/24X200		200			
M1400/24X220		220			
M1400/24X240		240			
M1400/24X260		260			
M1400/24X280		280			
M1400/24X300		300			
M1400/24X320		320			
M1400/24X340		340			
M1400/24X360		360			
M1400/24X380		380			
M1400/24X400		400			
M1400/27X60		60			
M1400/27X70		70			
M1400/27X80		80			
M1400/27X90		90			
M1400/27X100		100			
M1400/27X110		110			
M1400/27X120		120			
M1400/27X130		130			
M1400/27X140	**M27**	140	27	40	19
M1400/27X150		150			
M1400/27X160		160			
M1400/27X180		180			
M1400/27X200		200			
M1400/30X60		60			
M1400/30X70		70			
M1400/30X80		80			
M1400/30X90		90			
M1400/30X100		100			
M1400/30X110		110			

Sipariş Kodu	d1	l1	l3	d3	SW
M1400/30X120		120			
M1400/30X130		130			
M1400/30X140		140			
M1400/30X150		150			
M1400/30X160		160			
M1400/30X180	**M30**	180	30	45	22
M1400/30X200		200			
M1400/30X220		220			
M1400/30X240		240			
M1400/30X260		260			
M1400/30X280		280			
M1400/30X300		300			

M1404 10.9 Kalite Havşa Başlı İnbus Civata DIN 7991





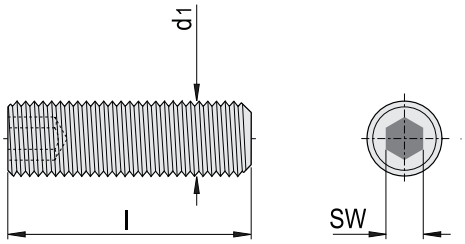
Sipariş Kodu	d1	l1	l3	d3	SW
M1404/3X6		6			
M1404/3X8		8			
M1404/3X10		10			
M1404/3X12	M3	12	1.7	6	2
M1404/3X16		16			
M1404/3X20		20			
M1404/3X25		25			
M1404/3X30		30			
M1404/4X8		8			
M1404/4X10		10			
M1404/4X12		12			
M1404/4X16		16			
M1404/4X20		20			
M1404/4X25	M4	25	2.3	8	2.5
M1404/4X30		30			
M1404/4X35		35			
M1404/4X40		40			
M1404/4X50		50			
M1404/4X60		60			
M1404/5X8		8			
M1404/5X10		10			
M1404/5X12		12			
M1404/5X16		16			
M1404/5X20		20			
M1404/5X25	M5	25	2.8	10	3
M1404/5X30		30			
M1404/5X35		35			
M1404/5X40		40			
M1404/5X50		50			
M1404/5X60		60			
M1404/6X10		10			
M1404/6X12		12			
M1404/6X16		16			
M1404/6X20		20			
M1404/6X25	M6	25	3.3	12	4
M1404/6X30		30			
M1404/6X35		35			

Sipariş Kodu	d1	l1	l3	d3	SW
M1404/6X40		40			
M1404/6X50		50			
M1404/6X60		60			
M1404/6X70	M6	70	3.3	12	4
M1404/6X80		80			
M1404/6X90		90			
M1404/6X100		100			
M1404/8X10		10			
M1404/8X12		12			
M1404/8X16		16			
M1404/8X20		20			
M1404/8X25		25			
M1404/8X30		30			
M1404/8X35	M8	35	4.4	16	5
M1404/8X40		40			
M1404/8X50		50			
M1404/8X60		60			
M1404/8X70		70			
M1404/8X80		80			
M1404/8X90		90			
M1404/8X100		100			
M1404/10X16		16			
M1404/10X20		20			
M1404/10X25		25			
M1404/10X30		30			
M1404/10X35		35			
M1404/10X40	M10	40	5.5	20	6
M1404/10X50		50			
M1404/10X60		60			
M1404/10X70		70			
M1404/10X80		80			
M1404/10X90		90			
M1404/10X100		100			
M1404/12X20		20			
M1404/12X25	M12	25	6.5	24	8
M1404/12X30		30			
M1404/12X35		35			

Sipariş Kodu	d1	l1	l3	d3	SW
M1404/12X40		40			
M1404/12X50		50			
M1404/12X60		60			
M1404/12X70	M12	70	6.5	24	8
M1404/12X80		80			
M1404/12X90		90			
M1404/12X100		100			
M1404/14X30		30			
M1404/14X35		35			
M1404/14X40		40			
M1404/14X50	M14	50	7	27	10
M1404/14X60		60			
M1404/14X70		70			
M1404/14X80		80			
M1404/14X90		90			
M1404/14X100		100			
M1404/16X30		30			
M1404/16X35		35			
M1404/16X40		40			
M1404/16X50		50			
M1404/16X60	M16	60	7.5	30	10
M1404/16X70		70			
M1404/16X80		80			
M1404/16X90		90			
M1404/16X100		100			
M1404/20X40		40			
M1404/20X50		50			
M1404/20X60		60			
M1404/20X70	M20	70	8.5	36	12
M1404/20X80		80			
M1404/20X90		90			
M1404/20X100		100			

M1406 Setskur Civata 14.9 Kalite DIN 913 ISO 4026





Sipariş Kodu	d1	l	SW
M1406/3X4	M3	4	1.5
M1406/3X5		5	
M1406/3X6		6	
M1406/3X8		8	
M1406/3X10		10	
M1406/3X12		12	
M1406/3X16		16	
M1406/3X20		20	
M1406/3X25		25	
M1406/3X30		30	
M1406/4X4	M4	4	2
M1406/4X5		5	
M1406/4X6		6	
M1406/4X8		8	
M1406/4X10		10	
M1406/4X12		12	
M1406/4X16		16	
M1406/4X20		20	
M1406/4X25		25	
M1406/4X30		30	
M1406/4X35		35	
M1406/4X40		40	
M1406/5X5	M5	5	2.5
M1406/5X6		6	
M1406/5X8		8	
M1406/5X10		10	
M1406/5X12		12	
M1406/5X16		16	
M1406/5X20		20	
M1406/5X25		25	
M1406/5X30		30	
M1406/5X35		35	
M1406/5X40		40	
M1406/6X6	M6	6	3
M1406/6X8		8	
M1406/6X10		10	
M1406/6X12		12	

Sipariş Kodu	d1	l	SW
M1406/6X16	M6	16	3
M1406/6X20		20	
M1406/6X25		25	
M1406/6X30		30	
M1406/6X35		35	
M1406/6X40		40	
M1406/6X50		50	
M1406/6X60		60	
M1406/6X70		70	
M1406/8X8	M8	8	4
M1406/8X10		10	
M1406/8X12		12	
M1406/8X16		16	
M1406/8X20		20	
M1406/8X25		25	
M1406/8X30		30	
M1406/8X35		35	
M1406/8X40		40	
M1406/8X50		50	
M1406/8X60		60	
M1406/8X70		70	
M1406/8X80		80	
M1406/10X10	M10	10	5
M1406/10X12		12	
M1406/10X16		16	
M1406/10X20		20	
M1406/10X25		25	
M1406/10X30		30	
M1406/10X35		35	
M1406/10X40		40	
M1406/10X50		50	
M1406/10X60		60	
M1406/10X70		70	
M1406/10X80		80	
M1406/12X10	M12	10	6
M1406/12X12		12	
M1406/12X16		16	

Sipariş Kodu	d1	l	SW
M1406/12X20	M12	20	6
M1406/12X25		25	
M1406/12X30		30	
M1406/12X35		35	
M1406/12X40		40	
M1406/12X50		50	
M1406/12X60		60	
M1406/12X70		70	
M1406/12X80		80	
M1406/14X16	M14	16	6
M1406/14X20		20	
M1406/14X25		25	
M1406/14X30		30	
M1406/14X35		35	
M1406/14X40		40	
M1406/14X50		50	
M1406/14X60		60	
M1406/14X70		70	
M1406/16X16	M16	16	8
M1406/16X20		20	
M1406/16X25		25	
M1406/16X30		30	
M1406/16X35		35	
M1406/16X40		40	
M1406/16X50		50	
M1406/16X60		60	
M1406/16X70		70	
M1406/16X80		80	
M1406/20X20	M20	20	10
M1406/20X25		25	
M1406/20X30		30	
M1406/20X35		35	
M1406/20X40		40	
M1406/20X50		50	

M1402 İnbus Civata 8.8 Kalite DIN 912



Sipariş Örneği M1402/ Metrik x Boy

Boy(mm)	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
8	●	●	●	●	●										
10	●	●	●	●	●										
12	●	●	●	●	●										
16	●	●	●	●	●	●									
20	●	●	●	●	●	●	●								
25	●	●	●	●	●	●	●	●	●						
30	●	●	●	●	●	●	●	●	●						
35		●	●	●	●	●	●	●	●						
40	●	●	●	●	●	●	●	●	●	●	●				
45				●	●	●	●	●	●		●				
50	●	●	●	●	●	●	●	●	●	●	●		●		
55				●	●	●	●	●	●		●				
60		●	●	●	●	●	●	●	●	●	●	●	●	●	●
70		●	●	●	●	●	●	●	●	●	●	●	●	●	●
80		●	●	●	●	●	●	●	●	●	●	●	●	●	●
90		●	●	●	●	●	●	●	●	●	●	●	●	●	●
100		●	●	●	●	●	●	●	●	●	●	●	●	●	●
110			●	●	●	●	●	●	●		●	●	●	●	●
120			●	●	●	●	●	●	●	●	●	●	●	●	●
130			●	●	●	●	●	●	●		●	●	●	●	●
140			●	●	●	●	●	●	●	●	●	●	●	●	●
150			●	●	●	●	●	●	●	●	●	●	●	●	●
160				●	●	●	●	●	●	●	●		●		●
170						●	●	●	●		●				
180				●	●	●	●	●	●	●	●		●		●
190						●	●	●	●		●				
200				●	●	●	●	●	●	●	●		●		●
220						●	●	●	●		●		●		
240						●	●	●	●		●		●		
260						●	●		●		●		●		
280						●	●		●		●		●		
300						●	●		●		●		●		

M1412 Altı Köşe Metrik Çelik Civata 8.8 Kalite DIN 931/933



Sipariş Örneği: M1412/ Metrik x Boy

Boy(mm)	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36
10	●	●		●												
12	●	●	●	●												
16	●	●	●	●	●											
20	●	●	●	●	●											
25	●	●	●	●	●	●										
30	●	●	●	●	●	●	●	●								
35	●	●	●	●	●	●	●	●								
40	●	●	●	●	●	●	●	●	●	●	●	●				
45	●	●	●	●	●	●	●	●	●	●	●	●				
50	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
55	●	●	●	●	●	●	●	●	●	●	●	●				
60	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
70	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●
80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
90	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
110		●		●	●	●	●	●	●	●	●	●	●	●	●	●
120		●		●	●	●	●	●	●	●	●	●	●	●	●	●
130		●		●	●	●	●	●	●	●	●	●	●	●	●	●
140		●		●	●	●	●	●	●	●	●	●	●	●	●	●
150		●		●	●	●	●	●	●	●	●	●	●	●	●	●
160		●		●	●	●	●	●	●	●	●	●	●	●	●	●
170				●	●	●	●	●	●	●	●	●	●	●	●	●
180				●	●	●	●	●	●	●	●	●	●	●	●	●
190					●	●	●	●	●	●	●	●	●	●	●	●
200				●	●	●	●	●	●	●	●	●	●	●	●	●

M1413 Gijon / Saplama DIN 975



Sipariş Örneği: M1413/ Metrik

Metrik (1M)	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45
Kaplamalı	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Kaplamasız	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Withwort (1M)	5/32”	3/16”	1/4”	5/16”	3/8”	7/16”	1/2”	9/16”	5/8”	3/4”	7/8”	1”	1 1/8”	1 1/4”					
Kaplamalı	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
Kaplamasız	●	●	●	●	●	●	●	●	●	●	●	●	●	●					

M1407 Çelik Somun DIN 934



Sipariş Örneği M1407/ Metrik

Metrik	M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64
Kaplamalı	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

İnce Diş	M8x1	M10x1	M10x1.25	M12x1.25	M12x1.5	M14x1.5	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x1.5			
Kaplamalı	●	●	●	●	●	●	●	●	●	●	●			
Withwort	1/4”	5/16”	3/8”	7/16”	1/2”	9/16”	5/8”	3/4”	7/8”	1”	1” 12-14Di•	1 1/8”	1 1/4”	1 1/2”
Kaplamalı	●	●	●	●	●	●	●	●	●	●	●	●	●	●
İnce Diş	M10x1	M10x1.25	M12x1.25	M12x1.5	M14x1.5	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x1.5				
Kaplamalı	●	●	●	●	●	●	●	●	●	●				

M1408 Fiberli Somun DIN 985



Sipariş Örneği M1408/ Metrik

Metrik	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
Kaplamalı	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Withwort	1/4”	5/16”	3/8”	7/16”	1/2”	9/16”	5/8”	3/4”	7/8”	1” 14 Diş				
Kaplamalı	●	●	●	●	●	●	●	●	●	●				
İnce Diş	M10x1	M10x1.25	M12x1.25	M12x1.5	M14x1.5	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x1.5				
Kaplamalı	●	●	●	●	●	●	●	●	●	●				

M1409 Kör Somun DIN 1587



Sipariş Örneği M1409/ Metrik

Metrik	M4	M5	M6	M8	M10	M12
Kaplamalı	●	●	●	●	●	●

M1438 Metrik Flanşlı Somun DIN 6923



Sipariş Örneği M1438/ Metrik

Metrik	M4	M5	M6	M8	M10	M12	M14	M16
Kaplamalı	●	●	●	●	●	●	●	●

M1439 Kelebek Somun DIN 1587



Sipariş Örneği M1439/ Metrik

Metrik	M5	M6	M8	M10	M12
Kaplamalı	●	●	●	●	●

M1414 Metrik Düz Pul DIN 1587



Sipariş Örneği: M1414/ Metrik

Metrik	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
Kaplamalı	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Kaplamasız	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

M1415 Tırtıllı Pul DIN 6798



Sipariş Örneği: M1415/ Metrik

Metrik	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
Kaplamalı	●	●	●	●	●	●	●	●	●	●	●		●		

M1416 Yaylı Rondela DIN 127



Sipariş Örneği: M1416/ Metrik

Metrik	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33
Kaplamalı	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

M1417 Bakır Pul DIN 7603



Sipariş Örneği: M1417/ Metrik

Metrik	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33
	●	●	●	●	●	●	●	●	●	●	●	●	●	●

M1418 Alüminyum Pul



Sipariş Örneği: M1418/ Metrik

Metrik	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M30
	●	●	●	●	●	●	●	●	●	●	●	●

M1420 Paslanmaz İmbus Civata A2 INOX



Sipariş Örneği M1420/Metrik x Boy

Boy(mm)	M4	M5	M6	M8	M10	M12	M14	M16	M20
8	●	●	●						
10	●	●	●	●					
12	●	●	●	●					
16	●	●	●	●	●				
20	●	●	●	●	●	●			
25	●	●	●	●	●	●		●	
30	●	●	●	●	●	●	●	●	
35	●	●	●	●	●	●	●	●	
40	●	●	●	●	●	●	●	●	●
45	●	●	●	●	●	●	●	●	●
50	●	●	●	●	●	●	●	●	●
60	●	●	●	●	●	●	●	●	●
70		●	●	●	●	●	●	●	●
80		●	●	●	●	●	●	●	●
90		●	●	●	●	●	●	●	●
100		●	●	●	●	●	●	●	●
110			●	●	●	●	●	●	●
120			●	●	●	●	●	●	●
130			●	●	●	●	●	●	●
140				●	●	●	●	●	●
150				●	●	●	●	●	●

M1422 Paslanmaz Altı Köşe Metrik Civata A2-DIN 933



Sipariş Örneği: M1422/ Metrik x Boy

Boy(mm)	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24
10	●	●	●	●						
12	●	●	●	●						
16	●	●	●	●	●					
20	●	●	●	●	●	●	●			
25	●	●	●	●	●	●	●	●		
30	●	●	●	●	●	●	●	●		
35	●	●	●	●	●	●	●	●		
40	●	●	●	●	●	●	●	●	●	
45	●	●	●	●	●	●	●	●	●	
50	●	●	●	●	●	●	●	●	●	●
60		●	●	●	●	●	●	●	●	●
70		●	●	●	●	●	●	●	●	●
80		●	●	●	●	●	●	●	●	●
90			●	●	●	●	●	●	●	●
100			●	●	●	●	●	●	●	●
110			●	●	●	●	●	●	●	●
120			●	●	●	●	●	●	●	●
130			●	●	●	●	●	●	●	●
140				●	●	●	●	●	●	●
150				●	●	●	●	●	●	●
160								●	●	●
170								●	●	●
180								●	●	●
190								●	●	●
200								●	●	●

M1424 Paslanmaz Havşa Başlı İmbus Civata A2-DIN 7991



Sipariş Örneği M1424/ Metrik x Boy

Boy mm	10	12	16	20	25	30	35	40	50	60	70
M4	●	●	●	●	●	●	●	●	●		
M5	●	●	●	●	●	●	●	●	●	●	
M6	●	●	●	●	●	●	●	●	●	●	●
M8	●	●	●	●	●	●	●	●	●	●	●
M10			●	●	●	●	●	●	●	●	●
M12				●	●	●	●	●	●	●	●
M16						●	●	●	●	●	●

M1426 14.9 Setskur Civata DIN 916



Sipariş Örneği M1426/ Metrik x Boy

Boy mm	4	5	6	8	10	12	16	20	25	30	35	40	50	60
M3			●	●	●	●	●	●						
M4	●	●	●	●	●	●	●	●	●					
M5	●	●	●	●	●	●	●	●	●	●	●	●		
M6			●	●	●	●	●	●	●	●	●	●		
M8				●	●	●	●	●	●	●	●	●		
M10					●	●	●	●	●	●	●	●		
M12						●	●	●	●	●	●	●	●	
M16										●	●	●	●	●

M1427 Paslanmaz Metrik Somun A2-DIN 934



Sipariş Örneği M1427/ Metrik

Metrik	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

M1428 Paslanmaz Fiberli Somun A2-DIN 985



Sipariş Örneği M1428/ Metrik

Metrik	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24
	●	●	●	●	●	●	●	●	●	●	●

M1429 Paslanmaz Kör Somun A2-DIN 1587



Sipariş Örneği M1429/ Metrik

Metrik	M4	M5	M6	M8	M10	M12	M14	M16
	●	●	●	●	●	●	●	●

M1413P Paslanmaz Gijon A2-DIN 975



Sipariş Örneği M1433P/ Metrik

Metrik (1M)	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45
Paslanmaz	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

M1430 Paslanmaz Metrik Düz Pul A2-DIN 125



Sipariş Örneği M1430/ Metrik

Metrik	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
	●	●	●	●	●	●	●	●	●	●	●	●	●

M1432 Paslanmaz Metrik Yaylı Rondela A2-DIN 985



Sipariş Örneği M1432/ Metrik

Metrik	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
	●	●	●	●	●	●	●	●	●	●	●	●	●

M1433 Paslanmaz Tırtıllı Pul A2-DIN 6798



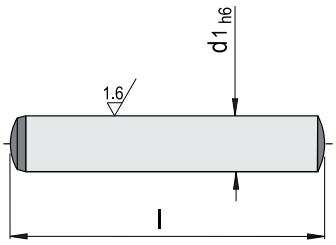
Sipariş Örneği M1433/ Metrik

Metrik	M4	M5	M6	M8	M10	M12	M14	M16
	●	●	●	●	●	●	●	●

M1450 Düz Tespit Pimi DIN 7991

Mat.: 1.7131 (16MnCr 5) ≈ 62±2 HRC





M1450 h6 Tolerans

M1451 m6 Tolerans

Sipariş Kodu	d1	l
M1450/3X10	3	10
M1450/3X15		15
M1450/3X20		20
M1450/3X25		25
M1450/3X30		30
M1450/3X35		35
M1450/4X10	4	10
M1450/4X15		15
M1450/4X20		20
M1450/4X25		25
M1450/4X30		30
M1450/4X35		35
M1450/4X40		40
M1450/4X45		45
M1450/4X50		50
M1450/4X55		55
M1450/4X60		60
M1450/4X70		70
M1450/4X80		80
M1450/5X10	5	10
M1450/5X15		15
M1450/5X20		20
M1450/5X25		25
M1450/5X30		30
M1450/5X35		35
M1450/5X40		40
M1450/5X45		45
M1450/5X50		50
M1450/5X55		55
M1450/5X60		60
M1450/5X70		70
M1450/5X80		80
M1450/6X10	6	10
M1450/6X15		15
M1450/6X20		20
M1450/6X25		25
M1450/6X30		30

Sipariş Kodu	d1	l
M1450/6X35	6	35
M1450/6X40		40
M1450/6X45		45
M1450/6X50		50
M1450/6X55		55
M1450/6X60		60
M1450/6X70		70
M1450/6X80		80
M1450/6X90		90
M1450/6X100		100
M1450/8X10	8	10
M1450/8X15		15
M1450/8X20		20
M1450/8X25		25
M1450/8X30		30
M1450/8X35		35
M1450/8X40		40
M1450/8X45		45
M1450/8X50		50
M1450/8X55		55
M1450/8X60		60
M1450/8X70		70
M1450/8X80		80
M1450/8X90		90
M1450/8X100		100
M1450/8X120		120
M1450/10X20	10	20
M1450/10X25		25
M1450/10X30		30
M1450/10X35		35
M1450/10X40		40
M1450/10X45		45
M1450/10X50		50
M1450/10X55		55
M1450/10X60		60
M1450/10X70		70
M1450/10X80		80

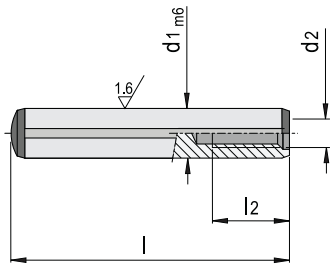
Sipariş Kodu	d1	l
M1450/10X90	10	90
M1450/10X100		100
M1450/10X120		120
M1450/10X140		140
M1450/12X20	12	20
M1450/12X25		25
M1450/12X30		30
M1450/12X35		35
M1450/12X40		40
M1450/12X45		45
M1450/12X50		50
M1450/12X55		55
M1450/12X60		60
M1450/12X70		70
M1450/12X80		80
M1450/12X90		90
M1450/12X100		100
M1450/12X120		120
M1450/12X140		140
M1450/12X160		160
M1450/14X30	14	30
M1450/14X35		35
M1450/14X40		40
M1450/14X45		45
M1450/14X50		50
M1450/14X55		55
M1450/14X60		60
M1450/14X70		70
M1450/14X80		80
M1450/14X90		90
M1450/14X100		100
M1450/14X120		120
M1450/14X140		140
M1450/14X160		160
M1450/16X30	16	30
M1450/16X35		35
M1450/16X40		40

Sipariş Kodu	d1	l
M1450/16X45	16	45
M1450/16X50		50
M1450/16X55		55
M1450/16X60		60
M1450/16X70		70
M1450/16X80		80
M1450/16X90		90
M1450/16X100		100
M1450/16X120		120
M1450/16X140		140
M1450/16X160		160
M1450/20X30	20	30
M1450/20X35		35
M1450/20X40		40
M1450/20X45		45
M1450/20X50		50
M1450/20X55		55
M1450/20X60		60
M1450/20X70		70
M1450/20X80		80
M1450/20X90		90
M1450/20X100		100
M1450/20X120		120
M1450/20X140		140
M1450/20X160		160

M1440 Çektirmeli Tespit Pimi DIN 7991

Mat.: 1.7131 (16MnCr 5) ≃ 62±2 HRC





M1440 h6 Tolerans

M1441 m6 Tolerans

Sipariş Kodu	d1	l	l2	d2
M1440/5X20		20		
M1440/5X25		25		
M1440/5X30		30		
M1440/5X35		35		
M1440/5X40		40		
M1440/5X45	5	45	4	M3
M1440/5X50		50		
M1440/5X55		55		
M1440/5X60		60		
M1440/5X70		70		
M1440/5X80		80		
M1440/6X10		10		
M1440/6X12		12		
M1440/6X15		15		
M1440/6X20		20		
M1440/6X25		25		
M1440/6X30		30		
M1440/6X35		35		
M1440/6X40	6	40	6	M4
M1440/6X45		45		
M1440/6X50		50		
M1440/6X55		55		
M1440/6X60		60		
M1440/6X70		70		
M1440/6X80		80		
M1440/6X90		90		
M1440/6X100		100		
M1440/8X10		10		
M1440/8X12		12		
M1440/8X15		15		
M1440/8X20		20		
M1440/8X25	8	25	8	M5
M1440/8X30		30		
M1440/8X35		35		
M1440/8X40		40		
M1440/8X45		45		
M1440/8X50		50		

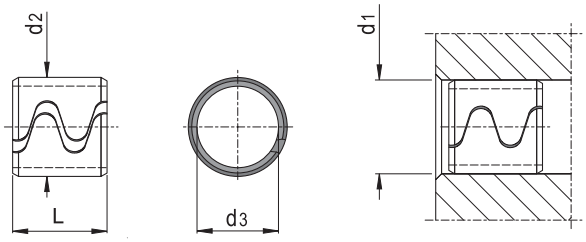
Sipariş Kodu	d1	l	l2	d2
M1440/8X55		55		
M1440/8X60		60		
M1440/8X70		70		
M1440/8X80	8	80	8	M5
M1440/8X90		90		
M1440/8X100		100		
M1440/8X120		120		
M1440/10X10		10		
M1440/10X12		12		
M1440/10X15		15		
M1440/10X20		20		
M1440/10X25		25		
M1440/10X30		30		
M1440/10X35		35		
M1440/10X40	10	40	10	M6
M1440/10X45		45		
M1440/10X50		50		
M1440/10X55		55		
M1440/10X60		60		
M1440/10X70		70		
M1440/10X80		80		
M1440/10X90		90		
M1440/10X100		100		
M1440/10X120		120		
M1440/12X20		20		
M1440/12X25		25		
M1440/12X30		30		
M1440/12X35		35		
M1440/12X40		40		
M1440/12X45		45		
M1440/12X50	12	50	10	M6
M1440/12X55		55		
M1440/12X60		60		
M1440/12X70		70		
M1440/12X80		80		
M1440/12X90		90		
M1440/12X100		100		

Sipariş Kodu	d1	l	l2	d2
M1440/12X120		120		
M1440/12X140	12	140	10	M6
M1440/12X150		150		
M1440/14X30		30		
M1440/14X35		35		
M1440/14X40		40		
M1440/14X45		45		
M1440/14X50		50		
M1440/14X55		55		
M1440/14X60	10	60	12	M8
M1440/14X70		70		
M1440/14X80		80		
M1440/14X90		90		
M1440/14X100		100		
M1440/14X120		120		
M1440/14X140		140		
M1440/14X150		150		
M1440/16X30		30		
M1440/16X35		35		
M1440/16X40		40		
M1440/16X45		45		
M1440/16X50		50		
M1440/16X55		55		
M1440/16X60	16	60	12	M8
M1440/16X70		70		
M1440/16X80		80		
M1440/16X90		90		
M1440/16X100		100		
M1440/16X120		120		
M1440/16X140		140		
M1440/16X150		150		
M1440/20X30		30		
M1440/20X35		35		
M1440/20X40		40		
M1440/20X45		45		
M1440/20X50		50		
M1440/20X55		55		
M1440/20X60	20	60	16	M10
M1440/20X70		70		
M1440/20X80		80		
M1440/20X90		90		
M1440/20X100		100		
M1440/20X120		120		
M1440/20X140		140		
M1440/20X150		150		

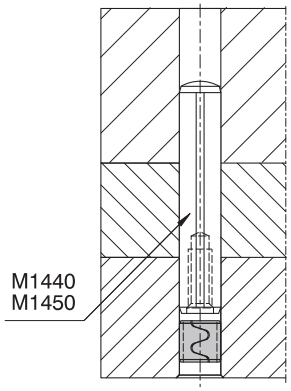
MSK687 Tespit Pimi Emniyet Segmanı

Mat.: 1.8159



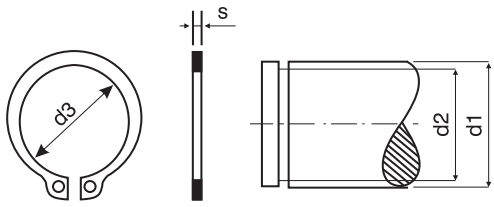


Sipariş Kodu	d2	d3	d1	L
MSK687/5	5.3	4.3	5	6
MSK687/6	6.3	4.8	6	8
MSK687/8	8.4	6.9	8	
MSK687/10	10.5	8.5	10	12
MSK687/12	12.5	10.5	12	
MSK687/14	14.5	11.5	14	
MSK687/16	16.8	13.5	16	16



MSK471 Mil Sekmanı DIN 471



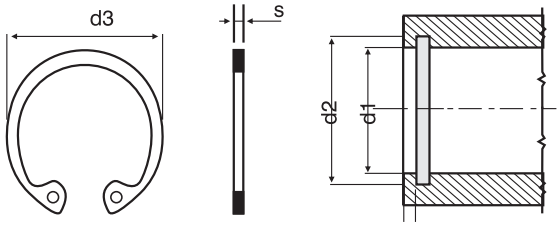


Sipariş Kodu	d1	d3	s	d2
MSK471/4	**4**	3.7	0.40	3.8
MSK471/5	**5**	4.7	0.60	4.8
MSK471/6	**6**	5.6	0.70	5.7
MSK471/7	**7**	6.5	0.80	6.7
MSK471/8	**8**	7.4	0.80	7.6
MSK471/9	**9**	8.4	1.00	8.6
MSK471/10	**10**	9.3	1.00	9.6
MSK471/11	**11**	10.2	1.00	10.5
MSK471/12	**12**	11.0	1.00	11.5
MSK471/13	**13**	11.9	1.00	12.4
MSK471/14	**14**	12.9	1.00	13.4
MSK471/15	**15**	13.8	1.00	14.3
MSK471/16	**16**	14.7	1.00	15.2
MSK471/17	**17**	15.7	1.00	16.2
MSK471/18	**18**	16.5	1.20	17.0
MSK471/19	**19**	175.	1.20	18.0
MSK471/20	**20**	18.5	1.20	19.0
MSK471/21	**21**	19.5	1.20	20.0
MSK471/22	**22**	20.5	1.20	21.0
MSK471/23	**23**	21.5	1.20	22.0
MSK471/24	**24**	22.2	1.20	22.9
MSK471/25	**25**	23.2	1.20	23.9
MSK471/26	**26**	24.2	1.20	24.9
MSK471/27	**27**	24.9	1.20	25.6
MSK471/28	**28**	25.9	1.50	26.6
MSK471/29	**29**	26.9	1.50	27.6
MSK471/30	**30**	27.9	1.50	28.6
MSK471/31	**31**	28.6	1.50	29.3
MSK471/32	**32**	29.6	1.50	30.3
MSK471/33	**33**	30.5	1.50	31.3
MSK471/34	**34**	31.5	1.50	32.3
MSK471/35	**35**	32.2	1.50	33.0
MSK471/36	**36**	33.2	1.75	34.0
MSK471/37	**37**	34.2	1.75	35.0
MSK471/38	**38**	35.2	1.75	36.0
MSK471/39	**39**	36.0	1.75	37.0
MSK471/40	**40**	36.5	1.75	37.5
MSK471/41	**41**	37.5	1.75	38.5
MSK471/42	**42**	38.5	1.75	39.5
MSK471/44	**44**	40.5	1.75	41.5
MSK471/45	**45**	41.5	1.75	42.5
MSK471/46	**46**	42.5	1.75	43.5
MSK471/47	**47**	43.5	1.75	44.5
MSK471/48	**48**	44.5	1.75	45.5
MSK471/50	**50**	45.8	2.00	47.0
MSK471/52	**52**	47.8	2.00	49.0
MSK471/54	**54**	49.8	2.00	51.0
MSK471/55	**55**	50.8	2.00	52.0
MSK471/56	**56**	51.8	2.00	53.0
MSK471/57	**57**	52.8	2.00	24.0
MSK471/58	**58**	53.8	2.00	55.0
MSK471/60	**60**	55.8	2.00	57.0
MSK471/62	**62**	57.8	2.00	59.0
MSK471/63	**63**	58.8	2.00	60.0
MSK471/65	**65**	60.8	2.50	62.0

Sipariş Kodu	d1	d3	s	d2
MSK471/67	**67**	62.5	2.5	64.0
MSK471/68	**68**	63.5	2.5	65.0
MSK471/70	**70**	65.5	2.5	67.0
MSK471/72	**72**	67.5	2.5	39.0
MSK471/75	**75**	70.5	2.5	72.0
MSK471/80	**80**	74.5	2.5	76.5
MSK471/82	**82**	76.5	2.5	78.5
MSK471/85	**85**	79.5	3.0	81.5
MSK471/90	**90**	84.5	3.0	86.5
MSK471/92	**92**	86.5	3.0	88.5
MSK471/95	**95**	89.5	3.0	91.5
MSK471/100	**100**	94.5	3.0	96.5
MSK471/102	**102**	95.0	4.0	98.0
MSK471/105	**105**	98.0	4.0	101.0
MSK471/108	**108**	100.0	4.0	104.0
MSK471/110	**110**	103.0	4.0	106.0
MSK471/115	**115**	108.0	4.0	111.0
MSK471/120	**120**	113.0	4.0	116.0
MSK471/125	**125**	118.0	4.0	121.0
MSK471/130	**130**	123.0	4.0	126.0
MSK471/135	**135**	128.0	4.0	131.0
MSK471/140	**140**	133.0	4.0	136.0
MSK471/145	**145**	138.0	4.0	141.0
MSK471/150	**150**	142.0	4.0	145.0
MSK471/155	**155**	146.0	4.0	150.0
MSK471/160	**160**	151.0	4.0	155.0
MSK471/165	**165**	155.5	4.0	160.0
MSK471/170	**170**	160.5	4.0	165.0
MSK471/180	**180**	170.5	4.0	175.0
MSK471/190	**190**	180.5	4.0	185.0
MSK471/200	**200**	190.5	4.0	195.0
MSK471/210	**210**	198.0	5.0	204.0
MSK471/215	**215**	203.0	5.0	209.0
MSK471/220	**220**	208.0	5.0	214.0
MSK471/225	**225**	213.0	5.0	219.0
MSK471/230	**230**	218.0	5.0	224.0
MSK471/235	**235**	223.0	5.0	229.0
MSK471/240	**240**	228.0	5.0	234.0
MSK471/245	**245**	233.0	5.0	239.0
MSK471/250	**250**	238.0	5.0	244.0
MSK471/255	**255**	240.0	5.0	247.0
MSK471/260	**260**	245.0	5.0	252.0
MSK471/265	**265**	250.0	5.0	257.0
MSK471/270	**270**	255.0	5.0	262.0
MSK471/275	**275**	260.0	5.0	267.0
MSK471/280	**280**	265.0	5.0	272.0
MSK471/285	**285**	270.0	5.0	277.0
MSK471/290	**290**	275.0	5.0	282.0
MSK471/295	**295**	280.0	5.0	287.0
MSK471/300	**300**	285.0	5.0	292.0
MSK471/310	**310**	293.0	6.0	300.0
MSK471/320	**320**	303.0	6.0	310.0
MSK471/330	**330**	313.0	6.0	320.0
MSK471/340	**340**	323.0	6.0	330.0
MSK471/350	**350**	333.0	6.0	340.0

MSK472 Delik Sekmanı DIN 472



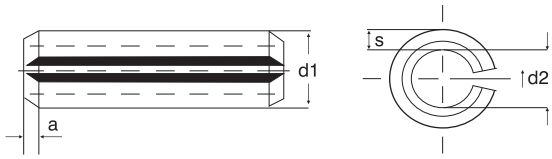


Sipariş Kodu	d1	d3	s	d2
MSK472/8	**8**	8.7	0.80	8.4
MSK472/9	**9**	9.8	0.80	9.4
MSK472/10	**10**	10.8	1.00	10.4
MSK472/11	**11**	11.8	1.00	11.4
MSK472/12	**12**	13.0	1.00	12.5
MSK472/13	**13**	14.1	1.00	13.6
MSK472/14	**14**	15.1	1.00	14.6
MSK472/15	**15**	16.2	1.00	15.7
MSK472/16	**16**	17.3	1.00	16.8
MSK472/17	**17**	18.3	1.00	17.8
MSK472/18	**18**	19.5	1.00	19.0
MSK472/19	**19**	20.5	1.00	20.0
MSK472/20	**20**	21.5	1.00	21.0
MSK472/21	**21**	22.5	1.00	22.0
MSK472/22	**22**	23.5	1.00	23.0
MSK472/23	**23**	24.6	1.20	24.1
MSK472/24	**24**	25.9	1.20	25.2
MSK472/25	**25**	26.9	1.20	26.2
MSK472/26	**26**	27.9	1.20	27.2
MSK472/27	**27**	29.1	1.20	28.4
MSK472/28	**28**	30.1	1.20	29.4
MSK472/29	**29**	31.1	1.20	30.4
MSK472/30	**30**	32.1	1.20	31.4
MSK472/31	**31**	33.4	1.20	32.7
MSK472/32	**32**	34.4	1.20	33.7
MSK472/33	**33**	35.5	1.20	34.7
MSK472/34	**34**	36.5	1.50	25.7
MSK472/35	**35**	37.8	1.50	37.0
MSK472/36	**36**	38.8	1.50	38.0
MSK472/37	**37**	39.8	1.50	39.0
MSK472/38	**38**	40.8	1.50	40.0
MSK472/39	**39**	42.0	1.50	41.0
MSK472/40	**40**	43.5	1.75	42.5
MSK472/41	**41**	44.5	1.75	43.5
MSK472/42	**42**	45.5	1.75	44.5
MSK472/44	**44**	47.5	1.75	46.5
MSK472/45	**45**	48.5	1.75	47.5
MSK472/46	**46**	49.5	1.75	48.5
MSK472/47	**47**	50.5	1.75	49.5
MSK472/48	**48**	51.5	1.75	50.5
MSK472/50	**50**	54.2	2.00	53.0
MSK472/52	**52**	56.2	2.00	55.0
MSK472/53	**53**	57.2	2.00	56.0
MSK472/55	**55**	59.2	2.00	58.0
MSK472/56	**56**	60.2	2.00	59.0
MSK472/57	**57**	61.2	2.00	60.0
MSK472/58	**58**	62.2	2.00	61.0
MSK472/60	**60**	64.2	2.00	63.0
MSK472/62	**62**	66.2	2.00	65.0
MSK472/63	**63**	67.2	2.00	66.0
MSK472/65	**65**	69.2	2.50	68.0
MSK472/67	**67**	71.5	2.50	70.0
MSK472/68	**68**	72.5	2.50	71.0
MSK472/70	**70**	74.5	2.50	73.0
MSK472/72	**72**	76.5	2.50	75.0

Sipariş Kodu	d1	d3	s	d2
MSK472/75	**75**	79.5	2.5	78.0
MSK472/80	**80**	85.5	2.5	83.5
MSK472/82	**82**	87.5	2.5	85.5
MSK472/85	**85**	90.5	3.0	88.5
MSK472/90	**90**	95.5	3.0	93.5
MSK472/92	**92**	97.5	3.0	95.5
MSK472/95	**95**	100.5	3.0	98.5
MSK472/100	**100**	105.5	3.0	103.5
MSK472/102	**102**	108.0	4.0	160.0
MSK472/105	**105**	112.0	4.0	109.0
MSK472/108	**108**	115.0	4.0	111.0
MSK472/110	**110**	117.0	4.0	114.0
MSK472/115	**115**	122.0	4.0	119.0
MSK472/120	**120**	127.0	4.0	124.0
MSK472/125	**125**	132.0	4.0	129.0
MSK472/130	**130**	137.0	4.0	134.0
MSK472/135	**135**	142.0	4.0	139.0
MSK472/140	**140**	147.0	4.0	144.0
MSK472/145	**145**	152.0	4.0	149.0
MSK472/150	**150**	158.0	4.0	155.0
MSK472/155	**155**	164.0	4.0	160.0
MSK472/160	**160**	169.0	4.0	165.0
MSK472/165	**165**	174.5	4.0	170.0
MSK472/170	**170**	179.5	4.0	175.0
MSK472/175	**175**	184.5	4.0	180.0
MSK472/180	**180**	189.5	4.0	185.0
MSK472/190	**190**	199.5	4.0	195.0
MSK472/200	**200**	209.5	4.0	205.0
MSK472/210	**210**	222.0	5.0	214.0
MSK472/215	**215**	227.0	5.0	221.0
MSK472/220	**220**	232.0	5.0	224.0
MSK472/225	**225**	237.0	5.0	231.0
MSK472/230	**230**	242.0	5.0	236.0
MSK472/235	**235**	247.0	5.0	241.0
MSK472/240	**240**	252.0	5.0	246.0
MSK472/245	**245**	257.0	5.0	251.0
MSK472/250	**250**	262.0	5.0	256.0
MSK472/255	**255**	270.0	5.0	263.0
MSK472/260	**260**	275.0	5.0	266.0
MSK472/265	**265**	280.0	5.0	273.0
MSK472/270	**270**	285.0	5.0	276.0
MSK472/275	**275**	290.0	5.0	283.0
MSK472/280	**280**	295.0	5.0	286.0
MSK472/285	**285**	300.0	5.0	295.0
MSK472/290	**290**	305.0	5.0	296.0
MSK472/300	**300**	315.0	5.0	308.0
MSK472/310	**310**	327.0	6.0	320.0
MSK472/320	**320**	337.0	6.0	330.0
MSK472/330	**330**	347.0	6.0	340.0
MSK472/340	**340**	357.0	6.0	350.0
MSK472/350	**350**	367.0	6.0	360.0
MSK472/360	**360**	377.0	6.0	370.0
MSK472/370	**370**	387.0	6.0	380.0
MSK472/380	**380**	397.0	6.0	390.0
MSK472/400	**400**	417.0	6.0	410.0

MYB148 Yarıklı Boru Pimi DIN 1481





Sipariş Örneği MYB148/Delik Çapı

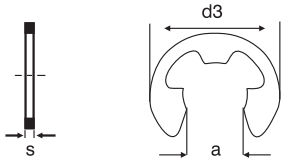
EBAT / BOY	M1 M1.5	M2	M2.5	M3	M3.5	M4	M4.5	M5	M6	M7	M8	M10	M12	M14	M16	M18 M20
5	●	●	●	●	●	●	●	●								
6	●	●	●	●	●	●	●	●	●							
8	●	●	●	●	●	●	●	●	●							
10	●	●	●	●	●	●	●	●	●		●	●				
12	●	●	●	●	●	●	●	●	●		●	●	●			
14	●	●	●	●	●	●	●	●	●		●	●	●			
16	●	●	●	●	●	●	●	●	●	●	●	●	●			
18	●	●	●	●	●	●	●	●	●	●	●	●	●			
20	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
22		●	●	●	●	●	●	●	●	●	●	●	●	●		
24		●	●	●	●	●	●	●	●	●	●	●	●	●		
26		●	●	●	●	●	●	●	●	●	●	●	●	●		
28		●	●	●	●	●	●	●	●	●	●	●	●	●		
30		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
32		●		●	●	●	●	●	●	●	●	●	●	●	●	
34				-	-			●	●							
35				-	-	●		●	●		●					
36				●	●	●	●	●	●	●	●	●	●	●	●	
38				-	-	●		●			●					
40				●	●	●	●	●	●	●	●	●	●	●	●	●
45				●	●	●	●	●	●	●	●	●	●	●	●	●
50				●	●	●	●	●	●	●	●	●	●	●	●	●
55						●	●	●	●	●	●	●	●	●	●	●
60						●	●	●	●	●	●	●	●	●	●	●
65							●	●	●	●	●	●	●	●	●	-
70							●	●	●	●	●	●	●	●	●	●
75							●	●	●	●	●	●	●			
80							●	●	●	●	●	●	●	●	●	●
85									●	●	●					-
90									●	●	●	●	●	●	●	●
100									●	●	●	●	●	●	●	●
120										●	●	●	●		●	●

Delik Çapı Ø	d1		a		İç Çap≈	Kalınlık
	max.	min.	max.	min.	d2	s
1	1.3	1.2	0.35	0.15	0.8	0.20
1.5	1.8	1.7	0.45	0.25	1.1	0.30
2	2.4	2.3	0.55	0.35	1.5	0.40
2.5	2.9	2.8	0.60	0.40	1.8	0.50
3	3.5	3.3	0.70	0.50	2.1	0.60
3.5	4.0	3.8	0.80	0.60	2.3	0.75
4	4.6	4.4	0.85	0.65	2.8	0.80
4.5	5.1	4.9	1.00	0.80	2.9	1.00
5	5.6	5.4	1.10	0.90	3.4	1.00
6	6.7	6.4	1.40	1.20	4.0	1.20
8	8.8	8.5	2.00	1.60	5.5	1.50
10	10.8	10.5	2.40	2.00	6.5	2.00
12	12.8	12.5	2.40	2.00	7.5	2.50
13	13.8	13.5	2.40	2.00	8.5	2.50
14	14.8	14.5	2.40	2.00	8.5	3.00
16	16.8	16.5	2.40	2.00	10.5	3.00
18	18.9	18.5	2.40	2.00	11.5	3.50
20	20.9	20.5	3.40	3.00	12.5	4.00
21	21.9	21.5	3.40	3.00	13.5	4.00
25	25.9	25.5	3.40	3.00	15.5	5.00
28	28.9	28.5	3.40	3.00	17.5	5.50
30	30.9	30.5	3.40	3.00	18.5	6.00
32	32.9	32.5	3.60	3.00	20.5	6.00
35	35.9	35.5	3.60	3.00	21.5	7.00
38	38.9	38.5	4.60	4.00	23.5	7.50
40	40.9	40.5	4.60	4.00	25.5	7.50
45	45.9	45.5	4.60	4.00	28.5	8.50
50	50.9	50.5	4.60	4.00	31.5	9.50

MSK679 Ay Sekman DİN 6799



Sipariş Örneği MSK679/Ölçü

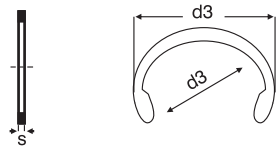


Ölçü	1.2	1.5	1.9	2.3	3.2	4	5	6	7	8	10	12	15	19	24	30
d3	2.90	3.90	3.90	5.90	6.90	8.85	10.85	11.80	13.80	15.75	19.70	22.70	28.70	36.50	43.50	51.30
a	1.01	1.28	1.61	1.94	2.70	3.34	4.11	5.26	5.84	6.52	8.32	10.45	12.61	15.92	21.88	25.80
s	0.30	0.40	0.50	0.60	0.70	0.70	0.70	0.70	0.90	1.00	1.20	1.30	1.50	1.75	2.00	2.50

MSK680 H Sekman DİN 6799



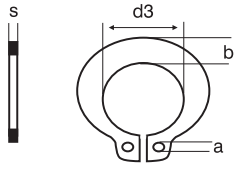
Sipariş Örneği MSK680/Ölçü



Ölçü	3	4	5	6	7	8	9	10	11	12	13	14	15	16
d3	2.18	3.00	3.80	4.80	5.80	6.80	7.80	8.75	9.65	10.55	11.40	12.30	13.20	14.10
d4	3.98	5.00	6.20	7.40	8.60	10.00	11.20	12.15	13.20	14.35	15.40	16.30	17.40	18.50
s	0.40	0.40	0.60	0.70	0.80	0.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ölçü	**17**	**18**	**19**	**20**	**22**	**23**	**24**	**25**	**26**	**28**	**32**	**40**	**42**	**48**
d3	14.90	15.80	16.70	17.55	19.40	20.20	21.10	22.00	22.90	24.60	28.10	35.20	37.00	42.30
d4	19.40	20.40	21.50	22.65	25.00	26.00	27.10	28.30	29.40	31.60	36.10	45.00	47.20	54.10
s	1.00	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.50	1.50	1.75	1.75	1.75

MSK682 Takviyeli (G) Mil Sekman DİN 6799





Sipariş Kodu	Ölçü	d3	b	a	s
MSK682/6	6	5.70	2.4	3.2	1.00
MSK682/8	8	7.70	3.0	3.5	1.00
MSK682/9	9	8.65	3.3	4.7	1.20
MSK682/11	11	10.60	4.2	4.8	1.20
MSK682/12	12	11.60	4.6	4.8	1.20
MSK682/13	13	12.55	5.0	5.3	1.20
MSK682/15	15	14.50	5.6	5.1	1.50
MSK682/16	16	15.40	5.8	5.6	1.50
MSK682/17	17	16.35	6.2	6.0	1.75

Kalıp Sayaçları ve Etiketler









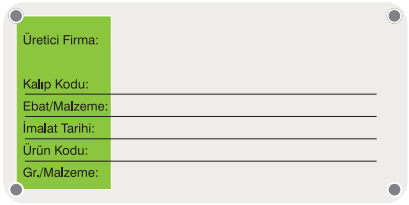
Kalıp Kimlik Kartları

Baskılı aluminyum plakalar plastik ve metal enjeksiyon olarak 2 ayrı renktedir.
Ürün standart tip , firmanıza özel baskılı ve logolu olarak talep edilebilir.

Kalınlık : 0,50 mm
Montaj :Ambalaj içerisinde perçinler mevcuttur.
Montaj yuvalarına Ø 2,5 x 10 mm derinlik açılıp, perçinler çakılırak montaj sonlandırılır.

Plastik Enjeksiyon

90 mm

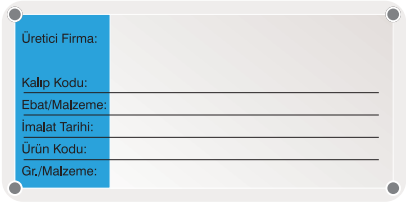


44 mm

Sipariş Kodu MDE200

Metal Enjeksiyon

90 mm



44 mm

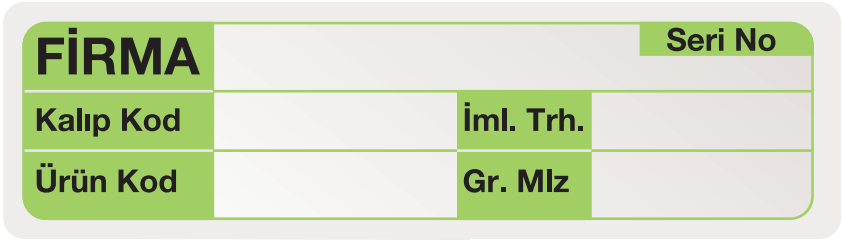
Sipariş Kodu MDE202

Pres Sac Kalıp

Baskılı aluminyum plakalar plastik ve metal enjeksiyon olarak 2 ayrı renktedir.
Ürün standart tip , firmanıza özel baskılı ve logolu olarak talep edilebilir.

Kalınlık : 0,50 mm
Montaj :Ambalaj içerisinde perçinler mevcuttur.
Montaj yuvalarına Ø 2,5 x 10 mm derinlik açılıp, perçinler çakılırak montaj sonlandırılır.

90 mm



22 mm

Sipariş Kodu MDE204

Kalıp Kimlik Kartı Yazı Kalemi

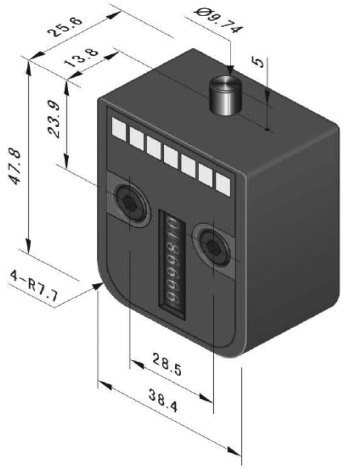


Sipariş Kodu MED750 / SY
Sipariş Kodu MED750 / BY
Sipariş Kodu MED750 / KR
Sipariş Kodu MED750 / SR
Sipariş Kodu MED750 / MV
Sipariş Kodu MED750 / YL
Sipariş Kodu MED750 / AL
Sipariş Kodu MED750 / GM

Enjeksiyon Sayaçları

MLD142 Kalıp Sayaçları

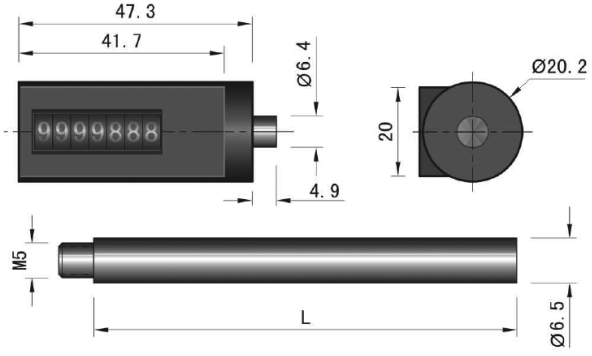




Sipariş Kodu	Model
MLD142-100	12D

MLD143 Kalıp Sayaçları



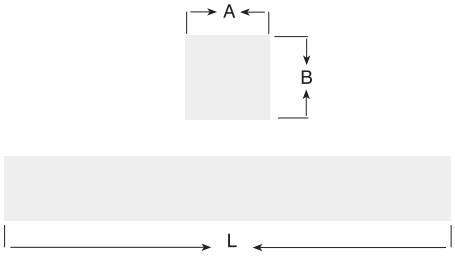


Sipariş Kodu	Model
MLD143-100	12Y

Çelik Rakam ve Harfler Düz ve Ters



Çelik Rakam Takım



Numara 9'Lu Set Numara Ölçüsü	A	B	L
1 mm Set	6	6	65
1,5 mm Set	6	6	65
2 mm Set	6	6	65
2,5 mm Set	6	6	65
3 mm Set	6	6	65
4 mm Set	7	7	65
5 mm Set	8	8	65
6 mm Set	9	9	75
8 mm Set	11	11	76
10 mm Set	12	12	80
12 mm Set	14	14	80
16 mm Set	16	16	85
18 mm Set	15	15	101
20 mm Set	15	15	101

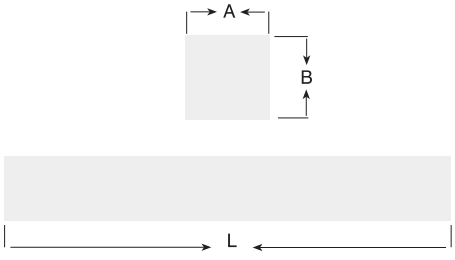
4	Standart Markalama
	MCRS/001
	MCRS/015
	MCRS/002
	MCRS/025
	MCRS/003
	MCRS/004
	MCRS/005
	MCRS/006
	MCRS/008
	MCRS/100
	MCRS/120
	MCRS/160
	MCRS/180
	MCRS/200

4	Ters Markalama
	MCRT/001
	MCRT/015
	MCRT/002
	MCRT/025
	MCRT/003
	MCRT/004
	MCRT/005
	MCRT/006
	MCRT/008
	MCRT/100
	MCRT/120

4	Nikel Kaplı
	MCRN/001
	MCRN/015
	MCRN/002
	MCRN/025
	MCRN/003
	MCRN/004
	MCRN/005
	MCRN/006
	MCRN/008
	MCRN/100
	MCRN/120
	MCRN/160
	MCRN/180
	MCRN/200



Çelik Harf Takım



Harf 27'Li Set Harf Ölçüsü	A	B	L
1 mm Set	6	6	65
1,5 mm Set	6	6	65
2 mm Set	6	6	65
2,5 mm Set	6	6	65
3 mm Set	6	6	65
4 mm Set	7	7	65
5 mm Set	8	8	65
6 mm Set	9	9	75
8 mm Set	11	11	76
10 mm Set	12	12	80
12 mm Set	14	14	80
16 mm Set	16	16	85
18 mm Set	15	15	101
20 mm Set	15	15	101

E	Standart Markalama
	MCRS/001
	MCRS/015
	MCRS/002
	MCRS/025
	MCRS/003
	MCRS/004
	MCRS/005
	MCRS/006
	MCRS/008
	MCRS/100
	MCRS/120
	MCRS/160
	MCRS/180
	MCRS/200

E	Ters Markalama
	MCRT/001
	MCRT/015
	MCRT/002
	MCRT/025
	MCRT/003
	MCRT/004
	MCRT/005
	MCRT/006
	MCRT/008
	MCRT/100
	MCRT/120

E	Nikel Kaplı
	MCRN/001
	MCRN/015
	MCRN/002
	MCRN/025
	MCRN/003
	MCRN/004
	MCRN/005
	MCRN/006
	MCRN/008
	MCRN/100
	MCRN/120
	MCRN/160
	MCRN/180
	MCRN/200

Mekanik Sayaçlar



Sipariş Kodu MTRM01

- Çarpmalı
- Üstten sıfırlamalı
- 5 haneli



Sipariş Kodu MTRM02

- Dönerek Kayıt, Metraj Turmetre
- Yandan Kollu
- 5 haneli



Sipariş Kodu MTRM03

- Dönmeli
- Üstten sıfırlamalı
- 5 haneli



Sipariş Kodu MTRM04

- Çarpmalı
- Üsttan sıfırlamalı (Küçük boy)
- 4 haneli

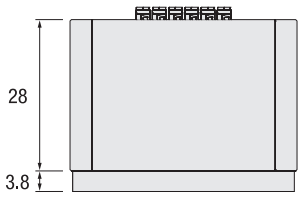


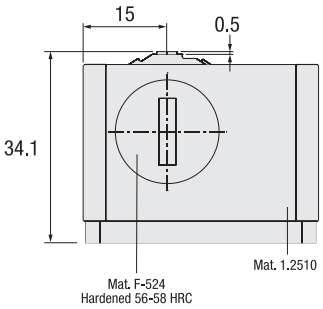
Sipariş Kodu MTRM05

- Çarpmalı
- Yandan sıfırlamalı
- 5 haneli

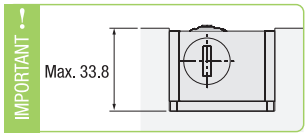
MUM Markalama Ünitesi

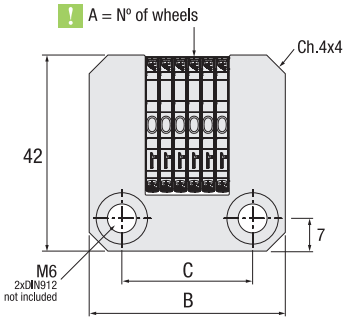


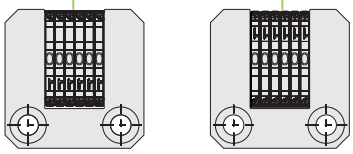




Sipariş Kodu		A	B	C
MUM-043642	MUM-0436RV	4	36	22
MUM-064242	MUM-0642RV	6	42	28





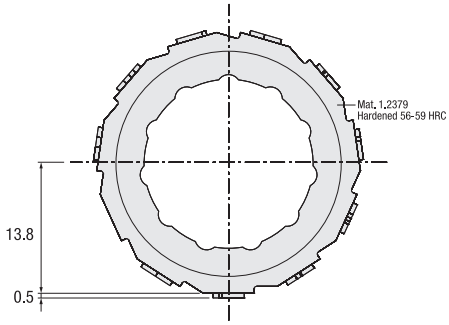


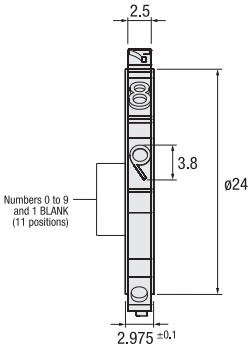
Normal Pozisyon Ters Pozisyon

MRR Değiştirilebilir Tekerlek



Sipariş Kodu	MRR-180311





Karbür Frezeler



MLD12 Karbür Freze Düz Dört Ağız Z4

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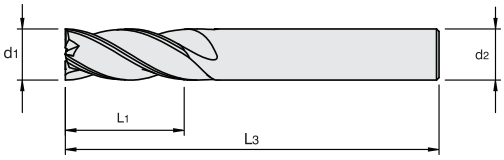
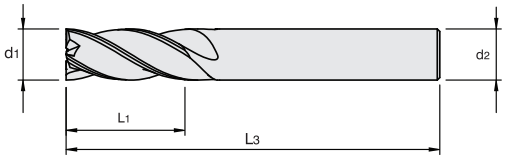


0.6 µm | 35° | 4 Flutes | HRC ▸55 | MLX | Co %10

Sipariş Kodu	d1	L1	L3	d2
MLD12-100	**1**	2	50	4
MLD12-110	**1.5**	3	50	4
MLD12-120	**2**	4	50	4
MLD12-130	**2.5**	5	50	4
MLD12-140	**3**	8	50	4
MLD12-150	**3.5**	10	50	4
MLD12-160	**4**	11	50	4
MLD12-170	**4.5**	13	50	5
MLD12-180	**5**	13	50	5
MLD12-190	**5.5**	13	50	6
MLD12-200	**6**	15	50	6
MLD12-210	**6.5**	15	60	8
MLD12-220	**7**	20	60	8
MLD12-230	**7.5**	20	60	8
MLD12-240	**8**	20	60	8
MLD12-250	**8.5**	20	72	10
MLD12-260	**9**	22	72	10
MLD12-270	**9.5**	22	72	10
MLD12-280	**10**	25	72	10
MLD12-290	**11**	25	83	12
MLD12-300	**12**	26	83	12
MLD12-310	**14**	26	83	14
MLD12-320	**16**	32	92	16
MLD12-330	**18**	32	92	18
MLD12-340	**20**	45	100	20
MLD12-350	**25**	55	110	25

MLD14 Karbür Freze Düz Uzun Dört Ağız Z4





0.6 µm | 35° | 4 Flutes | HRC ▸55 | MLX | Co %10

Sipariş Kodu	d1	L1	L3	d2
MLD14-100	**1**	6	50	4
MLD14-110	**1.5**	9	50	4
MLD14-120	**2**	12	50	4
MLD14-130	**2.5**	12	50	4
MLD14-140	**3**	15	75	4
MLD14-150	**3.5**	15	75	4
MLD14-160	**4**	15	75	4
MLD14-170	**4**	25	100	4
MLD14-180	**5**	20	75	5
MLD14-190	**5**	25	100	5
MLD14-200	**6**	20	75	6
MLD14-210	**6**	30	100	6
MLD14-220	**7**	20	100	8
MLD14-230	**8**	25	100	8
MLD14-240	**8**	50	150	8
MLD14-250	**9**	40	100	10
MLD14-260	**10**	45	100	10
MLD14-270	**10**	65	150	10
MLD14-280	**11**	40	100	12
MLD14-290	**12**	45	100	12
MLD14-300	**12**	65	150	12
MLD14-310	**14**	45	100	14
MLD14-320	**14**	65	150	14
MLD14-330	**16**	45	100	16
MLD14-340	**16**	65	150	16
MLD14-350	**18**	65	150	18
MLD14-360	**20**	75	150	20
MLD14-370	**25**	75	150	25

MLD16 Karbür Freze Küre İki Ağız Z2

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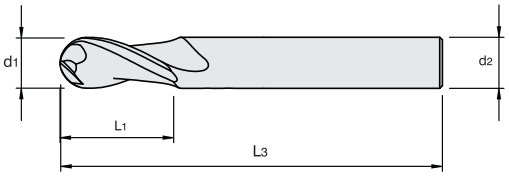
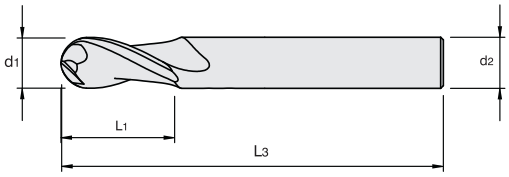


0.6 µm | 35° | 2 Flutes | HRC ▸55 | MLX | Co %10

Sipariş Kodu	d1	L1	L3	d2
MLD16-100	**1**	1.2	50	4
MLD16-110	**1.5**	1.7	50	4
MLD16-120	**2**	2.2	50	4
MLD16-130	**2.5**	2.7	50	4
MLD16-140	**3**	5	50	3
MLD16-150	**3.5**	7	50	4
MLD16-160	**4**	6	50	4
MLD16-170	**5**	7	50	5
MLD16-180	**6**	9	50	6
MLD16-190	**7**	10	60	8
MLD16-200	**8**	10	60	8
MLD16-210	**9**	15	60	10
MLD16-220	**10**	15	72	10
MLD16-230	**12**	17	75	12
MLD16-240	**14**	20	83	14
MLD16-250	**16**	25	92	16
MLD16-260	**18**	25	92	18
MLD16-270	**20**	25	92	20

MLD18 Karbür Freze Uzun Küre İki Ağız Z2





0.6 µm | 35° | 2 Flutes | HRC ▸55 | MLX | Co %10

Sipariş Kodu	d1	L1	L3	d2
MLD18-100	**1**	2	75	4
MLD18-110	**1**	2	100	4
MLD18-120	**1.5**	3	75	4
MLD18-130	**1.5**	3	100	4
MLD18-140	**2**	4	75	4
MLD18-150	**2**	4	100	4
MLD18-160	**2.5**	5	75	4
MLD18-170	**2.5**	5	100	4
MLD18-180	**3**	8	75	3
MLD18-190	**3**	8	100	3
MLD18-200	**4**	9	75	4
MLD18-210	**4**	9	100	4
MLD18-220	**5**	10	75	5
MLD18-230	**5**	10	100	5
MLD18-240	**6**	12	75	6
MLD18-250	**6**	12	100	6
MLD18-260	**6**	16	150	6
MLD18-270	**8**	13	75	8
MLD18-280	**8**	16	100	8
MLD18-290	**8**	18	150	8
MLD18-300	**10**	15	100	10
MLD18-310	**10**	20	150	10
MLD18-320	**10**	24	200	10
MLD18-330	**12**	20	100	12
MLD18-340	**12**	22	150	12
MLD18-350	**12**	22	200	12
MLD18-360	**14**	25	150	14
MLD18-370	**16**	26	150	16
MLD18-380	**16**	32	200	16
MLD18-390	**18**	32	150	18
MLD18-400	**20**	32	150	20

MLD20 Karbür Freze Köşe Radyus Dört Ağız Z4

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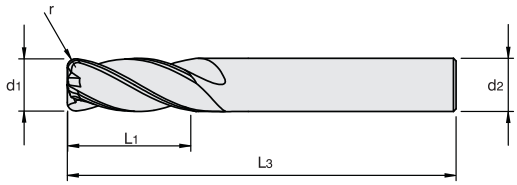
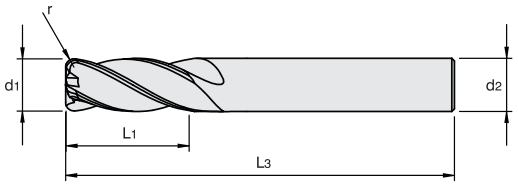


0.6 µm | 35° | 4 Flutes | HRC ▸55 | MLX | Co %10 | R

Sipariş Kodu	d1	r	L1	L3	d2
MLD20-100	2	0,3	6	50	3
MLD20-110	2	0,5	6	50	3
MLD20-120	3	0,3	8	50	3
MLD20-130	3	0,5	8	50	3
MLD20-140	3	1	8	50	3
MLD20-150	4	0,3	10	50	4
MLD20-160	4	0,5	10	50	4
MLD20-170	4	1	10	50	4
MLD20-180	5	0,3	13	50	5
MLD20-190	5	0,5	13	50	5
MLD20-200	5	1	13	50	5
MLD20-210	6	0,3	15	50	6
MLD20-220	6	0,5	15	50	6
MLD20-230	6	1	15	50	6
MLD20-240	6	2	15	50	6
MLD20-250	8	0,5	20	60	8
MLD20-260	8	1	20	60	8
MLD20-270	8	2	20	60	8
MLD20-280	10	0,5	25	72	10
MLD20-290	10	1	25	72	10
MLD20-300	10	2	25	72	10
MLD20-310	12	0,5	30	83	12
MLD20-320	12	1	30	83	12
MLD20-330	12	2	30	83	12
MLD20-340	14	1	30	83	14
MLD20-350	14	2	30	83	14
MLD20-360	16	1	30	92	16
MLD20-370	16	2	30	92	16
MLD20-380	18	1	30	100	18
MLD20-390	18	2	30	100	18
MLD20-400	20	1	35	100	20
MLD20-410	20	2	35	100	20

MLD22 Karbür Freze Uzun Köşe Radyus Dört Ağız Z4





0.6 µm | 35° | 4 Flutes | HRC ▸55 | MLX | Co %10 | R

Sipariş Kodu	d1	r	L1	L3	d2
MLD22-100	3	0,5	8	100	3
MLD22-110	3	1	8	100	3
MLD22-120	4	0,5	10	75	4
MLD22-130	4	1	10	75	4
MLD22-140	4	0,5	10	100	4
MLD22-150	4	1	10	100	4
MLD22-160	5	0,5	10	75	5
MLD22-170	5	1	10	75	5
MLD22-180	5	0,5	10	100	5
MLD22-190	5	1	10	100	5
MLD22-200	6	0,5	15	75	6
MLD22-210	6	1	15	75	6
MLD22-220	6	0,5	15	100	6
MLD22-230	6	1	15	100	6
MLD22-240	6	0,5	15	150	6
MLD22-250	6	1	15	150	6
MLD22-260	8	0,5	18	100	8
MLD22-270	8	1	18	100	8
MLD22-280	8	0,5	18	150	8
MLD22-290	8	1	18	150	8
MLD22-300	10	0,5	25	100	10
MLD22-310	10	1	25	100	10
MLD22-320	10	0,5	25	150	10
MLD22-330	10	1	25	150	10
MLD22-340	12	0,5	30	100	12
MLD22-350	12	1	30	100	12
MLD22-360	12	0,5	30	150	12
MLD22-370	12	1	30	150	12
MLD22-380	16	1	35	150	16
MLD22-390	16	2	35	150	16
MLD22-400	20	1	35	150	20
MLD22-410	20	2	35	150	20

MLD30 Karbür Freze Düz Dalma İki Ağız Z2 / Z4

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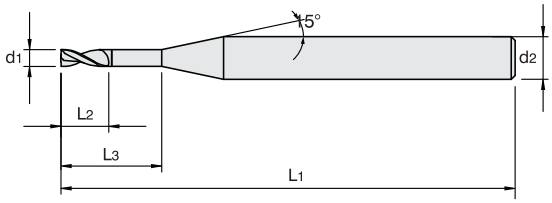
Genel İşleme







Sipariş Kodu	d1	L2	L3	L1	d2	z
MLD30-100	**0,5**	**0,7**	4	50	4	2
MLD30-110	**0,5**	**0,7**	6	50	4	2
MLD30-120	**0,5**	**0,7**	8	50	4	2
MLD30-130	**0,5**	**0,7**	10	50	4	2
MLD30-140	**1**	**1,2**	4	50	4	2
MLD30-150	**1**	**1,2**	6	50	4	2
MLD30-160	**1**	**1,2**	8	50	4	2
MLD30-170	**1**	**1,2**	10	50	4	2
MLD30-180	**1**	**1,2**	12	50	4	2
MLD30-190	**1**	**1,2**	14	50	4	2
MLD30-200	**1**	**1,2**	16	50	4	2
MLD30-210	**1**	**1,2**	20	50	4	2
MLD30-220	**1,5**	**1,7**	4	50	4	2
MLD30-230	**1,5**	**1,7**	6	50	4	2
MLD30-240	**1,5**	**1,7**	8	50	4	2
MLD30-250	**1,5**	**1,7**	10	50	4	2
MLD30-260	**1,5**	**1,7**	12	50	4	2
MLD30-270	**1,5**	**1,7**	14	50	4	2
MLD30-280	**1,5**	**1,7**	16	50	4	2
MLD30-290	**1,5**	**1,7**	20	50	4	2
MLD30-300	**2**	**2,2**	6	50	4	2
MLD30-310	**2**	**2,2**	8	50	4	2
MLD30-320	**2**	**2,2**	10	50	4	2
MLD30-330	**2**	**2,2**	12	50	4	2
MLD30-340	**2**	**2,2**	14	50	4	2
MLD30-350	**2**	**2,2**	16	50	4	2
MLD30-360	**2**	**2,2**	20	50	4	2

Sipariş Kodu	d1	L2	L3	L1	d2	z
MLD30-370	**2,5**	**2,7**	6	50	4	2
MLD30-380	**2,5**	**2,7**	8	50	4	2
MLD30-390	**2,5**	**2,7**	10	50	4	2
MLD30-400	**2,5**	**2,7**	12	50	4	2
MLD30-410	**2,5**	**2,7**	14	50	4	2
MLD30-420	**2,5**	**2,7**	16	50	4	2
MLD30-430	**2,5**	**2,7**	20	50	4	2
MLD30-440	**2,5**	**2,7**	25	75	4	2
MLD30-450	**3**	**4**	10	50	6	4
MLD30-460	**3**	**4**	12	50	6	4
MLD30-470	**3**	**4**	14	50	6	4
MLD30-480	**3**	**4**	16	50	6	4
MLD30-490	**3**	**4**	20	50	6	4
MLD30-500	**3**	**4**	25	75	6	4
MLD30-510	**3**	**4**	30	75	6	4
MLD30-520	**3**	**4**	35	75	6	4
MLD30-530	**4**	**5**	10	50	6	4
MLD30-540	**4**	**5**	12	50	6	4
MLD30-550	**4**	**5**	14	50	6	4
MLD30-560	**4**	**5**	16	50	6	4
MLD30-570	**4**	**5**	20	50	6	4
MLD30-580	**4**	**5**	25	75	6	4
MLD30-590	**4**	**5**	30	75	6	4
MLD30-600	**4**	**5**	35	75	6	4

MLD32 Karbür Freze Küre Dalma İki Ağız Z2

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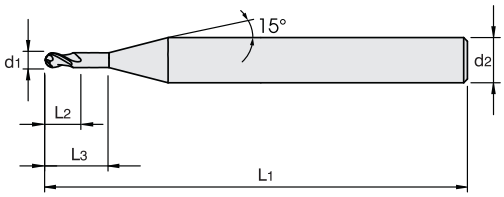
Gen Serisi

Genel İşleme







Sipariş Kodu	d1	L2	L3	L1	d2	z
MLD32-100	**1**	**1,2**	4	50	4	2
MLD32-110	**1**	**1,2**	6	50	4	2
MLD32-120	**1**	**1,2**	8	50	4	2
MLD32-130	**1**	**1,2**	10	50	4	2
MLD32-140	**1**	**1,2**	12	50	4	2
MLD32-150	**1**	**1,2**	14	50	4	2
MLD32-160	**1**	**1,2**	16	50	4	2
MLD32-170	**1**	**1,2**	20	50	4	2
MLD32-180	**1,5**	**1,7**	4	50	4	2
MLD32-190	**1,5**	**1,7**	6	50	4	2
MLD32-200	**1,5**	**1,7**	8	50	4	2
MLD32-210	**1,5**	**1,7**	10	50	4	2
MLD32-220	**1,5**	**1,7**	12	50	4	2
MLD32-230	**1,5**	**1,7**	14	50	4	2
MLD32-240	**1,5**	**1,7**	16	50	4	2
MLD32-250	**1,5**	**1,7**	20	50	4	2
MLD32-260	**2**	**2,2**	6	50	4	2
MLD32-270	**2**	**2,2**	8	50	4	2
MLD32-280	**2**	**2,2**	10	50	4	2
MLD32-290	**2**	**2,2**	12	50	4	2
MLD32-300	**2**	**2,2**	14	50	4	2
MLD32-310	**2**	**2,2**	16	50	4	2
MLD32-320	**2**	**2,2**	20	50	4	2

Sipariş Kodu	d1	L2	L3	L1	d2	z
MLD32-330	**2,5**	**2,7**	6	50	4	2
MLD32-340	**2,5**	**2,7**	8	50	4	2
MLD32-350	**2,5**	**2,7**	10	50	4	2
MLD32-360	**2,5**	**2,7**	12	50	4	2
MLD32-370	**2,5**	**2,7**	14	50	4	2
MLD32-380	**2,5**	**2,7**	16	50	4	2
MLD32-390	**2,5**	**2,7**	20	50	4	2
MLD32-400	**2,5**	**2,7**	25	75	4	2
MLD32-410	**3**	**4**	10	50	6	2
MLD32-420	**3**	**4**	12	50	6	2
MLD32-430	**3**	**4**	14	50	6	2
MLD32-440	**3**	**4**	16	50	6	2
MLD32-450	**3**	**4**	20	50	6	2
MLD32-460	**3**	**4**	25	75	6	2
MLD32-470	**3**	**4**	30	75	6	2
MLD32-480	**3**	**4**	35	75	6	2
MLD32-490	**4**	**5**	10	50	6	2
MLD32-500	**4**	**5**	12	50	6	2
MLD32-510	**4**	**5**	14	50	6	2
MLD32-520	**4**	**5**	16	50	6	2
MLD32-530	**4**	**5**	20	50	6	2
MLD32-540	**4**	**5**	25	75	6	2
MLD32-550	**4**	**5**	30	75	6	2
MLD32-560	**4**	**5**	35	75	6	2

MLD34 Köşe Radyus Dalma Freze İki Ağız Z2 / Z4

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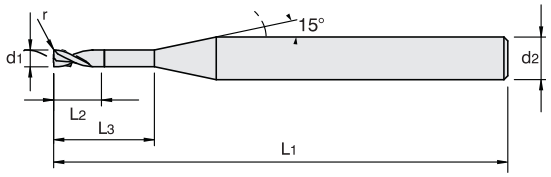
Gen Serisi

Genel İşleme



Z2 Z4





Sipariş Kodu	d1	L2	L3	L1	d2	z	r
MLD34-100	1	1,2	4	50	4	2	0,2
MLD34-110	1	1,2	6	50	4	2	0,2
MLD34-120	1	1,2	8	50	4	2	0,2
MLD34-130	1	1,2	10	50	4	2	0,2
MLD34-140	1	1,2	12	50	4	2	0,2
MLD34-150	1	1,2	14	50	4	2	0,2
MLD34-160	1	1,2	16	50	4	2	0,2
MLD34-170	1	1,2	20	50	4	2	0,2
MLD34-180	1,5	1,7	4	50	4	2	0,2
MLD34-190	1,5	1,7	6	50	4	2	0,2
MLD34-200	1,5	1,7	8	50	4	2	0,2
MLD34-210	1,5	1,7	10	50	4	2	0,2
MLD34-220	1,5	1,7	12	50	4	2	0,2
MLD34-230	1,5	1,7	14	50	4	2	0,2
MLD34-240	1,5	1,7	16	50	4	2	0,2
MLD34-250	1,5	1,7	20	50	4	2	0,2
MLD34-260	1,5	1,7	4	50	4	2	0,5
MLD34-270	1,5	1,7	6	50	4	2	0,5
MLD34-280	1,5	1,7	8	50	4	2	0,5
MLD34-290	1,5	1,7	10	50	4	2	0,5
MLD34-300	1,5	1,7	12	50	4	2	0,5
MLD34-310	1,5	1,7	14	50	4	2	0,5
MLD34-320	1,5	1,7	16	50	4	2	0,5
MLD34-330	1,5	1,7	20	50	4	2	0,5
MLD34-340	2	2,2	6	50	4	2	0,2
MLD34-350	2	2,2	8	50	4	2	0,2
MLD34-360	2	2,2	10	50	4	2	0,2
MLD34-370	2	2,2	12	50	4	2	0,2
MLD34-380	2	2,2	14	50	4	2	0,2
MLD34-390	2	2,2	16	50	4	2	0,2
MLD34-400	2	2,2	20	50	4	2	0,2
MLD34-410	2	2,2	6	50	4	2	0,5
MLD34-420	2	2,2	8	50	4	2	0,5
MLD34-430	2	2,2	10	50	4	2	0,5
MLD34-440	2	2,2	12	50	4	2	0,5
MLD34-450	2	2,2	14	50	4	2	0,5
MLD34-460	2	2,2	16	50	4	2	0,5
MLD34-470	2	2,2	20	50	4	2	0,5
MLD34-480	2,5	2,7	6	50	4	2	0,2
MLD34-490	2,5	2,7	8	50	4	2	0,2
MLD34-500	2,5	2,7	10	50	4	2	0,2
MLD34-510	2,5	2,7	12	50	4	2	0,2
MLD34-520	2,5	2,7	14	50	4	2	0,2

Sipariş Kodu	d1	L2	L3	L1	d2	z	r
MLD34-530	2,5	2,7	16	50	4	2	0,2
MLD34-540	2,5	2,7	20	50	4	2	0,2
MLD34-550	2,5	2,7	25	50	4	2	0,2
MLD34-560	2,5	2,7	6	50	4	2	0,5
MLD34-570	2,5	2,7	8	50	4	2	0,5
MLD34-580	2,5	2,7	10	50	4	2	0,5
MLD34-590	2,5	2,7	12	50	4	2	0,5
MLD34-600	2,5	2,7	14	50	4	2	0,5
MLD34-610	2,5	2,7	16	50	4	2	0,5
MLD34-620	2,5	2,7	20	50	4	2	0,5
MLD34-630	2,5	2,7	25	75	4	2	0,5
MLD34-640	3	3,2	10	50	6	2	0,2
MLD34-650	3	3,2	12	50	6	4	0,2
MLD34-660	3	3,2	14	50	6	4	0,2
MLD34-670	3	3,2	16	50	6	4	0,2
MLD34-680	3	3,2	20	50	6	4	0,2
MLD34-690	3	3,2	25	75	6	4	0,2
MLD34-700	3	3,2	30	75	6	4	0,2
MLD34-710	3	3,2	35	75	6	4	0,2
MLD34-720	3	3,2	10	50	6	4	0,5
MLD34-730	3	3,2	12	50	6	4	0,5
MLD34-740	3	3,2	14	50	6	4	0,5
MLD34-750	3	3,2	16	50	6	4	0,5
MLD34-760	3	3,2	20	50	6	4	0,5
MLD34-770	3	3,2	25	75	6	4	0,5
MLD34-780	3	3,2	30	75	6	4	0,5
MLD34-790	3	3,2	35	75	6	4	0,3
MLD34-800	4	4,2	10	50	6	4	0,3
MLD34-810	4	4,2	12	50	6	4	0,3
MLD34-820	4	4,2	14	50	6	4	0,3
MLD34-830	4	4,2	16	50	6	4	0,3
MLD34-840	4	4,2	20	50	6	4	0,3
MLD34-850	4	4,2	25	75	6	4	0,3
MLD34-860	4	4,2	30	75	6	4	0,3
MLD34-870	4	4,2	35	75	6	4	0,3
MLD34-880	4	4,2	10	50	6	4	0,5
MLD34-890	4	4,2	12	50	6	4	0,5
MLD34-900	4	4,2	14	50	6	4	0,5
MLD34-910	4	4,2	16	50	6	4	0,5
MLD34-920	4	4,2	20	50	6	4	0,5
MLD34-930	4	4,2	25	75	6	4	0,5
MLD34-940	4	4,2	30	75	6	4	0,5
MLD34-950	4	4,2	35	75	6	4	0,5

MLD36 Köşe Radyus Boğazlı Finiş Freze Altı Ağız Z6



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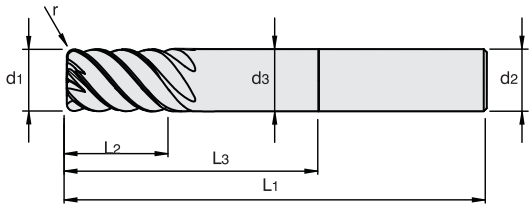
Gen Serisi

Genel İşleme



0.6 µm | 45° | 6 Flutes | HRC ▸55 | MLX | Co %10

Sipariş Kodu	d1	L2	L3	L1	d2	z	r	d3
MLD36-100	**6**	8	25	50	6	6	0,3	5,8
MLD36-110	**6**	8	40	75	6	6	0,3	5,8
MLD36-120	**8**	10	30	60	8	6	0,3	7,7
MLD36-130	**8**	10	65	100	8	6	0,3	7,7
MLD36-140	**10**	12	35	72	10	6	0,5	9,5
MLD36-150	**10**	12	65	100	10	6	0,5	9,5
MLD36-160	**12**	16	35	83	12	6	0,5	11,5
MLD36-170	**12**	16	65	100	12	6	0,5	11,5
MLD36-180	**16**	24	40	100	16	6	1	15,5
MLD36-190	**16**	24	90	150	16	6	1	15,5

MLD38 Karbür Kabatalaş Freze Dört Ağız Z4



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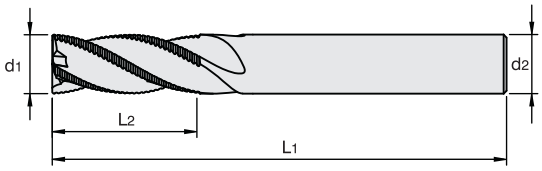
Gen Serisi

Genel İşleme



0.6 µm | 30° | 4 Flutes | HRC ▸55 | MLX | Co %10

Sipariş Kodu	d1	L2	L1	d2
MLD38-100	**6**	15	**50**	6
MLD38-110	**6**	30	**100**	6
MLD38-120	**8**	20	**60**	8
MLD38-130	**8**	40	**100**	8
MLD38-140	**10**	22	**72**	10
MLD38-150	**10**	45	**100**	10
MLD38-160	**12**	26	**83**	12
MLD38-170	**12**	45	**100**	12
MLD38-180	**14**	45	**100**	14
MLD38-190	**16**	45	**100**	16
MLD38-200	**18**	45	**100**	18
MLD38-210	**20**	45	**100**	20

MLD50 Karbür Freze Düz Dört Ağız Z4 65 HRC

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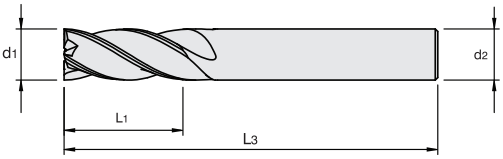
Sert İşleme



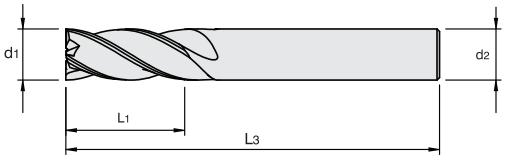


0.6 µm | 35° | 4 Flutes | HRC ▶65 | MLX | Co %12

Sipariş Kodu	d1	L1	L3	d2
MLD50-100	**1**	2	50	4
MLD50-110	**1.5**	3	50	4
MLD50-120	**2**	4	50	4
MLD50-130	**2.5**	5	50	4
MLD50-140	**3**	8	50	4
MLD50-150	**3.5**	10	50	4
MLD50-160	**4**	11	50	4
MLD50-170	**4.5**	13	50	5
MLD50-180	**5**	13	50	5
MLD50-190	**5.5**	13	50	6
MLD50-200	**6**	15	50	6
MLD50-210	**6.5**	15	60	8
MLD50-220	**7**	20	60	8
MLD50-230	**7.5**	20	60	8
MLD50-240	**8**	20	60	8
MLD50-250	**8.5**	20	72	10
MLD50-260	**9**	22	72	10
MLD50-270	**9.5**	22	72	10
MLD50-280	**10**	25	72	10
MLD50-290	**11**	25	83	12
MLD50-300	**12**	26	83	12
MLD50-310	**14**	26	83	14
MLD50-320	**16**	32	92	16
MLD50-330	**18**	32	92	18
MLD50-340	**20**	45	100	20
MLD50-350	**25**	55	110	25

MLD52 Karbür Freze Düz Uzun Dört Ağız Z4 65 HRC





0.6 µm | 35° | 4 Flutes | HRC ▶65 | MLX | Co %12

Sipariş Kodu	d1	L1	L3	d2
MLD52-100	**1**	6	50	4
MLD52-110	**1.5**	9	50	4
MLD52-120	**2**	12	50	4
MLD52-130	**2.5**	12	50	4
MLD52-140	**3**	15	75	4
MLD52-150	**3.5**	15	75	4
MLD52-160	**4**	15	75	4
MLD52-170	**4**	25	100	4
MLD52-180	**5**	20	75	5
MLD52-190	**5**	25	100	5
MLD52-200	**6**	20	75	6
MLD52-210	**6**	30	100	6
MLD52-220	**7**	20	100	8
MLD52-230	**8**	25	100	8
MLD52-240	**8**	50	150	8
MLD52-250	**9**	40	100	10
MLD52-260	**10**	45	100	10
MLD52-270	**10**	65	150	10
MLD52-280	**11**	40	100	12
MLD52-290	**12**	45	100	12
MLD52-300	**12**	65	150	12
MLD52-310	**14**	45	100	14
MLD52-320	**14**	65	150	14
MLD52-330	**16**	45	100	16
MLD52-340	**16**	65	150	16
MLD52-350	**18**	65	150	18
MLD52-360	**20**	75	150	20
MLD52-370	**25**	75	150	25

MLD54 Karbür Freze Küre İki Ağız Z2 65 HRC

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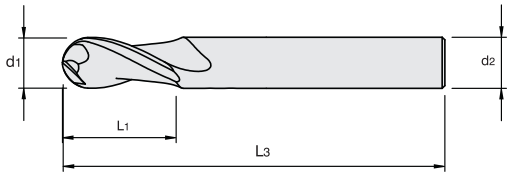
Sert İşleme



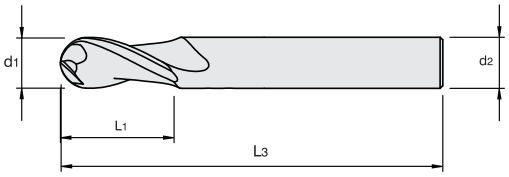


0.6 µm | 35° | 2 Flutes | HRC ▶65 | MLX | Co %12

Sipariş Kodu	d1	L1	L3	d2
MLD54-100	**1**	1.2	50	4
MLD54-110	**1.5**	1.7	50	4
MLD54-120	**2**	2.2	50	4
MLD54-130	**2.5**	2.7	50	4
MLD54-140	**3**	5	50	3
MLD54-150	**3.5**	7	50	4
MLD54-160	**4**	6	50	4
MLD54-170	**5**	7	50	5
MLD54-180	**6**	9	50	6
MLD54-190	**7**	10	60	8
MLD54-200	**8**	10	60	8
MLD54-210	**9**	15	60	10
MLD54-220	**10**	15	72	10
MLD54-230	**12**	17	75	12
MLD54-240	**14**	20	83	14
MLD54-250	**16**	25	92	16
MLD54-260	**18**	25	92	18
MLD54-270	**20**	25	92	20

MLD56 Karbür Freze Uzun Küre İki Ağız Z2 65 HRC





0.6 µm | 35° | 2 Flutes | HRC ▶65 | MLX | Co %12

Sipariş Kodu	d1	L1	L3	d2
MLD56-100	**1**	2	75	4
MLD56-110	**1**	2	100	4
MLD56-120	**1.5**	3	75	4
MLD56-130	**1.5**	3	100	4
MLD56-140	**2**	4	75	4
MLD56-150	**2**	4	100	4
MLD56-160	**2.5**	5	75	4
MLD56-170	**2.5**	5	100	4
MLD56-180	**3**	8	75	3
MLD56-190	**3**	8	100	3
MLD56-200	**4**	9	75	4
MLD56-210	**4**	9	100	4
MLD56-220	**5**	10	75	5
MLD56-230	**5**	10	100	5
MLD56-240	**6**	12	75	6
MLD56-250	**6**	12	100	6
MLD56-260	**6**	16	150	6
MLD56-270	**8**	13	75	8
MLD56-280	**8**	16	100	8
MLD56-290	**8**	18	150	8
MLD56-300	**10**	15	100	10
MLD56-310	**10**	20	150	10
MLD56-320	**10**	24	200	10
MLD56-330	**12**	20	100	12
MLD56-340	**12**	22	150	12
MLD56-350	**12**	22	200	12
MLD56-360	**14**	25	150	14
MLD56-370	**16**	26	150	16
MLD56-380	**16**	32	200	16
MLD56-390	**18**	32	150	18
MLD56-400	**20**	32	150	20

MLD58 Karbür Freze Köşe Radyus Dört Ağız Z4 65 HRC

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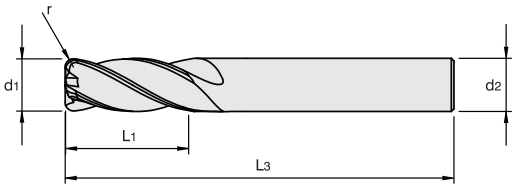
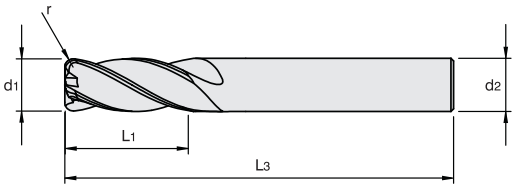


0.6 µm | 35° | 4 Flutes | HRC | MLX | Co %12 | R

Sipariş Kodu	d1	r	L1	L3	d2
MLD58-100	**2**	**0,3**	6	50	3
MLD58-110	**2**	**0,5**	6	50	3
MLD58-120	**3**	**0,3**	8	50	3
MLD58-130	**3**	**0,5**	8	50	3
MLD58-140	**3**	**1**	8	50	3
MLD58-150	**4**	**0,3**	10	50	4
MLD58-160	**4**	**0,5**	10	50	4
MLD58-170	**4**	**1**	10	50	4
MLD58-180	**5**	**0,3**	13	50	5
MLD58-190	**5**	**0,5**	13	50	5
MLD58-200	**5**	**1**	13	50	5
MLD58-210	**6**	**0,3**	15	50	6
MLD58-220	**6**	**0,5**	15	50	6
MLD58-230	**6**	**1**	15	50	6
MLD58-240	**6**	**2**	15	50	6
MLD58-250	**8**	**0,5**	20	60	8
MLD58-260	**8**	**1**	20	60	8
MLD58-270	**8**	**2**	20	60	8
MLD58-280	**10**	**0,5**	25	72	10
MLD58-290	**10**	**1**	25	72	10
MLD58-300	**10**	**2**	25	72	10
MLD58-310	**12**	**0,5**	30	83	12
MLD58-320	**12**	**1**	30	83	12
MLD58-330	**12**	**2**	30	83	12
MLD58-340	**14**	**1**	30	83	14
MLD58-350	**14**	**2**	30	83	14
MLD58-360	**16**	**1**	30	92	16
MLD58-370	**16**	**2**	30	92	16
MLD58-380	**18**	**1**	30	100	18
MLD58-390	**18**	**2**	30	100	18
MLD58-400	**20**	**1**	35	100	20
MLD58-410	**20**	**2**	35	100	20

MLD60 Karbür Freze Uzun Köşe Radyus Dört Ağız Z4 65 HRC





0.6 µm | 35° | 4 Flutes | HRC | MLX | Co %12 | R

Sipariş Kodu	d1	r	L1	L3	d2
MLD60-100	**3**	**0,5**	8	100	3
MLD60-110	**3**	**1**	8	100	3
MLD60-120	**4**	**0,5**	10	75	4
MLD60-130	**4**	**1**	10	75	4
MLD60-140	**4**	**0,5**	10	100	4
MLD60-150	**4**	**1**	10	100	4
MLD60-160	**5**	**0,5**	10	75	5
MLD60-170	**5**	**1**	10	75	5
MLD60-180	**5**	**0,5**	10	100	5
MLD60-190	**5**	**1**	10	100	5
MLD60-200	**6**	**0,5**	15	75	6
MLD60-210	**6**	**1**	15	75	6
MLD60-220	**6**	**0,5**	15	100	6
MLD60-230	**6**	**1**	15	100	6
MLD60-240	**6**	**0,5**	15	150	6
MLD60-250	**6**	**1**	15	150	6
MLD60-260	**8**	**0,5**	18	100	8
MLD60-270	**8**	**1**	18	100	8
MLD60-280	**8**	**0,5**	18	150	8
MLD60-290	**8**	**1**	18	150	8
MLD60-300	**10**	**0,5**	25	100	10
MLD60-310	**10**	**1**	25	100	10
MLD60-320	**10**	**0,5**	25	150	10
MLD60-330	**10**	**1**	25	150	10
MLD60-340	**12**	**0,5**	30	100	12
MLD60-350	**12**	**1**	30	100	12
MLD60-360	**12**	**0,5**	30	150	12
MLD60-370	**12**	**1**	30	150	12
MLD60-380	**16**	**1**	35	150	16
MLD60-390	**16**	**2**	35	150	16
MLD60-400	**20**	**1**	35	150	20
MLD60-410	**20**	**2**	35	150	20

MLD62 Karbür Freze Düz Dalma İki Ağız Z2 / Z4 65 HRC

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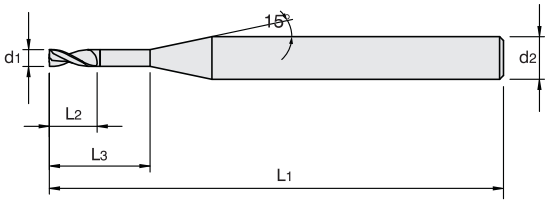
Sert İşleme







Sipariş Kodu	d1	L2	L3	L1	d2	z
MLD62-100	**0,5**	**0,7**	4	50	4	2
MLD62-110	**0,5**	**0,7**	6	50	4	2
MLD62-120	**0,5**	**0,7**	8	50	4	2
MLD62-130	**0,5**	**0,7**	10	50	4	2
MLD62-140	**1**	**1,2**	4	50	4	2
MLD62-150	**1**	**1,2**	6	50	4	2
MLD62-160	**1**	**1,2**	8	50	4	2
MLD62-170	**1**	**1,2**	10	50	4	2
MLD62-180	**1**	**1,2**	12	50	4	2
MLD62-190	**1**	**1,2**	14	50	4	2
MLD62-200	**1**	**1,2**	16	50	4	2
MLD62-210	**1**	**1,2**	20	50	4	2
MLD62-220	**1,5**	**1,7**	4	50	4	2
MLD62-230	**1,5**	**1,7**	6	50	4	2
MLD62-240	**1,5**	**1,7**	8	50	4	2
MLD62-250	**1,5**	**1,7**	10	50	4	2
MLD62-260	**1,5**	**1,7**	12	50	4	2
MLD62-270	**1,5**	**1,7**	14	50	4	2
MLD62-280	**1,5**	**1,7**	16	50	4	2
MLD62-290	**1,5**	**1,7**	20	50	4	2
MLD62-300	**2**	**2,2**	6	50	4	2
MLD62-310	**2**	**2,2**	8	50	4	2
MLD62-320	**2**	**2,2**	10	50	4	2
MLD62-330	**2**	**2,2**	12	50	4	2
MLD62-340	**2**	**2,2**	14	50	4	2
MLD62-350	**2**	**2,2**	16	50	4	2
MLD62-360	**2**	**2,2**	20	50	4	2

Sipariş Kodu	d1	L2	L3	L1	d2	z
MLD62-370	**2,5**	**2,7**	6	50	4	2
MLD62-380	**2,5**	**2,7**	8	50	4	2
MLD62-390	**2,5**	**2,7**	10	50	4	2
MLD62-400	**2,5**	**2,7**	12	50	4	2
MLD62-410	**2,5**	**2,7**	14	50	4	2
MLD62-420	**2,5**	**2,7**	16	50	4	2
MLD62-430	**2,5**	**2,7**	20	50	4	2
MLD62-440	**2,5**	**2,7**	25	75	4	2
MLD62-450	**3**	**4**	10	50	6	4
MLD62-460	**3**	**4**	12	50	6	4
MLD62-470	**3**	**4**	14	50	6	4
MLD62-480	**3**	**4**	16	50	6	4
MLD62-490	**3**	**4**	20	50	6	4
MLD62-500	**3**	**4**	25	75	6	4
MLD62-510	**3**	**4**	30	75	6	4
MLD62-520	**3**	**4**	35	75	6	4
MLD62-530	**4**	**5**	10	50	6	4
MLD62-540	**4**	**5**	12	50	6	4
MLD62-550	**4**	**5**	14	50	6	4
MLD62-560	**4**	**5**	16	50	6	4
MLD62-570	**4**	**5**	20	50	6	4
MLD62-580	**4**	**5**	25	75	6	4
MLD62-590	**4**	**5**	30	75	6	4
MLD62-600	**4**	**5**	35	75	6	4

MLD64 Karbür Freze Küre Dalma İki Ağız Z2 65 HRC

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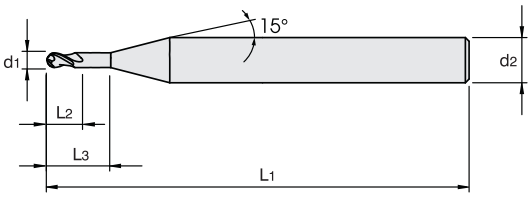

0.2 µm | 35° | 4 Flutes | 2 Flutes | HRC ▶65 | MLX | Co %12

Sipariş Kodu	d1	L2	L3	L1	d2	z
MLD64-100	1	1,2	4	50	4	2
MLD64-110	1	1,2	6	50	4	2
MLD64-120	1	1,2	8	50	4	2
MLD64-130	1	1,2	10	50	4	2
MLD64-140	1	1,2	12	50	4	2
MLD64-150	1	1,2	14	50	4	2
MLD64-160	1	1,2	16	50	4	2
MLD64-170	1	1,2	20	50	4	2
MLD64-180	1,5	1,7	4	50	4	2
MLD64-190	1,5	1,7	6	50	4	2
MLD64-200	1,5	1,7	8	50	4	2
MLD64-210	1,5	1,7	10	50	4	2
MLD64-220	1,5	1,7	12	50	4	2
MLD64-230	1,5	1,7	14	50	4	2
MLD64-240	1,5	1,7	16	50	4	2
MLD64-250	1,5	1,7	20	50	4	2
MLD64-260	2	2,2	6	50	4	2
MLD64-270	2	2,2	8	50	4	2
MLD64-280	2	2,2	10	50	4	2
MLD64-290	2	2,2	12	50	4	2
MLD64-300	2	2,2	14	50	4	2
MLD64-310	2	2,2	16	50	4	2
MLD64-320	2	2,2	20	50	4	2

Sipariş Kodu	d1	L2	L3	L1	d2	z
MLD64-330	2,5	2,7	6	50	4	2
MLD64-340	2,5	2,7	8	50	4	2
MLD64-350	2,5	2,7	10	50	4	2
MLD64-360	2,5	2,7	12	50	4	2
MLD64-370	2,5	2,7	14	50	4	2
MLD64-380	2,5	2,7	16	50	4	2
MLD64-390	2,5	2,7	20	50	4	2
MLD64-400	2,5	2,7	25	75	4	2
MLD64-410	3	4	10	50	6	2
MLD64-420	3	4	12	50	6	2
MLD64-430	3	4	14	50	6	2
MLD64-440	3	4	16	50	6	2
MLD64-450	3	4	20	50	6	2
MLD64-460	3	4	25	75	6	2
MLD64-470	3	4	30	75	6	2
MLD64-480	3	4	35	75	6	2
MLD64-490	4	5	10	50	6	2
MLD64-500	4	5	12	50	6	2
MLD64-510	4	5	14	50	6	2
MLD64-520	4	5	16	50	6	2
MLD64-530	4	5	20	50	6	2
MLD64-540	4	5	25	75	6	2
MLD64-550	4	5	30	75	6	2
MLD64-560	4	5	35	75	6	2

MLD66 Köşe Radyus Dalma Freze İki Ağız Z2 / Z4 65 HRC

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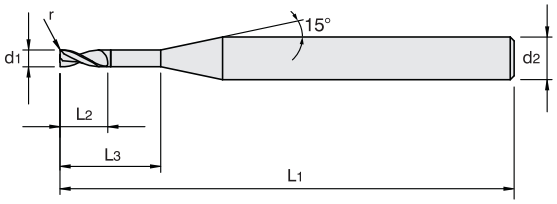
Z2



Z4





Sipariş Kodu	d1	L2	L3	L1	d2	z	r
MLD66-100	1	1,2	4	50	4	2	0,2
MLD66-110	1	1,2	6	50	4	2	0,2
MLD66-120	1	1,2	8	50	4	2	0,2
MLD66-130	1	1,2	10	50	4	2	0,2
MLD66-140	1	1,2	12	50	4	2	0,2
MLD66-150	1	1,2	14	50	4	2	0,2
MLD66-160	1	1,2	16	50	4	2	0,2
MLD66-170	1	1,2	20	50	4	2	0,2
MLD66-180	1,5	1,7	4	50	4	2	0,2
MLD66-190	1,5	1,7	6	50	4	2	0,2
MLD66-200	1,5	1,7	8	50	4	2	0,2
MLD66-210	1,5	1,7	10	50	4	2	0,2
MLD66-220	1,5	1,7	12	50	4	2	0,2
MLD66-230	1,5	1,7	14	50	4	2	0,2
MLD66-240	1,5	1,7	16	50	4	2	0,2
MLD66-250	1,5	1,7	20	50	4	2	0,2
MLD66-260	1,5	1,7	4	50	4	2	0,5
MLD66-270	1,5	1,7	6	50	4	2	0,5
MLD66-280	1,5	1,7	8	50	4	2	0,5
MLD66-290	1,5	1,7	10	50	4	2	0,5
MLD66-300	1,5	1,7	12	50	4	2	0,5
MLD66-310	1,5	1,7	14	50	4	2	0,5
MLD66-320	1,5	1,7	16	50	4	2	0,5
MLD66-330	1,5	1,7	20	50	4	2	0,5
MLD66-340	2	2,2	6	50	4	2	0,2
MLD66-350	2	2,2	8	50	4	2	0,2
MLD66-360	2	2,2	10	50	4	2	0,2
MLD66-370	2	2,2	12	50	4	2	0,2
MLD66-380	2	2,2	14	50	4	2	0,2
MLD66-390	2	2,2	16	50	4	2	0,2
MLD66-400	2	2,2	20	50	4	2	0,2
MLD66-410	2	2,2	6	50	4	2	0,5
MLD66-420	2	2,2	8	50	4	2	0,5
MLD66-430	2	2,2	10	50	4	2	0,5
MLD66-440	2	2,2	12	50	4	2	0,5
MLD66-450	2	2,2	14	50	4	2	0,5
MLD66-460	2	2,2	16	50	4	2	0,5
MLD66-470	2	2,2	20	50	4	2	0,5
MLD66-480	2,5	2,7	6	50	4	2	0,2
MLD66-490	2,5	2,7	8	50	4	2	0,2
MLD66-500	2,5	2,7	10	50	4	2	0,2
MLD66-510	2,5	2,7	12	50	4	2	0,2
MLD66-520	2,5	2,7	14	50	4	2	0,2

Sipariş Kodu	d1	L2	L3	L1	d2	z	r
MLD66-530	2,5	2,7	16	50	4	2	0,2
MLD66-540	2,5	2,7	20	50	4	2	0,2
MLD66-550	2,5	2,7	25	50	4	2	0,2
MLD66-560	2,5	2,7	6	50	4	2	0,5
MLD66-570	2,5	2,7	8	50	4	2	0,5
MLD66-580	2,5	2,7	10	50	4	2	0,5
MLD66-590	2,5	2,7	12	50	4	2	0,5
MLD66-600	2,5	2,7	14	50	4	2	0,5
MLD66-610	2,5	2,7	16	50	4	2	0,5
MLD66-620	2,5	2,7	20	50	4	2	0,5
MLD66-630	2,5	2,7	25	75	4	2	0,5
MLD66-640	3	3,2	10	50	6	2	0,2
MLD66-650	3	3,2	12	50	6	4	0,2
MLD66-660	3	3,2	14	50	6	4	0,2
MLD66-670	3	3,2	16	50	6	4	0,2
MLD66-680	3	3,2	20	50	6	4	0,2
MLD66-690	3	3,2	25	75	6	4	0,2
MLD66-700	3	3,2	30	75	6	4	0,2
MLD66-710	3	3,2	35	75	6	4	0,2
MLD66-720	3	3,2	10	50	6	4	0,5
MLD66-730	3	3,2	12	50	6	4	0,5
MLD66-740	3	3,2	14	50	6	4	0,5
MLD66-750	3	3,2	16	50	6	4	0,5
MLD66-760	3	3,2	20	50	6	4	0,5
MLD66-770	3	3,2	25	75	6	4	0,5
MLD66-780	3	3,2	30	75	6	4	0,5
MLD66-790	3	3,2	35	75	6	4	0,3
MLD66-800	4	4,2	10	50	6	4	0,3
MLD66-810	4	4,2	12	50	6	4	0,3
MLD66-820	4	4,2	14	50	6	4	0,3
MLD66-830	4	4,2	16	50	6	4	0,3
MLD66-840	4	4,2	20	50	6	4	0,3
MLD66-850	4	4,2	25	75	6	4	0,3
MLD66-860	4	4,2	30	75	6	4	0,3
MLD66-870	4	4,2	35	75	6	4	0,3
MLD66-880	4	4,2	10	50	6	4	0,5
MLD66-890	4	4,2	12	50	6	4	0,5
MLD66-900	4	4,2	14	50	6	4	0,5
MLD66-910	4	4,2	16	50	6	4	0,5
MLD66-920	4	4,2	20	50	6	4	0,5
MLD66-930	4	4,2	25	75	6	4	0,5
MLD66-940	4	4,2	30	75	6	4	0,5
MLD66-950	4	4,2	35	75	6	4	0,5

MLD68 Köşe Radyus Boğazlı Finiş Freze Altı Ağız Z6 65 HRC



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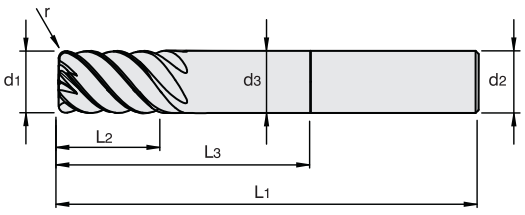
Sert İşleme





Sipariş Kodu	d1	L2	L3	L1	d2	z	r	d3
MLD68-100	**6**	8	25	50	6	6	0,3	5,8
MLD68-110	**6**	8	40	75	6	6	0,3	5,8
MLD68-120	**8**	10	30	60	8	6	0,3	7,7
MLD68-130	**8**	10	65	100	8	6	0,3	7,7
MLD68-140	**10**	12	35	72	10	6	0,5	9,5
MLD68-150	**10**	12	65	100	10	6	0,5	9,5
MLD68-160	**12**	16	35	83	12	6	0,5	11,5
MLD68-170	**12**	16	65	100	12	6	0,5	11,5
MLD68-180	**16**	24	40	100	16	6	1	15,5
MLD66-190	**16**	24	90	150	16	6	1	15,5

MLD70 Karbür Kabatalaş Freze Dört Ağız Z4 65 HRC



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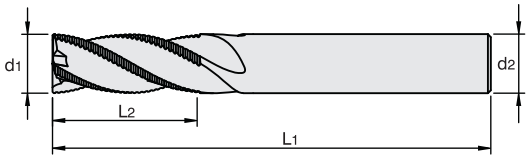
Solid Serisi

Sert İşleme





Sipariş Kodu	d1	L2	L1	d2
MLD70-100	**6**	15	**50**	6
MLD70-110	**6**	30	**100**	6
MLD70-120	**8**	20	**60**	8
MLD70-130	**8**	40	**100**	8
MLD70-140	**10**	22	**72**	10
MLD70-150	**10**	45	**100**	10
MLD70-160	**12**	26	**83**	12
MLD70-170	**12**	45	**100**	12
MLD70-180	**14**	45	**100**	14
MLD70-190	**16**	45	**100**	16
MLD70-200	**18**	45	**100**	18
MLD70-210	**20**	45	**100**	20

MLD80 Düz Freze Alüminyum İki Ağız Z2

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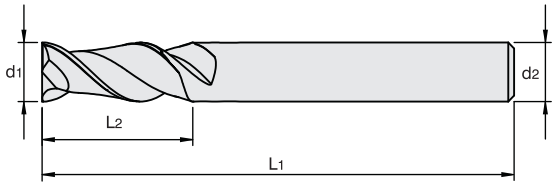
Sotf Serisi

Demir Dışı İşleme





0.4 µm | 45° | 2 Flutes | MLX | Co %10

Sipariş Kodu	d1	L2	L1	d2	z
MLD80-100	**1**	2	**50**	6	2
MLD80-110	**1,5**	3	**50**	6	2
MLD80-120	**2**	4	**50**	6	2
MLD80-130	**2,5**	5	**50**	6	2
MLD80-140	**3**	8	**50**	3	2
MLD80-150	**3**	8	**50**	6	2
MLD80-160	**3**	25	**100**	3	2
MLD80-170	**4**	11	**50**	4	2
MLD80-180	**4**	11	**50**	6	2
MLD80-190	**4**	25	**100**	4	2
MLD80-200	**5**	13	**50**	5	2
MLD80-210	**5**	13	**50**	6	2
MLD80-220	**5**	25	**100**	5	2
MLD80-230	**6**	15	**50**	6	2
MLD80-240	**6**	30	**100**	6	2
MLD80-250	**6**	50	**150**	6	2
MLD80-260	**8**	20	**60**	8	2
MLD80-270	**8**	40	**100**	8	2
MLD80-280	**8**	50	**150**	8	2
MLD80-290	**10**	22	**72**	10	2
MLD80-300	**10**	45	**100**	10	2
MLD80-310	**10**	65	**150**	10	2
MLD80-320	**12**	26	**83**	12	2
MLD80-330	**12**	45	**100**	12	2
MLD80-340	**12**	65	**150**	12	2
MLD80-350	**14**	26	**83**	14	2
MLD80-360	**14**	65	**150**	14	2
MLD80-370	**16**	32	**92**	16	2
MLD80-380	**16**	75	**150**	16	2
MLD80-390	**18**	32	**92**	18	2
MLD80-400	**18**	75	**150**	18	2
MLD80-410	**20**	45	**100**	20	2
MLD80-420	**20**	75	**150**	20	2

MLD82 Küre Boğazlı Freze Alüminyum Z2

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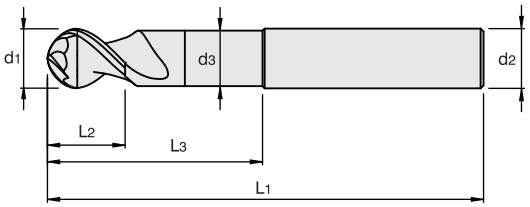
Sotf Serisi

Demir Dışı İşleme







Sipariş Kodu	d1	L2	L1	d2	z	L3	d3
MLD82-100	**1**	2	**50**	6	2	5	0,90
MLD82-110	**1,5**	2,5	**50**	6	2	5	1,40
MLD82-120	**2**	3	**50**	6	2	5	1,90
MLD82-130	**2,5**	4	**50**	6	2	6	2,40
MLD82-140	**3**	5	**50**	3	2	8	2,85
MLD82-150	**3**	5	**50**	6	2	6,5	2,85
MLD82-160	**4**	6	**50**	4	2	9	3,80
MLD82-170	**4**	6	**50**	6	2	9	3,80
MLD82-180	**4**	9	**75**	4	2	18	3,80
MLD82-190	**5**	7	**50**	5	2	10	4,80
MLD82-200	**5**	7	**50**	6	2	8	4,80
MLD82-210	**6**	8	**50**	6	2	12	5,80
MLD82-220	**6**	11	**75**	6	2	22	5,80
MLD82-230	**6**	16	**100**	6	2	32	5,80
MLD82-240	**8**	12	**60**	8	2	25	7,70
MLD82-250	**8**	13	**100**	8	2	26	7,70
MLD82-260	**8**	18	**150**	8	2	54	7,70
MLD82-270	**10**	15	**72**	10	2	30	9,50
MLD82-280	**10**	15	**100**	10	2	30	9,50
MLD82-290	**10**	20	**150**	10	2	60	9,50
MLD82-300	**12**	17	**83**	12	2	36	11,50
MLD82-310	**12**	17	**100**	12	2	34	11,50
MLD82-320	**12**	22	**150**	12	2	66	11,50
MLD82-330	**14**	19	**83**	14	2	38	13,50
MLD82-340	**14**	24	**150**	14	2	72	13,50
MLD82-350	**16**	21	**92**	16	2	42	15,50
MLD82-360	**16**	26	**150**	16	2	78	15,50
MLD82-370	**18**	23	**92**	18	2	46	17,50
MLD82-380	**18**	28	**150**	18	2	84	17,50
MLD82-390	**20**	25	**100**	20	2	50	19,50
MLD82-400	**20**	30	**150**	20	2	90	19,50

MLD84 Düz Freze Alüminyum Z3

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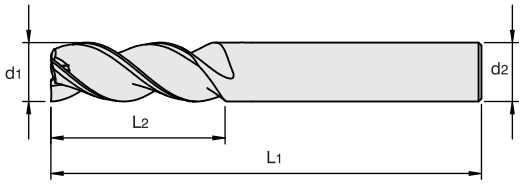
Demir Dışı İşleme





0.4 µm | 45° | 3 Flutes | MLX | Co %10

Sipariş Kodu	d1	L2	L1	d2	z	pah
MLD84-100	**2**	2	**50**	6	3	0,06
MLD84-110	**2,5**	2,5	**50**	6	3	0,08
MLD84-120	**3**	3	**50**	3	3	0,09
MLD84-130	**3**	4	**50**	6	3	0,09
MLD84-140	**3**	5	**50**	3	3	0,09
MLD84-150	**4**	5	**50**	4	3	0,12
MLD84-160	**4**	6	**50**	6	3	0,12
MLD84-170	**4**	6	**50**	4	3	0,12
MLD84-180	**5**	9	**75**	5	3	0,15
MLD84-190	**5**	7	**50**	6	3	0,15
MLD84-200	**5**	7	**50**	5	3	0,15
MLD84-210	**6**	8	**50**	6	3	0,18
MLD84-220	**6**	11	**75**	6	3	0,18
MLD84-230	**6**	16	**100**	6	3	0,18
MLD84-240	**8**	12	**60**	8	3	0,24
MLD84-250	**8**	13	**100**	8	3	0,24
MLD84-260	**8**	18	**150**	8	3	0,24
MLD84-270	**10**	15	**72**	10	3	0,30
MLD84-280	**10**	15	**100**	10	3	0,30
MLD84-290	**10**	20	**150**	10	3	0,30
MLD84-300	**12**	17	**83**	12	3	0,36
MLD84-310	**12**	17	**100**	12	3	0,36
MLD84-320	**12**	22	**150**	12	3	0,36
MLD84-330	**14**	19	**83**	14	3	0,42
MLD84-340	**14**	24	**150**	14	3	0,42
MLD84-350	**16**	21	**92**	16	3	0,48
MLD84-360	**16**	26	**150**	16	3	0,48
MLD84-370	**18**	23	**92**	18	3	0,54
MLD84-380	**18**	28	**150**	18	3	0,54
MLD84-390	**20**	25	**100**	20	3	0,60
MLD84-400	**20**	30	**150**	20	3	0,60

MLD86 Köşe Radyus Freze Alüminyum Z3



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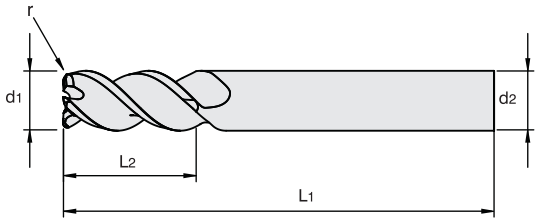
Demir Dışı İşleme



0.4 µm | 45° | 3 Flutes | MLX | Co %10 | R

Sipariş Kodu	d1	L2	L1	d2	z	r
MLD86-100	**2**	4	**50**	6	3	0,5
MLD86-110	**2,5**	5	**50**	6	3	0,5
MLD86-120	**3**	8	**50**	3	3	0,5
MLD86-130	**3**	8	**50**	6	3	0,5
MLD86-140	**3**	8	**50**	3	3	1,0
MLD86-150	**3**	8	**50**	6	3	1,0
MLD86-160	**4**	11	**50**	4	3	0,5
MLD86-170	**4**	11	**50**	6	3	0,5
MLD86-180	**4**	11	**50**	4	3	1,0
MLD86-190	**4**	11	**50**	6	3	1,0
MLD86-200	**4**	25	**100**	4	3	0,5
MLD86-210	**4**	25	**100**	4	3	1,0
MLD86-220	**5**	13	**50**	5	3	0,5
MLD86-230	**5**	13	**50**	6	3	0,5
MLD86-240	**5**	13	**50**	5	3	1,0
MLD86-250	**5**	13	**50**	6	3	1,0
MLD86-260	**5**	25	**100**	5	3	0,5
MLD86-270	**5**	25	**100**	5	3	1,0
MLD86-280	**6**	15	**50**	6	3	0,5
MLD86-290	**6**	15	**50**	6	3	1,0
MLD86-300	**6**	30	**100**	6	3	0,5
MLD86-310	**6**	30	**100**	6	3	1,0
MLD86-320	**6**	50	**150**	6	3	0,5
MLD86-330	**6**	50	**150**	6	3	1,0
MLD86-340	**8**	20	**60**	8	3	0,5
MLD86-350	**8**	20	**60**	8	3	1,0
MLD86-360	**8**	40	**100**	8	3	0,5
MLD86-370	**8**	40	**100**	8	3	1,0
MLD86-380	**8**	50	**150**	8	3	0,5
MLD86-390	**8**	50	**150**	8	3	1,0
MLD86-400	**10**	22	**72**	10	3	0,5
MLD86-410	**10**	22	**72**	10	3	1,0
MLD86-420	**10**	22	**72**	10	3	2,0

Sipariş Kodu	d1	L2	L1	d2	z	r
MLD86-430	**10**	45	**100**	10	3	0,5
MLD86-440	**10**	45	**100**	10	3	1,0
MLD86-450	**10**	45	**100**	10	3	2,0
MLD86-460	**10**	65	**150**	10	3	0,5
MLD86-470	**10**	65	**150**	10	3	1,0
MLD86-480	**10**	65	**150**	10	3	2,0
MLD86-490	**12**	26	**83**	12	3	0,5
MLD86-500	**12**	26	**83**	12	3	1,0
MLD86-510	**12**	26	**83**	12	3	2,0
MLD86-520	**12**	45	**100**	12	3	0,5
MLD86-530	**12**	45	**100**	12	3	1,0
MLD86-540	**12**	45	**100**	12	3	2,0
MLD86-550	**12**	65	**150**	12	3	0,5
MLD86-560	**12**	65	**150**	12	3	1,0
MLD86-570	**12**	65	**150**	12	3	2,0
MLD86-580	**14**	26	**83**	14	3	1,0
MLD86-590	**14**	26	**83**	14	3	2,0
MLD86-600	**14**	45	**100**	14	3	1,0
MLD86-610	**14**	45	**100**	14	3	2,0
MLD86-620	**14**	65	**150**	14	3	1,0
MLD86-630	**14**	65	**150**	14	3	2,0
MLD86-640	**16**	32	**92**	16	3	1,0
MLD86-650	**16**	32	**92**	16	3	2,0
MLD86-660	**16**	50	**150**	16	3	1,0
MLD86-670	**16**	50	**150**	16	3	2,0
MLD86-680	**18**	32	**92**	18	3	1,0
MLD86-690	**18**	32	**92**	18	3	2,0
MLD86-700	**18**	75	**150**	18	3	1,0
MLD86-710	**18**	75	**150**	18	3	2,0
MLD86-720	**20**	45	**100**	20	3	1,0
MLD86-730	**20**	45	**100**	20	3	2,0
MLD86-740	**20**	75	**150**	20	3	1,0
MLD86-750	**20**	75	**150**	20	3	2,0

MLD88 Tek Ağızlı Alüminyum Freze Z1 Polisajlı

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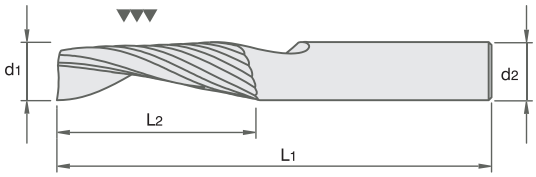
Demir Dışı İşleme





0.4 µm | 30° | 1 Flutes | MLX | Co %10 | ▼▼▼ Polisaj

Sipariş Kodu	d1	L2	L1	d1h5	z
MLD88-100	**1,5**	8	**50**	6	1
MLD88-110	**2**	8	**50**	6	1
MLD88-120	**3**	12	**50**	3	1
MLD88-130	**3**	12	**50**	6	1
MLD88-140	**3**	18	**50**	3	1
MLD88-150	**4**	15	**50**	4	1
MLD88-160	**4**	15	**50**	6	1
MLD88-170	**4**	20	**50**	4	1
MLD88-180	**5**	20	**50**	5	1
MLD88-190	**5**	20	**50**	6	1
MLD88-200	**5**	25	**60**	5	1
MLD88-210	**6**	22	**60**	6	1
MLD88-220	**6**	30	**80**	6	1
MLD88-230	**6**	40	**80**	6	1
MLD88-240	**8**	30	**80**	8	1
MLD88-250	**10**	32	**80**	10	1
MLD88-260	**12**	32	**83**	12	1

MLD90 Düz Freze Alüminyum Z3 Polisajlı

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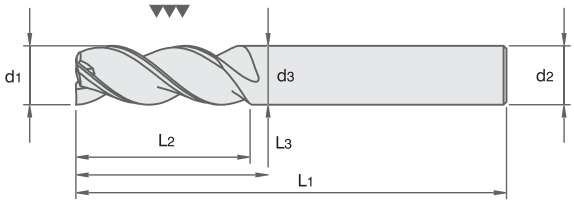
Sotf Serisi

Demir Dışı İşleme







Sipariş Kodu	d1	L2	L1	d2h5	z	L3	d3
MLD90-100	**3**	8	**50**	6	3	-	-
MLD90-110	**4**	11	**50**	6	3	-	-
MLD90-120	**5**	13	**50**	6	3	-	-
MLD90-130	**6**	15	**50**	6	3	-	-
MLD90-140	**6**	30	**100**	6	3	-	-
MLD90-150	**8**	20	**60**	8	3	-	-
MLD90-160	**8**	35	**100**	8	3	-	-
MLD90-170	**8**	35	**150**	8	3	65	7,70
MLD90-180	**10**	22	**72**	10	3	-	-
MLD90-190	**10**	45	**100**	10	3	-	-
MLD90-200	**10**	45	**150**	10	3	65	9,50
MLD90-210	**12**	26	**83**	12	3	-	-
MLD90-220	**12**	45	**100**	12	3	-	-
MLD90-230	**12**	45	**150**	12	3	65	11,50
MLD90-240	**14**	26	**83**	14	3	-	-
MLD90-250	**14**	45	**150**	14	3	65	13,50
MLD90-260	**16**	32	**92**	16	3	-	-
MLD90-270	**16**	45	**150**	16	3	75	15,50
MLD90-280	**20**	45	**100**	20	3	-	-
MLD90-290	**20**	45	**150**	20	3	75	19,50

MLD92 Küre Freze Alüminyum Z2 Polisajlı

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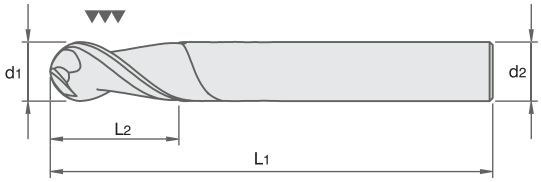
Sotf Serisi

Demir Dışı İşleme







Sipariş Kodu Standart	Sipariş Kodu Polisajlı	d1	L2	L1	d2h5	z
MLD92-100	MLD92P-100	**6**	8	**50**	6	2
MLD92-110	MLD92P-110	**6**	11	**100**	6	2
MLD92-120	MLD92P-120	**8**	10	**60**	8	2
MLD92-130	MLD92P-130	**8**	13	**100**	8	2
MLD92-140	MLD92P-140	**8**	15	**150**	8	2
MLD92-150	MLD92P-150	**10**	15	**72**	10	2
MLD92-160	MLD92P-160	**10**	20	**100**	10	2
MLD92-170	MLD92P-170	**10**	25	**150**	10	2
MLD92-180	MLD92P-180	**12**	17	**83**	12	2
MLD92-190	MLD92P-190	**12**	17	**100**	12	2
MLD92-200	MLD92P-200	**12**	22	**150**	12	2
MLD92-210	MLD92P-210	**14**	19	**83**	14	2
MLD92-220	MLD92P-220	**14**	24	**150**	14	2
MLD92-230	MLD92P-230	**16**	21	**92**	16	2
MLD92-240	MLD92P-240	**16**	26	**150**	16	2
MLD92-250	MLD92P-250	**20**	25	**100**	20	2
MLD92-260	MLD92P-260	**20**	30	**150**	20	2

MLD94 Köşe Radyus Alüminyum Freze Z3 Polisajlı

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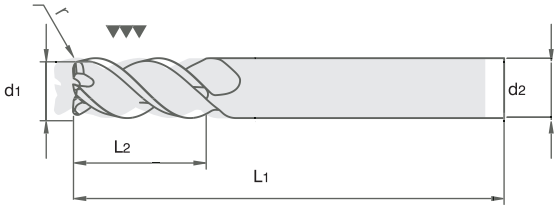
Sotf Serisi

Demir Dışı İşleme







Sipariş Kodu Standart	Sipariş Kodu Polisajlı	d1	L2	L1	d2h5	z	r
MLD94-100	MLD94P-100	**6**	15	**50**	6	3	0,5
MLD94-110	MLD94P-110	**6**	15	**50**	6	3	1,0
MLD94-120	MLD94P-120	**6**	30	**100**	6	3	0,5
MLD94-130	MLD94P-130	**6**	30	**100**	6	3	1,0
MLD94-140	MLD94P-140	**8**	20	**60**	8	3	0,5
MLD94-150	MLD94P-150	**8**	20	**60**	8	3	1,0
MLD94-160	MLD94P-160	**8**	40	**100**	8	3	0,5
MLD94-170	MLD94P-170	**8**	40	**100**	8	3	1,0
MLD94-180	MLD94P-180	**10**	22	**72**	10	3	0,5
MLD94-190	MLD94P-190	**10**	22	**72**	10	3	1,0
MLD94-200	MLD94P-200	**10**	22	**72**	10	3	2,0
MLD94-210	MLD94P-210	**10**	45	**100**	10	3	1,0
MLD94-220	MLD94P-220	**10**	45	**100**	10	3	2,0
MLD94-230	MLD94P-230	**10**	75	**150**	10	3	1,0
MLD94-240	MLD94P-240	**10**	75	**150**	10	3	2,0
MLD94-250	MLD94P-250	**12**	26	**83**	12	3	0,5
MLD94-260	MLD94P-260	**12**	26	**83**	12	3	1,0
MLD94-270	MLD94P-270	**12**	26	**83**	12	3	2,0
MLD94-280	MLD94P-280	**12**	45	**100**	12	3	1,0
MLD94-290	MLD94P-290	**12**	45	**100**	12	3	2,0
MLD94-300	MLD94P-300	**12**	75	**150**	12	3	1,0
MLD94-310	MLD94P-310	**12**	75	**150**	12	3	2,0
MLD94-320	MLD94P-320	**14**	26	**83**	14	3	1,0
MLD94-330	MLD94P-330	**14**	26	**83**	14	3	2,0
MLD94-340	MLD94P-340	**16**	32	**92**	16	3	1,0
MLD94-350	MLD94P-350	**16**	32	**92**	16	3	2,0
MLD94-360	MLD94P-360	**16**	75	**150**	16	3	1,0
MLD94-370	MLD94P-370	**16**	75	**150**	16	3	2,0
MLD94-380	MLD94P-380	**20**	45	**100**	20	3	1,0
MLD94-390	MLD94P-390	**20**	45	**100**	20	3	2,0
MLD94-400	MLD94P-400	**20**	45	**100**	20	3	4,0
MLD94-410	MLD94P-410	**20**	75	**150**	20	3	1,0
MLD94-420	MLD94P-420	**20**	75	**150**	20	3	2,0
MLD94-430	MLD94P-430	**20**	75	**150**	20	3	4,0

MLD96 Köşe Radyus Boğazlı Aluminyum Freze Z3 Polisajlı

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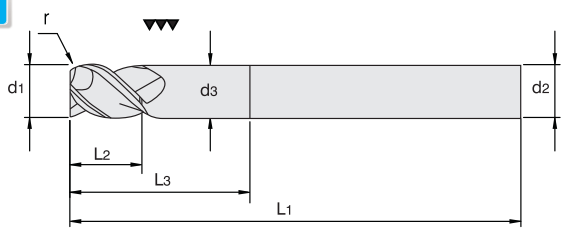
Sotf Serisi

Demir Dışı İşleme







Sipariş Kodu Standart	Sipariş Kodu Polisajlı	d1	L2	L1	d2h5	z	r	L3	d3
MLD96-100	MLD96P-100	**6**	10	**75**	6	3	0,2	25	5,8
MLD96-110	MLD96P-110	**6**	10	**75**	6	3	1,0	25	5,8
MLD96-120	MLD96P-120	**8**	12	**100**	8	3	0,2	30	7,7
MLD96-130	MLD96P-130	**8**	12	**100**	8	3	1,0	30	7,7
MLD96-140	MLD96P-140	**10**	14	**100**	10	3	0,2	35	9,5
MLD96-150	MLD96P-150	**10**	14	**100**	10	3	1,0	35	9,5
MLD96-160	MLD96P-160	**10**	14	**100**	10	3	2,0	35	9,5
MLD96-170	MLD96P-170	**12**	16	**100**	12	3	0,3	40	11,5
MLD96-180	MLD96P-180	**12**	16	**100**	12	3	1,0	40	11,5
MLD96-190	MLD96P-190	**12**	16	**100**	12	3	2,0	40	11,5
MLD96-200	MLD96P-200	**16**	20	**125**	16	3	0,3	50	15,5
MLD96-210	MLD96P-210	**16**	20	**125**	16	3	1,0	50	15,5
MLD96-220	MLD96P-220	**16**	20	**125**	16	3	2,5	50	15,5
MLD96-230	MLD96P-230	**20**	25	**150**	20	3	0,3	65	19,5
MLD96-240	MLD96P-240	**20**	25	**150**	20	3	2,0	65	19,5
MLD96-250	MLD96P-250	**20**	25	**150**	20	3	4,0	65	19,5

MLD98 MoldPlus Değişken Helisli Düz Freze Z4

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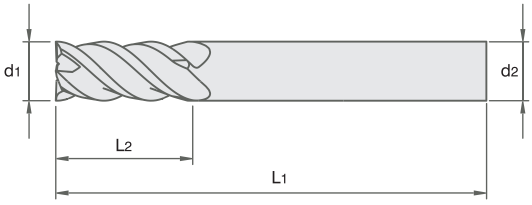
Pro Serisi

Performans İşleme





0.2 µm | 35° 38° | 4 Flutes | HRC ▶55 | MLX | Co %12

A B

Sipariş Kodu A Tip	Sipariş Kodu B Tip	d1	L2	L1	d2h5	z	pah
MLD98-100	MLD98B-100	**3**	8	**57**	6	4	0,08
MLD98-110	MLD98B-110	**4**	11	**57**	6	4	0,10
MLD98-120	MLD98B-120	**5**	13	**57**	6	4	0,13
MLD98-130	MLD98B-130	**6**	13	**57**	6	4	0,15
MLD98-140	MLD98B-140	**8**	19	**63**	8	4	0,20
MLD98-150	MLD98B-150	**10**	22	**72**	10	4	0,25
MLD98-160	MLD98B-160	**12**	26	**83**	12	4	0,30
MLD98-170	MLD98B-170	**14**	26	**83**	14	4	0,35
MLD98-180	MLD98B-180	**16**	32	**92**	16	4	0,40
MLD98-190	MLD98B-190	**18**	32	**92**	18	4	0,45
MLD98-200	MLD98B-200	**20**	38	**100**	20	4	0,50

MoldPlus serisi, değişken helis açısı ve özel alın geometrisi ile yüksek talaş kaldırma performansına sahipdir.

MLD100 MoldPlus Köşe Radyus Freze Değişken Helisli Z4

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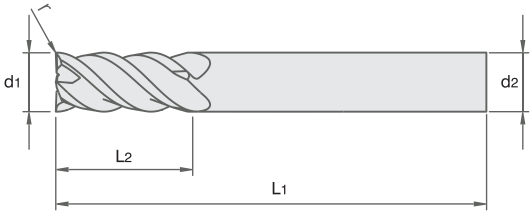
Pro Serisi

Performans İşleme





0.2 µm | 35° 38° | 4 Flutes | HRC ▶55 | MLX | Co %12 | R

A B

Sipariş Kodu A Tip	Sipariş Kodu B Tip	d1	L2	L1	d2h5	z	pah
MLD100-100	MLD100B-100	**3**	8	**57**	6	4	0,3
MLD100-110	MLD100B-110	**4**	11	**57**	6	4	0,3
MLD100-120	MLD100B-120	**5**	13	**57**	6	4	0,3
MLD100-130	MLD100B-130	**6**	13	**57**	6	4	0,5
MLD100-140	MLD100B-140	**8**	19	**63**	8	4	0,5
MLD100-150	MLD100B-150	**10**	22	**72**	10	4	1,0
MLD100-160	MLD100B-160	**12**	26	**83**	12	4	1,0
MLD100-170	MLD100B-170	**14**	26	**83**	14	4	2,0
MLD100-180	MLD100B-180	**16**	32	**92**	16	4	2,0
MLD100-190	MLD100B-190	**18**	32	**92**	18	4	2,0
MLD100-200	MLD100B-200	**20**	38	**100**	20	4	2,0

MoldPlus serisi, değişken helis açısı ve özel alın geometrisi ile yüksek talaş kaldırma performansına sahipdir.

MLD106 MoldPlus Değişken Helisli Düz Freze Z5

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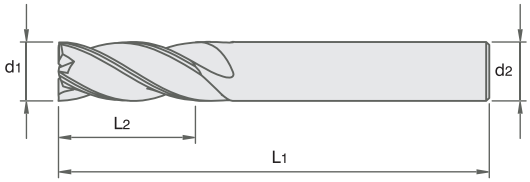
Pro Serisi

Performans İşleme





0.2 µm | 35° 38° | 5 Flutes | HRC ▶55 | MLX | Co %12

A B

Sipariş Kodu A Tip	Sipariş Kodu B Tip	d1	L2	L1	d2h5	z	r
MLD106-100	MLD106B-100	**3**	8	**57**	**6**	5	0,08
MLD106-110	MLD106B-110	**3**	8	**57**	**6**	5	0,08
MLD106-120	MLD106B-120	**4**	1	**57**	**6**	5	0,10
MLD106-130	MLD106B-130	**4**	1	**57**	**6**	5	0,10
MLD106-140	MLD106B-140	**5**	13	**57**	**6**	5	0,13
MLD106-150	MLD106B-150	**5**	13	**57**	**6**	5	0,13
MLD106-160	MLD106B-160	**6**	13	**57**	**6**	5	0,15
MLD106-170	MLD106B-170	**6**	13	**57**	**6**	5	0,15
MLD106-180	MLD106B-180	**8**	19	**63**	**8**	5	0,20
MLD106-190	MLD106B-190	**8**	19	**63**	**8**	5	0,20
MLD106-200	MLD106B-200	**10**	22	**72**	**10**	5	0,25
MLD106-210	MLD106B-210	**10**	22	**72**	**10**	5	0,25
MLD106-220	MLD106B-220	**12**	26	**83**	**12**	5	0,30
MLD106-230	MLD106B-230	**12**	26	**83**	**12**	5	0,30
MLD106-240	MLD106B-240	**16**	32	**92**	**16**	5	0,40
MLD106-250	MLD106B-250	**16**	32	**92**	**16**	5	0,40
MLD106-260	MLD106B-260	**20**	38	**100**	**20**	5	0,50
MLD106-270	MLD106B-270	**20**	38	**100**	**20**	5	0,50

MoldPlus serisi, değişken helis açısı ve özel alın geometrisi ile yüksek talaş kaldırma performansına sahipdir.

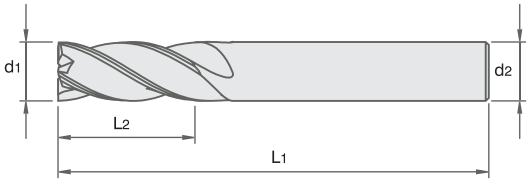
MLD110 Karbür Inox Freze Z3

moldart®

Pro Serisi

Performans İşleme







Sipariş Kodu	d1	L2	L1	d2h5	z	r
MLD110-100	**3**	8	**57**	**6**	4	0,2
MLD110-110	**4**	11	**57**	**6**	4	0,2
MLD110-120	**5**	13	**57**	**6**	4	0,2
MLD110-130	**6**	13	**57**	**6**	4	0,2
MLD110-140	**8**	19	**63**	**8**	4	0,2
MLD110-150	**10**	22	**72**	**10**	4	0,2
MLD110-160	**12**	26	**83**	**12**	4	0,3
MLD110-170	**14**	26	**83**	**14**	4	0,3
MLD110-180	**16**	32	**92**	**16**	4	0,3
MLD110-190	**18**	32	**92**	**18**	4	0,5
MLD110-200	**20**	38	**100**	**20**	4	0,5

Paslanmaz ürünlerde yüksek kesme performansı ve dayanıklılık sağlar.

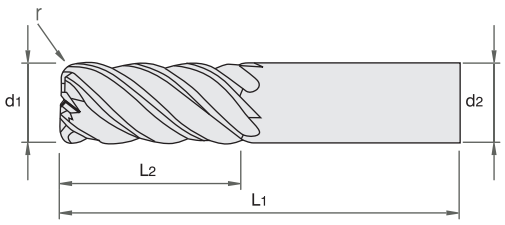
MLD112 Karbür Titan Freze Z5

moldart®

Pro Serisi

Performans İşleme







Sipariş Kodu	d1	L2	L1	d2h5	z	r
MLD112-100	**6**	13	**57**	6	5	0,3
MLD112-110	**6**	13	**57**	6	5	0,5
MLD112-120	**6**	13	**57**	6	5	1,0
MLD112-130	**8**	19	**63**	8	5	0,5
MLD112-140	**8**	19	**63**	8	5	1,0
MLD112-150	**8**	19	**63**	8	5	1,5
MLD112-160	**8**	19	**63**	8	5	2,0
MLD112-170	**10**	22	**72**	10	5	0,5
MLD112-180	**10**	22	**72**	10	5	1,0
MLD112-190	**10**	22	**72**	10	5	1,5
MLD112-200	**10**	22	**72**	10	5	2,0
MLD112-210	**12**	26	**83**	12	5	0,5
MLD112-220	**12**	26	**83**	12	5	1,0
MLD112-230	**12**	26	**83**	12	5	1,5
MLD112-240	**12**	26	**83**	12	5	2,0
MLD112-250	**12**	26	**83**	12	5	2,5
MLD112-260	**12**	26	**83**	12	5	3,0
MLD112-270	**16**	32	**92**	16	5	1,0
MLD112-280	**16**	32	**92**	16	5	1,5
MLD112-290	**16**	32	**92**	16	5	2,0
MLD112-300	**16**	32	**92**	16	5	2,5
MLD112-310	**16**	32	**92**	16	5	3,0
MLD112-320	**16**	32	**92**	16	5	4,0
MLD112-330	**20**	45	**100**	20	5	1,0
MLD112-340	**20**	45	**100**	20	5	1,5
MLD112-350	**20**	45	**100**	20	5	2,0
MLD112-360	**20**	45	**100**	20	5	2,5
MLD112-370	**20**	45	**100**	20	5	3,0
MLD112-380	**20**	45	**100**	20	5	4,0
MLD112-390	**20**	45	**100**	20	5	5,0
MLD112-400	**25**	54	**120**	25	5	1,0
MLD112-410	**25**	54	**120**	25	5	1,5
MLD112-420	**25**	54	**120**	25	5	2,0
MLD112-430	**25**	54	**120**	25	5	2,5
MLD112-440	**25**	54	**120**	25	5	3,0
MLD112-450	**25**	54	**120**	25	5	4,0
MLD112-460	**25**	54	**120**	25	5	5,0

Titanyum ürünlerde yüksek kesme performansı ve dayanıklılık sağlar..

MLD114 Kalıpçı Freze Köşe Radyus Kısa

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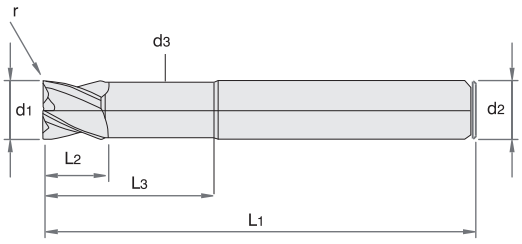
Pro Serisi

Performans İşleme







Sipariş Kodu	d1h9	d2h9	d3	L1	L2	L3	r	z
MLD114-100	2	6	1.9	58	2	12	0.5	4
MLD114-110	3	6	2.8	58	3	16	0.5	4
MLD114-120	3	3	2.8	50	3	16	0.5	4
MLD114-130	4	6	3.8	58	4	20	0.5	4
MLD114-140	4	6	3.8	58	4	20	1	4
MLD114-150	4	4	3.8	50	4	20	0.5	4
MLD114-160	4	4	3.8	50	4	20	1	4
MLD114-170	5	6	4.8	58	5	18	0.5	4
MLD114-180	5	6	4.8	58	5	18	1	4
MLD114-190	5	6	4.8	58	5	18	1.5	4
MLD114-200	6	6	5.8	58	6	23	0.5	4
MLD114-210	6	6	5.8	58	6	23	1	4
MLD114-220	6	6	5.8	58	6	23	1.5	4
MLD114-230	8	8	7.7	64	8	25	0.5	4
MLD114-240	8	8	7.7	64	8	25	1	4
MLD114-250	8	8	7.7	64	8	25	1.5	4
MLD114-260	10	10	9.7	73	10	32	0.5	4
MLD114-270	10	10	9.7	73	10	32	1	4
MLD114-280	10	10	9.7	73	10	32	1.5	4
MLD114-290	12	12	11.7	82	12	36	0.5	4
MLD114-300	12	12	11.7	82	12	36	1	4
MLD114-310	12	12	11.7	82	12	36	1.5	4
MLD114-320	12	12	11.7	82	12	36	2	4
MLD114-330	16	16	15.5	93	16	43	1	4
MLD114-340	16	16	15.5	93	16	43	1.5	4
MLD114-350	16	16	15.5	93	16	43	2	4
MLD114-360	16	16	15.5	93	16	43	3	4

MLD116 Kalıpçı Freze Köşe Radyus Uzun



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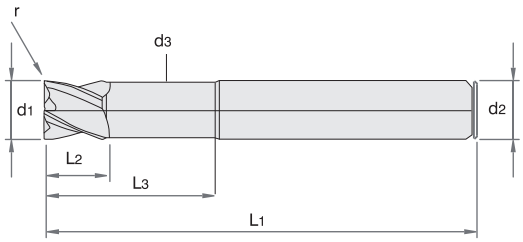
Pro Serisi

Performans İşleme





Sipariş Kodu	d1h9	d2h9	d3	L1	L2	L3	r	z
MLD116-100	4	4	3.8	74	10	20	0.5	4
MLD116-110	4	6	3.8	74	10	20	0.5	4
MLD116-120	6	6	5.8	74	16	22	0.5	4
MLD116-130	6	6	5.8	100	16	22	0.5	4
MLD116-140	6	6	5.8	74	16	22	1	4
MLD116-150	6	6	5.8	100	16	22	1	4
MLD116-160	8	8	7.7	74	16	24	0.5	4
MLD116-170	8	8	7.7	100	16	24	0.5	4
MLD116-180	8	8	7.7	74	16	24	1	4
MLD116-190	8	8	7.7	100	16	24	1	4
MLD116-200	8	8	7.7	74	16	24	1.5	4
MLD116-210	10	10	9.7	100	18	32	0.5	4
MLD116-220	10	10	9.7	100	18	32	1	4
MLD116-230	10	10	9.7	100	18	32	1.5	4
MLD116-240	10	10	9.7	100	18	32	2	4
MLD116-250	12	12	11.7	100	20	36	0.5	4
MLD116-260	12	12	11.7	100	20	36	1	4
MLD116-270	12	12	11.7	100	20	36	1.5	4
MLD116-280	12	12	11.7	100	20	36	2	4

MLD118 V10 Karbür Kaba Talaş Freze Z4

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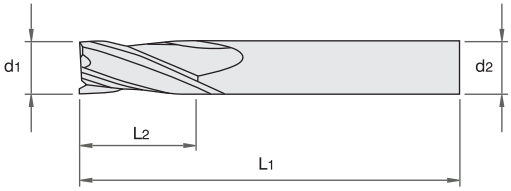
Pro Serisi

Performans İşleme





0.2 µm | 20° 25° | 4 Flutes | HRC ▶65 | MLX | Co %12

Sipariş Kodu	d1	L2	L1	d2h5	z	r
MLD118-100	**3**	8	**57**	6	4	0,2
MLD118-110	**4**	11	**57**	6	4	0,2
MLD118-120	**5**	13	**57**	6	4	0,2
MLD118-130	**6**	13	**57**	6	4	0,2
MLD118-140	**8**	19	**63**	8	4	0,2
MLD118-150	**10**	22	**72**	10	4	0,2
MLD118-160	**12**	26	**83**	12	4	0,3
MLD118-170	**14**	26	**83**	14	4	0,3
MLD118-180	**16**	32	**92**	16	4	0,3
MLD118-190	**18**	32	**92**	18	4	0,5
MLD118-200	**20**	38	**100**	20	4	0,5

MLD120 V10 Karbür Finiş Freze Z4

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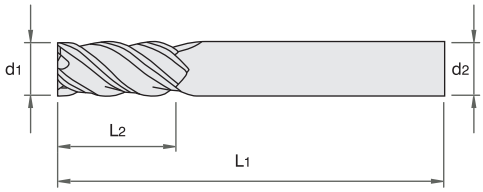
Pro Serisi

Performans İşleme





0.2 µm | 40° 43° | 4 Flutes | HRC ▶65 | MLX | Co %12

Sipariş Kodu	d1	L2	L1	d2h5	z	r
MLD120-100	**3**	8	**57**	6	4	0,2
MLD120-110	**4**	11	**57**	6	4	0,2
MLD120-120	**5**	13	**57**	6	4	0,2
MLD120-130	**6**	13	**57**	6	4	0,2
MLD120-140	**8**	19	**63**	8	4	0,2
MLD120-150	**10**	22	**72**	10	4	0,2
MLD120-160	**12**	26	**83**	12	4	0,3
MLD120-170	**14**	26	**83**	14	4	0,3
MLD120-180	**16**	32	**92**	16	4	0,3
MLD120-190	**18**	32	**92**	18	4	0,5
MLD120-200	**20**	38	**100**	20	4	0,5

MLD121 Karbür High Feed Freze Z4

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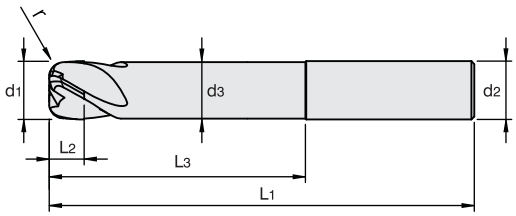
Pro Serisi

Performans İşleme





0.2 µm | -5° | 4 Flutes | HRC ▶65 | MLX | Co %12

Sipariş Kodu	d1	L2	L1	d2h5	z	r	L3	d3
MLD121-100	**3**	2	**57**	6	4	0,5	20	2,85
MLD121-110	**4**	2	**57**	6	4	0,5	20	3,80
MLD121-120	**5**	2	**57**	6	4	0,5	20	4,80
MLD121-130	**6**	3	**57**	6	4	1,5	25	5,80
MLD121-140	**6**	3	**100**	6	4	1,5	40	5,80
MLD121-150	**8**	4	**63**	8	4	2,0	30	7,70
MLD121-160	**8**	4	**100**	8	4	2,0	65	7,70
MLD121-170	**10**	5	**72**	10	4	2,0	35	9,50
MLD121-180	**10**	5	**100**	10	4	2,0	65	9,50
MLD121-190	**12**	6	**83**	12	4	3,0	40	11,50
MLD121-200	**12**	6	**100**	12	4	3,0	65	11,50
MLD121-210	**16**	8	**92**	16	4	3,0	40	11,50
MLD121-220	**16**	8	**150**	16	4	3,0	90	11,50

MLD122 Pah Freze

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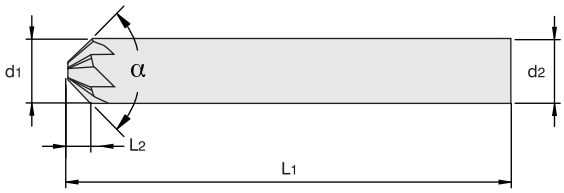
Pro Serisi

Performans İşleme





0.2 µm | 40° 43° | 4 Flutes | 5 Flutes | 6 Flutes | HRC ▶55 | MLX | Co %10

Sipariş Kodu	d1h5	L2	L1	d2h5	z	a
MLD122-100	**6**	2,5	**50**	4	6	90°
MLD122-110	**8**	3,00	**80**	5	8	90°
MLD122-120	**10**	4,25	**100**	4	10	90°
MLD122-130	**12**	4,50	**83**	6	12	90°

MLD124 Köşe Yuvarlama Freze

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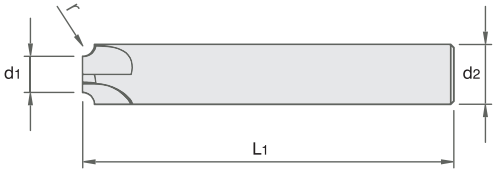
Pro Serisi

Performans İşleme





0.2 µm | 4 Flutes | HRC ▶55 | MLX | Co %10

Sipariş Kodu	d1	L1	d2h5	z	r
MLD124-100	**6**	50	6	4	0,5
MLD124-110	**6**	50	6	4	1,0
MLD124-120	**8**	60	8	4	1,0
MLD124-130	**8**	60	8	4	1,5
MLD124-140	**8**	60	8	4	2,0
MLD124-150	**10**	72	10	4	2,5
MLD124-160	**10**	72	10	4	3,0
MLD124-170	**12**	83	12	4	3,5
MLD124-180	**12**	83	12	4	4,0
MLD124-190	**16**	92	16	4	4,5
MLD124-200	**18**	100	18	4	5,0
MLD124-210	**18**	100	18	4	6,0
MLD124-220	**20**	100	20	4	8,0

MLD126 Karbür Mini Matkap

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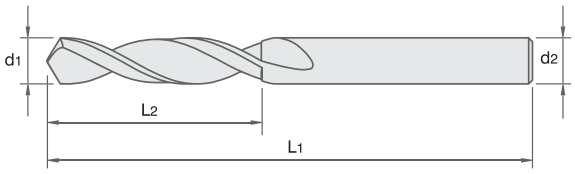



Sipariş Kodu	d1	L2	L1	d2	z
MLD126-100	**1,0**	5	**50**	3	2
MLD126-110	**1,1**	5	**50**	3	2
MLD126-120	**1,2**	5	**50**	3	2
MLD126-130	**1,3**	5	**50**	3	2
MLD126-140	**1,4**	5	**50**	3	2
MLD126-150	**1,5**	5	**50**	3	2
MLD126-160	**1,6**	7	**50**	3	2
MLD126-170	**1,7**	7	**50**	3	2
MLD126-180	**1,8**	7	**50**	3	2
MLD126-190	**1,9**	7	**50**	3	2
MLD126-200	**2,0**	9	**50**	3	2
MLD126-210	**2,1**	9	**50**	3	2
MLD126-220	**2,2**	9	**50**	3	2
MLD126-230	**2,3**	9	**50**	3	2
MLD126-240	**2,4**	9	**50**	3	2
MLD126-250	**2,5**	9	**50**	3	2
MLD126-260	**2,6**	10	**50**	3	2
MLD126-270	**2,7**	10	**50**	3	2
MLD126-280	**2,8**	10	**50**	3	2
MLD126-290	**2,9**	10	**50**	3	2

MLD128 MLD128S Karbür 3D Matkap Z2

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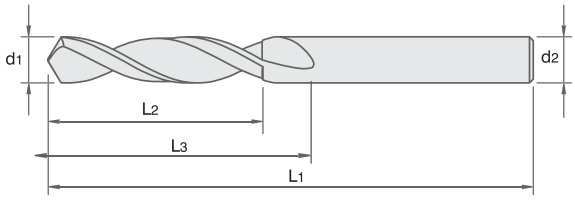
MLD128



MLD128S



0.2 µm | 30° | 2 Flutes | HRC ▶55 | MLX | Co %10

Sipariş Kodu Standart	Sipariş Kodu İçten Su Vermeli	d1	L2	L3	L1	d2	z
MLD128-100	-	**1,0**	4,5	6,0	**50**	4	2
MLD128-110	-	**1,1**	5,0	6,6	**50**	4	2
MLD128-120	-	**1,2**	5,4	7,2	**50**	4	2
MLD128-130	-	**1,3**	5,9	7,8	**50**	4	2
MLD128-140	-	**1,4**	6,3	8,4	**50**	4	2
MLD128-150	-	**1,5**	6,8	9,0	**50**	4	2
MLD128-160	-	**1,6**	7,2	9,6	**50**	4	2
MLD128-170	-	**1,7**	7,7	10,2	**50**	4	2
MLD128-180	-	**1,8**	8,1	10,8	**50**	4	2
MLD128-190	-	**1,9**	8,6	11,4	**50**	4	2
MLD128-200	-	**2,0**	9,0	12,0	**50**	4	2
MLD128-210	-	**2,1**	9,5	12,6	**50**	4	2
MLD128-220	-	**2,2**	9,9	13,2	**50**	4	2
MLD128-230	-	**2,3**	10,4	13,8	**50**	4	2
MLD128-240	-	**2,4**	10,8	14,4	**50**	4	2
MLD128-250	-	**2,5**	11,3	15,0	**50**	4	2
MLD128-260	-	**2,6**	11,7	15,6	**50**	4	2
MLD128-270	-	**2,7**	12,2	16,2	**50**	4	2
MLD128-280	-	**2,8**	12,6	16,8	**50**	4	2
MLD128-290	-	**2,9**	13,1	17,4	**50**	4	2
MLD128-300	MLD128S-100	**3,0**	14	20	**62**	6	2
MLD128-310	MLD128S-110	**3,1**	14	20	**62**	6	2
MLD128-320	MLD128S-120	**3,2**	14	20	**62**	6	2
MLD128-330	MLD128S-130	**3,3**	14	20	**62**	6	2
MLD128-340	MLD128S-140	**3,4**	14	20	**62**	6	2
MLD128-350	MLD128S-150	**3,5**	14	20	**62**	6	2
MLD128-360	MLD128S-160	**3,6**	14	20	**62**	6	2
MLD128-370	MLD128S-170	**3,7**	14	20	**62**	6	2
MLD128-380	MLD128S-180	**3,8**	14	20	**62**	6	2
MLD128-390	MLD128S-190	**3,9**	14	20	**62**	6	2
MLD128-400	MLD128S-200	**4,0**	17	24	**66**	6	2
MLD128-410	MLD128S-210	**4,1**	17	24	**66**	6	2
MLD128-420	MLD128S-220	**4,2**	17	24	**66**	6	2
MLD128-430	MLD128S-230	**4,3**	17	24	**66**	6	2
MLD128-440	MLD128S-240	**4,4**	17	24	**66**	6	2
MLD128-450	MLD128S-250	**4,5**	17	24	**66**	6	2
MLD128-460	MLD128S-260	**4,6**	17	24	**66**	6	2
MLD128-470	MLD128S-270	**4,7**	17	24	**66**	6	2
MLD128-480	MLD128S-280	**4,8**	17	24	**66**	6	2
MLD128-490	MLD128S-290	**4,9**	17	24	**66**	6	2
MLD128-500	MLD128S-300	**5,0**	20	28	**66**	6	2
MLD128-510	MLD128S-310	**5,1**	20	28	**66**	6	2
MLD128-520	MLD128S-320	**5,2**	20	28	**66**	6	2
MLD128-530	MLD128S-330	**5,3**	20	28	**66**	6	2
MLD128-540	MLD128S-340	**5,4**	20	28	**66**	6	2
MLD128-550	MLD128S-350	**5,5**	20	28	**66**	6	2
MLD128-560	MLD128S-360	**5,6**	20	28	**66**	6	2
MLD128-570	MLD128S-370	**5,7**	20	28	**66**	6	2
MLD128-580	MLD128S-380	**5,8**	20	28	**66**	6	2
MLD128-590	MLD128S-390	**5,9**	20	28	**66**	6	2
MLD128-600	MLD128S-400	**6,0**	20	28	**66**	6	2
MLD128-610	MLD128S-410	**6,1**	24	34	**76**	8	2

Sipariş Kodu Standart	Sipariş Kodu İçten Su Vermeli	d1	L2	L3	L1	d2	z
MLD128-620	MLD128S-420	**6,2**	24	34	**79**	8	2
MLD128-630	MLD128S-430	**6,3**	24	34	**79**	8	2
MLD128-640	MLD128S-440	**6,4**	24	34	**79**	8	2
MLD128-650	MLD128S-450	**6,5**	24	34	**79**	8	2
MLD128-660	MLD128S-460	**6,6**	24	34	**79**	8	2
MLD128-670	MLD128S-470	**6,7**	24	34	**79**	8	2
MLD128-680	MLD128S-480	**6,8**	24	34	**79**	8	2
MLD128-690	MLD128S-490	**6,9**	24	34	**79**	8	2
MLD128-700	MLD128S-500	**7,0**	24	34	**79**	8	2
MLD128-710	MLD128S-510	**7,1**	29	41	**79**	8	2
MLD128-720	MLD128S-520	**7,2**	29	41	**79**	8	2
MLD128-730	MLD128S-530	**7,3**	29	41	**79**	8	2
MLD128-740	MLD128S-540	**7,4**	29	41	**79**	8	2
MLD128-750	MLD128S-550	**7,5**	29	41	**79**	8	2
MLD128-760	MLD128S-560	**7,6**	29	41	**79**	8	2
MLD128-770	MLD128S-570	**7,7**	29	41	**79**	8	2
MLD128-780	MLD128S-580	**7,8**	29	41	**79**	8	2
MLD128-790	MLD128S-590	**7,9**	29	41	**79**	8	2
MLD128-800	MLD128S-600	**8,0**	29	41	**79**	8	2
MLD128-810	MLD128S-610	**8,1**	35	47	**89**	10	2
MLD128-820	MLD128S-620	**8,5**	35	47	**89**	10	2
MLD128-830	MLD128S-630	**8,8**	35	47	**89**	10	2
MLD128-840	MLD128S-640	**9,0**	35	47	**89**	10	2
MLD128-850	MLD128S-650	**9,5**	35	47	**89**	10	2
MLD128-860	MLD128S-660	**9,8**	35	47	**89**	10	2
MLD128-870	MLD128S-670	**10,0**	35	47	**89**	10	2
MLD128-880	MLD128S-680	**10,2**	40	55	**102**	12	2
MLD128-890	MLD128S-690	**10,5**	40	55	**102**	12	2
MLD128-900	MLD128S-700	**10,7**	40	55	**102**	12	2
MLD128-910	MLD128S-710	**11,0**	40	55	**102**	12	2
MLD128-920	MLD128S-720	**11,1**	40	55	**102**	12	2
MLD128-930	MLD128S-730	**11,5**	40	55	**102**	12	2
MLD128-940	MLD128S-740	**11,7**	40	55	**102**	12	2
MLD128-950	MLD128S-750	**12,0**	40	55	**102**	12	2
MLD128-960	MLD128S-760	**12,1**	43	60	**107**	14	2
MLD128-970	MLD128S-770	**12,5**	43	60	**107**	14	2
MLD128-980	MLD128S-780	**13,0**	43	60	**107**	14	2
MLD128-990	MLD128S-790	**13,5**	43	60	**107**	14	2
MLD128-1000	MLD128S-800	**14,0**	43	60	**107**	14	2
MLD128-1010	MLD128S-810	**14,5**	45	65	**115**	16	2
MLD128-1020	MLD128S-820	**15,0**	45	65	**115**	16	2
MLD128-1030	MLD128S-830	**15,5**	45	65	**115**	16	2
MLD128-1040	MLD128S-840	**16,0**	45	65	**115**	16	2
MLD128-1050	MLD128S-850	**16,5**	51	73	**123**	18	2
MLD128-1060	MLD128S-860	**17,0**	51	73	**123**	18	2
MLD128-1070	MLD128S-870	**17,5**	51	73	**123**	18	2
MLD128-1080	MLD128S-880	**18,0**	51	73	**123**	18	2
MLD128-1090	MLD128S-890	**18,5**	51	79	**131**	20	2
MLD128-1100	MLD128S-900	**19,0**	55	79	**131**	20	2
MLD128-1110	MLD128S-910	**19,5**	55	79	**131**	20	2
MLD128-1120	MLD128S-920	**20,0**	55	79	**131**	20	2

MLD130 MLD130S Karbür 5D Matkap Z2

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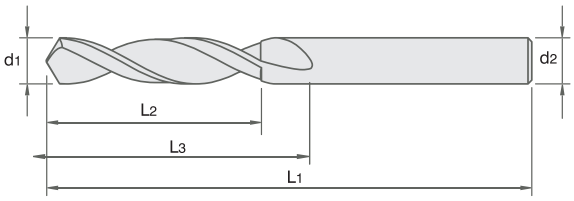



Sipariş Kodu Standart	Sipariş Kodu İçten Su Vermeli	d1	L2	L3	L1	d2	z
MLD130-100	-	**1,0**	6,5	8,0	**50**	4	2
MLD130-110	-	**1,1**	7,2	8,8	**50**	4	2
MLD130-120	-	**1,2**	7,8	9,6	**50**	4	2
MLD130-130	-	**1,3**	8,5	10,4	**50**	4	2
MLD130-140	-	**1,4**	9,1	11,2	**50**	4	2
MLD130-150	-	**1,5**	9,8	12,0	**50**	4	2
MLD130-160	-	**1,6**	10,4	12,8	**50**	4	2
MLD130-170	-	**1,7**	11,1	13,6	**50**	4	2
MLD130-180	-	**1,8**	11,7	14,4	**50**	4	2
MLD130-190	-	**1,9**	12,4	15,2	**50**	4	2
MLD130-200	-	**2,0**	13,0	16,0	**50**	4	2
MLD130-210	-	**2,1**	13,7	16,8	**50**	4	2
MLD130-220	-	**2,2**	14,3	17,6	**50**	4	2
MLD130-230	-	**2,3**	15,0	18,4	**50**	4	2
MLD130-240	-	**2,4**	15,6	19,2	**50**	4	2
MLD130-250	-	**2,5**	16,3	20,0	**50**	4	2
MLD130-260	-	**2,6**	16,9	20,8	**50**	4	2
MLD130-270	-	**2,7**	17,6	21,6	**50**	4	2
MLD130-280	-	**2,8**	18,2	22,4	**50**	4	2
MLD130-290	-	**2,9**	18,9	23,2	**50**	4	2
MLD130-300	MLD130S-100	**3,0**	23	28	**66**	6	2
MLD130-310	MLD130S-110	**3,1**	23	28	**66**	6	2
MLD130-320	MLD130S-120	**3,2**	23	28	**66**	6	2
MLD130-330	MLD130S-130	**3,3**	23	28	**66**	6	2
MLD130-340	MLD130S-140	**3,4**	23	28	**66**	6	2
MLD130-350	MLD130S-150	**3,5**	23	28	**66**	6	2
MLD130-360	MLD130S-160	**3,6**	23	28	**66**	6	2
MLD130-370	MLD130S-170	**3,7**	23	28	**66**	6	2
MLD130-380	MLD130S-180	**3,8**	23	28	**66**	6	2
MLD130-390	MLD130S-190	**3,9**	23	28	**66**	6	2
MLD130-400	MLD130S-200	**4,0**	29	36	**74**	6	2
MLD130-410	MLD130S-210	**4,1**	29	36	**74**	6	2
MLD130-420	MLD130S-220	**4,2**	29	36	**74**	6	2
MLD130-430	MLD130S-230	**4,3**	29	36	**74**	6	2
MLD130-440	MLD130S-240	**4,4**	29	36	**74**	6	2
MLD130-450	MLD130S-250	**4,5**	29	36	**74**	6	2
MLD130-460	MLD130S-260	**4,6**	29	36	**74**	6	2
MLD130-470	MLD130S-270	**4,7**	29	36	**74**	6	2
MLD130-480	MLD130S-280	**4,8**	29	36	**74**	6	2
MLD130-490	MLD130S-290	**4,9**	29	36	**74**	6	2
MLD130-500	MLD130S-300	**5,0**	35	44	**82**	6	2
MLD130-510	MLD130S-310	**5,1**	35	44	**82**	6	2
MLD130-520	MLD130S-320	**5,2**	35	44	**82**	6	2
MLD130-530	MLD130S-330	**5,3**	35	44	**82**	6	2
MLD130-540	MLD130S-340	**5,4**	35	44	**82**	6	2
MLD130-550	MLD130S-350	**5,5**	35	44	**82**	6	2
MLD130-560	MLD130S-360	**5,6**	35	44	**82**	6	2
MLD130-570	MLD130S-370	**5,7**	35	44	**82**	6	2
MLD130-580	MLD130S-380	**5,8**	35	44	**82**	6	2
MLD130-590	MLD130S-390	**5,9**	35	44	**82**	6	2
MLD130-600	MLD130S-400	**6,0**	35	44	**82**	6	2
MLD130-610	MLD130S-410	**6,1**	43	53	**91**	8	2

Sipariş Kodu Standart	Sipariş Kodu İçten Su Vermeli	d1	L2	L3	L1	d2	z
MLD130-610	MLD130S-420	**6,2**	43	53	**91**	8	2
MLD130-620	MLD130S-430	**6,3**	43	53	**91**	8	2
MLD130-630	MLD130S-440	**6,4**	43	53	**91**	8	2
MLD130-640	MLD130S-450	**6,5**	43	53	**91**	8	2
MLD130-650	MLD130S-460	**6,6**	43	53	**91**	8	2
MLD130-660	MLD130S-470	**6,7**	43	53	**91**	8	2
MLD130-670	MLD130S-480	**6,8**	43	53	**91**	8	2
MLD130-680	MLD130S-490	**6,9**	43	53	**91**	8	2
MLD130-690	MLD130S-500	**7,0**	43	53	**91**	8	2
MLD130-700	MLD130S-510	**7,1**	43	53	**91**	8	2
MLD130-710	MLD130S-520	**7,2**	43	53	**91**	8	2
MLD130-720	MLD130S-530	**7,3**	43	53	**91**	8	2
MLD130-730	MLD130S-540	**7,4**	43	53	**91**	8	2
MLD130-740	MLD130S-550	**7,5**	43	53	**91**	8	2
MLD130-750	MLD130S-560	**7,6**	43	53	**91**	8	2
MLD130-760	MLD130S-570	**7,7**	43	53	**91**	8	2
MLD130-770	MLD130S-580	**7,8**	43	53	**91**	8	2
MLD130-780	MLD130S-590	**7,9**	43	53	**91**	8	2
MLD130-790	MLD130S-600	**8,0**	43	53	**91**	8	2
MLD130-800	MLD130S-610	**8,1**	49	61	**103**	10	2
MLD130-810	MLD130S-620	**8,5**	49	61	**103**	10	2
MLD130-820	MLD130S-630	**8,8**	49	61	**103**	10	2
MLD130-830	MLD130S-640	**9,0**	49	61	**103**	10	2
MLD130-840	MLD130S-650	**9,5**	49	61	**103**	10	2
MLD130-850	MLD130S-660	**9,8**	49	61	**103**	10	2
MLD130-860	MLD130S-670	**10,0**	49	61	**103**	10	2
MLD130-870	MLD130S-680	**10,2**	56	71	**118**	12	2
MLD130-880	MLD130S-690	**10,5**	56	71	**118**	12	2
MLD130-890	MLD130S-700	**10,7**	56	71	**118**	12	2
MLD130-900	MLD130S-710	**11,0**	56	71	**118**	12	2
MLD130-910	MLD130S-720	**11,1**	56	71	**118**	12	2
MLD130-920	MLD130S-730	**11,5**	56	71	**118**	12	2
MLD130-930	MLD130S-740	**11,7**	56	71	**118**	12	2
MLD130-940	MLD130S-750	**12,0**	56	71	**118**	12	2
MLD130-950	MLD130S-760	**12,1**	60	77	**124**	14	2
MLD130-960	MLD130S-770	**12,5**	60	77	**124**	14	2
MLD130-970	MLD130S-780	**13,0**	60	77	**124**	14	2
MLD130-980	MLD130S-790	**13,5**	60	77	**124**	14	2
MLD130-990	MLD130S-800	**14,0**	60	77	**124**	14	2
MLD130-1000	MLD130S-810	**14,5**	63	83	**133**	16	2
MLD130-1010	MLD130S-820	**15,0**	63	83	**133**	16	2
MLD130-1020	MLD130S-830	**15,5**	63	83	**133**	16	2
MLD130-1030	MLD130S-840	**16,0**	63	83	**133**	16	2
MLD130-1040	MLD130S-850	**16,5**	71	93	**143**	18	2
MLD130-1050	MLD130S-860	**17,0**	71	93	**143**	18	2
MLD130-1060	MLD130S-870	**17,5**	71	93	**143**	18	2
MLD130-1070	MLD130S-880	**18,0**	71	93	**143**	18	2
MLD130-1080	MLD130S-890	**18,5**	77	101	**153**	20	2
MLD130-1090	MLD130S-900	**19,0**	77	101	**153**	20	2
MLD130-1100	MLD130S-910	**19,5**	77	101	**153**	20	2
MLD130-1110	MLD130S-920	**20,0**	77	101	**153**	20	2

MLD132 MLD132S Karbür 8D Matkap Z2

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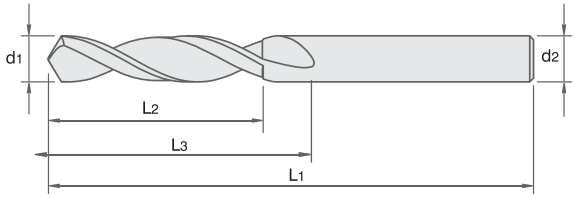
MLD132



MLD132S

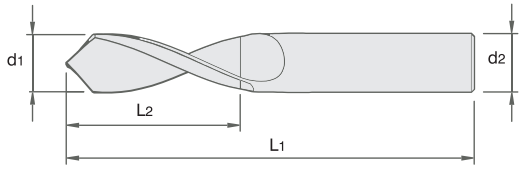


0.2 µm | 30° | 2 Flutes | HRC ▶55 | MLX | Co %10

Sipariş Kodu Standart	Sipariş Kodu İçten Su Vermeli	d1	L2	L3	L1	d2	z
MLD132-100	MLD132S-100	**3,0**	29	34	**72**	6	2
MLD132-110	MLD132S-110	**3,5**	29	34	**72**	6	2
MLD132-120	MLD132S-120	**4,0**	36	41	**81**	6	2
MLD132-130	MLD132S-130	**4,5**	36	41	**81**	6	2
MLD132-140	MLD132S-140	**5,0**	48	57	**95**	6	2
MLD132-150	MLD132S-150	**5,5**	48	57	**95**	6	2
MLD132-160	MLD132S-160	**6,0**	48	57	**95**	6	2
MLD132-170	MLD132S-170	**6,5**	64	74	**114**	8	2
MLD132-180	MLD132S-180	**7,0**	64	74	**114**	8	2
MLD132-190	MLD132S-190	**7,5**	64	74	**114**	8	2
MLD132-200	MLD132S-200	**8,0**	64	74	**114**	8	2
MLD132-210	MLD132S-210	**8,5**	80	92	**142**	10	2
MLD132-220	MLD132S-220	**9,0**	80	92	**142**	10	2
MLD132-230	MLD132S-230	**9,5**	80	92	**142**	10	2
MLD132-240	MLD132S-240	**10,0**	80	92	**142**	10	2
MLD132-250	MLD132S-250	**10,5**	96	111	**162**	12	2
MLD132-260	MLD132S-260	**11,0**	96	111	**162**	12	2
MLD132-270	MLD132S-270	**11,5**	96	111	**162**	12	2
MLD132-280	MLD132S-280	**12,0**	96	111	**162**	12	2
MLD132-290	MLD132S-290	**12,5**	112	129	**178**	14	2
MLD132-300	MLD132S-300	**13,0**	112	129	**178**	14	2
MLD132-310	MLD132S-310	**13,5**	112	129	**178**	14	2
MLD132-320	MLD132S-320	**14,0**	112	129	**178**	14	2
MLD132-330	MLD132S-330	**14,5**	128	148	**203**	16	2
MLD132-340	MLD132S-340	**15,0**	128	148	**203**	16	2
MLD132-350	MLD132S-350	**15,5**	128	148	**203**	16	2
MLD132-360	MLD132S-360	**16,0**	128	148	**203**	16	2
MLD132-370	MLD132S-370	**16,5**	128	148	**203**	18	2
MLD132-380	MLD132S-380	**17,0**	144	166	**222**	18	2
MLD132-390	MLD132S-390	**17,5**	144	166	**222**	18	2
MLD132-400	MLD132S-400	**18,0**	144	166	**222**	18	2
MLD132-410	MLD132S-410	**19,0**	164	194	**240**	20	2
MLD132-420	MLD132S-420	**20,0**	164	194	**240**	20	2

MLD134 Karbür NC Matkap



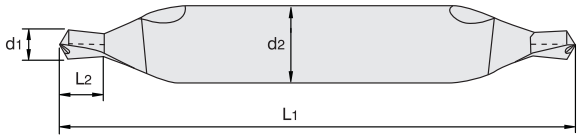


0.2 µm | 30° | 2 Flutes | HRC ▸55 | MLX | Co %10

Sipariş Kodu 90°	Sipariş Kodu 90° Kaplamalı	Sipariş Kodu 120°	Sipariş Kodu 120° Kaplamalı	d1	L2	L1	d2	z
MLD134-100	MLD134K-100	MLD134T-100	MLD134B-100	**3**	8	50	**3**	2
MLD134-110	MLD134K-110	MLD134T-110	MLD134B-110	**4**	11	50	**4**	2
MLD134-120	MLD134K-120	MLD134T-120	MLD134B-120	**5**	13	50	**5**	2
MLD134-130	MLD134K-130	MLD134T-130	MLD134B-130	**6**	13	50	**6**	2
MLD134-140	MLD134K-140	MLD134T-140	MLD134B-140	**8**	19	63	**8**	2
MLD134-150	MLD134K-150	MLD134T-150	MLD134B-150	**10**	22	72	**10**	2
MLD134-160	MLD134K-160	MLD134T-160	MLD134B-160	**12**	26	83	**12**	2
MLD134-170	MLD134K-170	MLD134T-170	MLD134B-170	**14**	26	83	**14**	2
MLD134-180	MLD134K-180	MLD134T-180	MLD134B-180	**16**	32	92	**16**	2
MLD134-190	MLD134K-190	MLD134T-190	MLD134B-190	**18**	32	92	**18**	2
MLD134-200	MLD134K-200	MLD134T-200	MLD134B-200	**20**	38	100	**20**	2

MLD136 Karbür Punta Matkabı





0.2 µm | 30° | 2 Flutes | HRC ▸55 | MLX | Co %10

Sipariş Kodu	d1	L2	L1	d2	z
MLD136-100	**1,00**	1,30	**35**	**3**	2
MLD136-110	**1,25**	1,60	**35**	**3**	2
MLD136-120	**1,60**	2,00	**35**	**4**	2
MLD136-130	**2,00**	2,50	**40**	**5**	2
MLD136-140	**2,50**	3,10	**45**	**6**	2

MLD138 Karbür Rayba Düz Kanal Z4 /Z6

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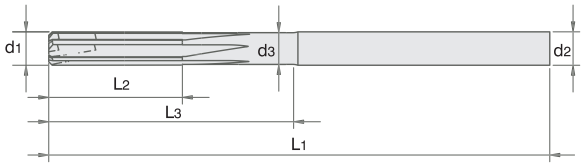



Sipariş Kodu	d1	L2	L3	L1	d2	z	d3
MLD138-100	**3**	8	20	**50**	4	4	2,85
MLD138-110	**3**	12	40	**82**	4	4	2,85
MLD138-120	**4**	8	20	**50**	4	4	3,80
MLD138-130	**4**	12	40	**82**	4	4	3,80
MLD138-140	**5**	8	20	**50**	8	6	4,80
MLD138-150	**5**	12	40	**82**	6	6	4,80
MLD138-160	**6**	8	20	**50**	6	6	5,80
MLD138-170	**6**	12	40	**82**	6	6	5,80
MLD138-180	**8**	10	30	**65**	8	6	7,70
MLD138-190	**8**	16	65	**110**	8	6	7,70
MLD138-200	**10**	12	40	**82**	10	6	9,50
MLD138-210	**10**	19	80	**130**	10	6	9,50
MLD138-220	**12**	12	40	**82**	12	6	11,50
MLD138-230	**12**	19	95	**165**	12	6	11,50
MLD138-240	**14**	14	45	**82**	14	6	13,50
MLD138-250	**14**	22	100	**165**	14	6	13,50
MLD138-260	**16**	14	50	**92**	16	6	15,50
MLD138-270	**16**	22	110	**165**	16	6	15,50
MLD138-280	**18**	16	55	**92**	14	6	17,50
MLD138-290	**18**	25	110	**165**	14	6	17,50
MLD138-300	**20**	16	60	**100**	16	6	19,50
MLD138-310	**20**	25	110	**165**	16	6	19,50

MLD140 Karbür Rayba Sol Helis Z4 /Z8

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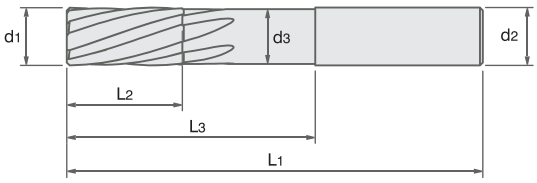
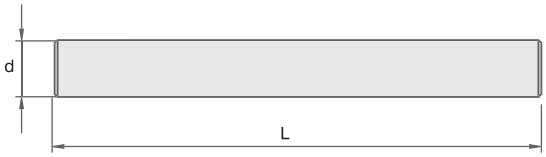




Sipariş Kodu	d1	L2	L3	L1	d2	z	d3
MLD140-100	**3**	6	16	**50**	3	4	2,85
MLD140-110	**3**	15	30	**65**	3	4	2,85
MLD140-120	**4**	8	18	**50**	4	4	3,80
MLD140-130	**4**	19	38	**82**	4	4	3,80
MLD140-140	**5**	10	20	**50**	5	6	4,80
MLD140-150	**5**	23	46	**82**	5	6	4,80
MLD140-160	**6**	12	22	**66**	6	6	5,80
MLD140-170	**6**	26	52	**82**	6	6	5,80
MLD140-180	**8**	16	30	**65**	8	6	7,70
MLD140-190	**8**	33	66	**110**	8	6	7,70
MLD140-200	**10**	20	40	**82**	10	6	9,50
MLD140-210	**10**	38	76	**130**	10	6	9,50
MLD140-220	**12**	24	45	**82**	12	6	11,50
MLD140-230	**12**	44	88	**165**	12	6	11,50
MLD140-240	**14**	28	50	**82**	14	6	13,50
MLD140-250	**14**	47	94	**165**	14	6	13,50
MLD140-260	**16**	32	55	**92**	16	8	15,50
MLD140-270	**16**	52	104	**165**	16	8	15,50
MLD140-280	**18**	36	60	**92**	18	8	17,50
MLD140-290	**18**	56	112	**182**	18	8	17,50
MLD140-300	**20**	40	65	**100**	20	8	19,50
MLD140-310	**20**	60	120	**195**	20	8	19,50

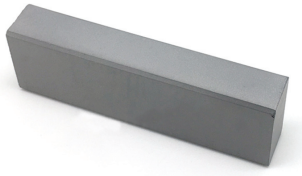
MLD142 Karbür Yuvarlak Çubuk

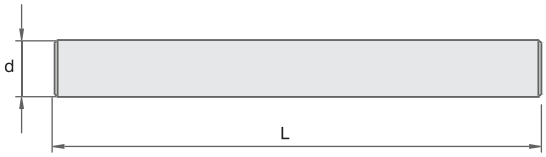




Sipariş Kodu CO 10	Sipariş Kodu CO 12	d	L
MLD142-100	MLD142B-100	**3**	330
MLD142-110	MLD142B-110	**4**	330
MLD142-120	MLD142B-120	**5**	330
MLD142-130	MLD142B-130	**6**	330
MLD142-140	MLD142B-140	**8**	330
MLD142-150	MLD142B-150	**10**	330
MLD142-160	MLD142B-160	**12**	330
MLD142-170	MLD142B-170	**14**	330
MLD142-180	MLD142B-180	**16**	330
MLD142-190	MLD142B-190	**18**	330
MLD142-200	MLD142B-200	**20**	330

MLD144 Karbür Kare Çubuk





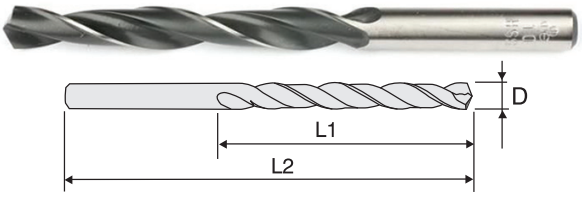
Sipariş Kodu CO 10	Sipariş Kodu CO 12	d	L
MLD144-100	MLD144B-100	**3**	330
MLD144-110	MLD144B-110	**4**	330
MLD144-120	MLD144B-120	**5**	330
MLD144-130	MLD144B-130	**6**	330
MLD144-140	MLD144B-140	**8**	330
MLD144-150	MLD144B-150	**10**	330
MLD144-160	MLD144B-160	**12**	330
MLD144-170	MLD144B-170	**14**	330
MLD144-180	MLD144B-180	**16**	330
MLD144-190	MLD144B-190	**18**	330
MLD144-200	MLD144B-200	**20**	330

HSS Kesici Takımları



MLDH10 HSS DIN338 Matkap Ucu Haddeli

Mat.: HSS

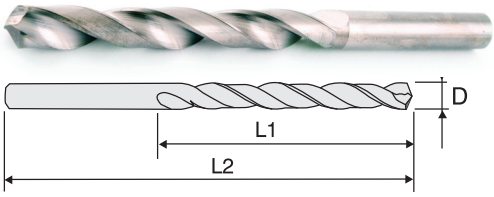


Sipariş Kodu	D	L2	L1
MLDH10000200	2,0	49	24
MLDH10000250	2,5	57	30
MLDH10000300	3,0	61	33
MLDH10000350	3,5	70	39
MLDH10000400	4,0	75	43
MLDH10000450	4,5	80	47
MLDH10000500	5,0	86	52
MLDH10000550	5,5	93	57
MLDH10000600	6,0	93	57
MLDH10000650	6,5	101	63
MLDH10000700	7,0	109	69
MLDH10000750	7,5	109	69
MLDH10000800	8,0	117	75
MLDH10000850	8,5	117	75
MLDH10000900	9,0	125	81
MLDH10000950	9,5	125	81
MLDH10001000	10,0	133	87
MLDH10001050	10,5	133	87
MLDH10001100	11,0	142	94
MLDH10001150	11,5	142	94
MLDH10001200	12,0	151	101
MLDH10001250	12,5	151	101
MLDH10001300	13,0	151	101
MLDH10010210	2,1	49	24
MLDH10010220	2,2	53	27
MLDH10010230	2,3	53	27
MLDH10010240	2,4	57	30
MLDH10010260	2,6	57	30
MLDH10010270	2,7	61	33
MLDH10010280	2,8	61	33
MLDH10010290	2,9	61	33
MLDH10010310	3,1	65	36
MLDH10010320	3,2	65	36
MLDH10010330	3,3	65	36
MLDH10010340	3,4	70	39
MLDH10010360	3,6	70	39
MLDH10010370	3,7	70	39
MLDH10010380	3,8	75	43
MLDH10010390	3,9	75	43
MLDH10010410	4,1	75	43
MLDH10010420	4,2	75	43
MLDH10010430	4,3	80	47
MLDH10010440	4,4	80	47
MLDH10010460	4,6	80	47
MLDH10010470	4,7	80	47
MLDH10010480	4,8	86	52
MLDH10010490	4,9	86	52
MLDH10010510	5,1	86	52
MLDH10010520	5,2	86	52
MLDH10010530	5,3	86	52
MLDH10010540	5,4	93	57
MLDH10010560	5,6	93	57
MLDH10010570	5,7	93	57
MLDH10010580	5,8	93	57
MLDH10010590	5,9	93	57
MLDH10010610	6,1	101	63

Sipariş Kodu	D	L2	L1
MLDH10010620	6,2	101	63
MLDH10010630	6,3	101	63
MLDH10010640	6,4	101	63
MLDH10010660	6,6	101	63
MLDH10010670	6,7	101	63
MLDH10010680	6,8	109	69
MLDH10010690	6,9	109	69
MLDH10010710	7,1	109	69
MLDH10010720	7,2	109	69
MLDH10010730	7,3	109	69
MLDH10010740	7,4	109	69
MLDH10010760	7,6	117	75
MLDH10010770	7,7	117	75
MLDH10010780	7,8	117	75
MLDH10010790	7,9	117	75
MLDH10010810	8,1	117	75
MLDH10010820	8,2	117	75
MLDH10010830	8,3	117	75
MLDH10010840	8,4	117	75
MLDH10010860	8,6	125	81
MLDH10010870	8,7	125	81
MLDH10010880	8,8	125	81
MLDH10010890	8,9	125	81
MLDH10010910	9,1	125	81
MLDH10010920	9,2	125	81
MLDH10010930	9,3	125	81
MLDH10010940	9,4	125	81
MLDH10010960	9,6	133	87
MLDH10010970	9,7	133	87
MLDH10010980	9,8	133	87
MLDH10010990	9,9	133	87
MLDH10011010	10,1	133	87
MLDH10011020	10,2	133	87
MLDH10011030	10,3	133	87
MLDH10011040	10,4	133	87
MLDH10011060	10,6	133	87
MLDH10011070	10,7	142	94
MLDH10011080	10,8	142	94
MLDH10011090	10,9	142	94
MLDH10011110	11,1	142	94
MLDH10011120	11,2	142	94
MLDH10011130	11,3	142	94
MLDH10011140	11,4	142	94
MLDH10011160	11,6	142	94
MLDH10011170	11,7	142	94
MLDH10011180	11,8	142	94
MLDH10011190	11,9	151	101
MLDH10011210	12,1	151	101
MLDH10011220	12,2	151	101
MLDH10011230	12,3	151	101
MLDH10011240	12,4	151	101
MLDH10011260	12,6	151	101
MLDH10011270	12,7	151	101
MLDH10011280	12,8	151	101
MLDH10011290	12,9	151	101
MLDH10011310	13,1	151	101
MLDH10011320	13,2	151	101

MLDH12 HSS DIN338 Matkap Ucu Taşlanmış

Mat.: HSS



Sipariş Örneği MLDH12/D

D	L2	L1
0,40	20	5
0,50	22	6
0,60	24	7
0,70	28	9
0,80	30	10
0,90	32	11
1,00	34	12
1,10	36	14
1,20	38	16
1,30	38	16
1,40	40	18
1,50	40	18
1,60	43	20
1,70	43	20
1,80	46	22
1,90	46	22
2,00	49	24
2,10	49	24
2,20	53	27
2,30	53	27
2,40	57	30
2,50	57	30
2,60	57	30
2,70	61	33
2,80	61	33
2,90	61	33
3,00	61	33
3,10	65	36
3,20	65	36
3,30	65	36
3,40	70	39
3,50	70	39
3,60	70	39
3,70	70	39
3,80	75	43
3,90	75	43
4,00	75	43
4,10	75	43
4,20	75	43
4,30	80	47
4,40	80	47
4,50	80	47
4,60	80	47
4,70	80	47
4,80	86	52
4,90	86	52
5,00	86	52
5,10	86	52
5,20	86	52
5,30	86	52
5,40	93	57
5,50	93	57
5,60	93	57
5,70	93	57
5,80	93	57

D	L2	L1
5,90	93	57
6,00	93	57
6,10	101	63
6,20	101	63
6,30	101	63
6,40	101	63
6,50	101	63
6,60	101	63
6,70	101	63
6,80	109	69
6,90	109	69
7,00	109	69
7,10	109	69
7,20	109	69
7,30	109	69
7,40	109	69
7,50	109	69
7,60	117	75
7,70	117	75
7,80	117	75
7,90	117	75
8,00	117	75
8,10	117	75
8,20	117	75
8,30	117	75
8,40	117	75
8,50	117	75
8,60	125	81
8,70	125	81
8,80	125	81
8,90	125	81
9,00	125	81
9,10	125	81
9,20	125	81
9,30	125	81
9,40	125	81
9,50	125	81
9,60	133	87
9,70	133	87
9,80	133	87
9,90	133	87
10,00	133	87
10,10	133	87
10,20	133	87
10,30	133	87
10,40	133	87
10,50	133	87
10,60	133	87
10,70	142	94
10,80	142	94
10,90	142	94
11,00	142	94
11,10	142	94
11,20	142	94
11,30	142	94

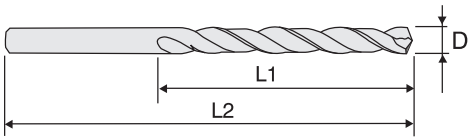
D	L2	L1
11,40	142	94
11,50	142	94
11,60	142	94
11,70	142	94
11,80	142	94
11,90	151	101
12,00	151	101
12,10	151	101
12,20	151	101
12,30	151	101
12,40	151	101
12,50	151	101
12,60	151	101
12,70	151	101
12,80	151	101
12,90	151	101
13,00	151	101
13,10	151	101
13,20	151	101
13,30	160	108
13,40	160	108
13,50	160	108
13,60	160	108
13,70	160	108
13,80	160	108
13,90	160	108
14,00	160	108
14,10	169	114
14,20	169	114
14,30	169	114
14,40	169	114
14,50	169	114
14,60	169	114
14,70	169	114
14,80	169	114
14,90	169	114
15,00	169	114
15,10	178	120
15,20	178	120
15,30	178	120
15,40	178	120
15,50	178	120
15,60	178	120
15,70	178	120
15,80	178	120
15,90	178	120
16,00	178	120
16,10	184	125
16,20	184	125
16,30	184	125
16,40	184	125
16,50	184	125
16,60	184	125
16,70	184	125
16,80	184	125

D	L2	L1
16,90	184	125
17,00	184	125
17,10	191	130
17,20	191	130
17,30	191	130
17,40	191	130
17,50	191	130
17,60	191	130
17,70	191	130
17,80	191	130
17,90	191	130
18,00	191	130
18,10	198	135
18,20	198	135
18,30	198	135
18,40	198	135
18,50	198	135
18,60	198	135
18,70	198	135
18,80	198	135
18,90	198	135
19,00	198	135
19,10	205	140
19,20	205	140
19,30	205	140
19,40	205	140
19,50	205	140
19,60	205	140
19,70	205	140
19,80	205	140
19,90	205	140
20,00	205	140
20,50	213	145
21,00	213	145
21,50	221	150
22,00	221	150
22,50	229	155
23,00	229	155
23,50	229	155
24,00	236	160
24,50	236	160
25,00	236	160

MLDH14 HSS DIN340 Uzun Matkap Ucu

Mat.: HSS



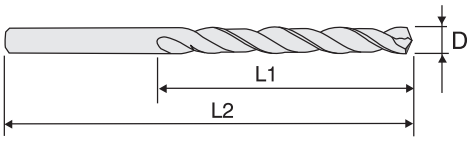


Sipariş Kodu	D	L1	L2
MLDH14/100	1.50	70	45
MLDH14/110	2.00	85	56
MLDH14/120	2.50	95	62
MLDH14/130	3.00	100	66
MLDH14/140	3.20	106	69
MLDH14/150	3.30	112	73
MLDH14/160	3.50	112	73
MLDH14/170	3.80	119	78
MLDH14/180	4.00	119	78
MLDH14/190	4.20	119	78
MLDH14/200	4.50	126	82
MLDH14/210	5.00	132	87
MLDH14/220	5.50	139	91
MLDH14/230	6.00	139	91
MLDH14/240	6.50	148	97
MLDH14/250	7.00	156	102
MLDH14/260	7.50	156	102
MLDH14/270	8.00	165	109
MLDH14/280	8.50	165	109
MLDH14/290	9.00	175	115
MLDH14/300	9.50	175	115
MLDH14/310	10.00	184	121
MLDH14/320	10.50	184	121
MLDH14/330	11.00	195	128
MLDH14/340	11.50	195	128
MLDH14/350	12.00	205	134
MLDH14/360	12.50	205	134
MLDH14/370	13.00	205	134
MLDH14/380	13.50	214	140
MLDH14/390	14.00	214	140
MLDH14/400	14.50	220	144
MLDH14/410	15.00	220	144
MLDH14/420	15.50	227	149
MLDH14/430	16.00	227	149
MLDH14/440	16.50	235	154
MLDH14/450	17.00	235	154
MLDH14/460	17.50	241	158
MLDH14/470	18.00	241	158
MLDH14/480	18.50	247	162
MLDH14/490	19.00	247	162
MLDH14/500	19.50	254	166
MLDH14/510	20.00	254	166

MLDH16 HSS DIN338 Altın Seri Matkap Ucu

Mat.: HSS-E



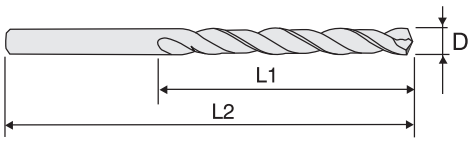


Sipariş Kodu	D	L1	L2
MLDH16/100	2.00	49	24
MLDH16/110	2.50	57	30
MLDH16/120	2.60	57	30
MLDH16/130	2.70	61	33
MLDH16/140	2.80	61	33
MLDH16/150	2.90	61	33
MLDH16/160	3.00	61	33
MLDH16/170	3.20	65	36
MLDH16/180	3.30	65	36
MLDH16/190	3.50	70	39
MLDH16/200	3.80	75	43
MLDH16/210	4.00	75	43
MLDH16/220	4.20	75	43
MLDH16/230	4.50	80	47
MLDH16/240	5.00	86	52
MLDH16/250	5.10	86	52
MLDH16/260	5.20	86	52
MLDH16/270	5.50	93	57
MLDH16/280	6.00	93	57
MLDH16/290	6.50	101	63
MLDH16/300	6.60	101	63
MLDH16/310	6.80	109	69
MLDH16/320	7.00	109	69
MLDH16/330	7.50	109	69
MLDH16/340	8.00	117	75
MLDH16/350	8.20	117	75
MLDH16/360	8.50	117	75
MLDH16/370	8.60	125	81
MLDH16/380	8.70	125	81
MLDH16/390	8.80	125	81
MLDH16/400	8.90	125	81
MLDH16/410	9.00	125	81
MLDH16/420	9.50	125	81
MLDH16/430	10.00	133	87
MLDH16/440	10.20	133	87
MLDH16/450	10.50	133	87
MLDH16/460	10.80	142	94
MLDH16/470	11.00	142	94
MLDH16/480	11.50	142	94
MLDH16/490	12.00	151	101
MLDH16/500	12.50	151	101
MLDH16/510	13.00	151	101
MLDH16/520	13.50	160	108
MLDH16/530	14.00	160	108
MLDH16/540	14.50	169	114
MLDH16/550	15.00	169	114
MLDH16/560	15.50	178	120
MLDH16/570	16.00	178	120

MLDH18
MLDH20

Silindirik Saplı Çok Uzun Matkap Uçları
Su Yolluk Matkapları

Mat.: HSS



Sipariş Örneği MLDH18/SerixD **N Tipi**



Sipariş Örneği MLDH20/SerixD **GT100 Tipi**



EKSTRA UZUN BOYLAR

375 mm Boy

Sipariş Kodu	D	L2	L1
MLDH20/100	**13.5**	375	265
MLDH20/110	**14**		
MLDH20/120	**14.5**		
MLDH20/130	**15**		
MLDH20/140	**15.5**		
MLDH20/150	**16**		
MLDH20/160	**16.5**		
MLDH20/170	**17**		
MLDH20/180	**17.5**		
MLDH20/190	**18**		
MLDH20/200	**18.5**		
MLDH20/210	**19**		
MLDH20/220	**19.5**		
MLDH20/230	**20**		

500 mm Boy

Sipariş Kodu	D	L2	L1
MLDH20/240	**4**	500	400
MLDH20/250	**4.5**	500	400
MLDH20/260	**5**	500	400
MLDH20/270	**5.5**	500	400
MLDH20/280	**6**	500	400
MLDH20/290	**6.5**	500	400
MLDH20/300	**7**	500	400
MLDH20/310	**7.5**	500	400
MLDH20/320	**8**	500	500
MLDH20/330	**8**	650	500
MLDH20/340	**8.5**	500	400
MLDH20/350	**9**	500	400
MLDH20/360	**10**	600	500
MLDH20/370	**10.5**	600	500
MLDH20/380	**11**	600	500
MLDH20/390	**11.5**	600	500
MLDH20/400	**12**	600	500

600 mm Boy

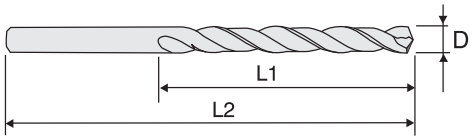
Sipariş Kodu	D	L2	L1
MLDH20/410	**14**	480	330
MLDH20/420	**14.5**	480	330
MLDH20/430	**15**	600	500
MLDH20/440	**15.5**	600	500
MLDH20/450	**16**	600	500
MLDH20/460	**16.5**	600	500
MLDH20/470	**17**	600	500
MLDH20/480	**17.5**	600	500
MLDH20/490	**18**	600	500
MLDH20/500	**18.5**	600	500
MLDH20/510	**19**	600	500
MLDH20/520	**19.5**	600	500
MLDH20/530	**20**	600	500

Seri 1869	D	L2	L1
1	2.00	125	85
	2.50	140	95
	3.00	150	100
	3.50	165	115
	4.00	175	120
	4.50	185	125
	5.00	195	135
	5.50	205	140
	6.00	205	140
	6.50	215	150
	7.00	225	155
	7.50	225	155
	8.00	240	165
	8.50	240	165
	9.00	250	175
	9.50	250	175
	10.00	265	185
	10.50	265	185
	11.00	280	195
	11.50	280	195
	12.00	295	205
	12.50	295	205
	13.00	295	205
2	3.00	190	130
	3.50	210	145
	4.00	220	150
	4.50	235	160
	5.00	245	170
	5.50	260	180
	6.00	260	180
	6.50	275	190
	7.00	290	200
	7.50	290	200
	8.00	305	210
	8.50	305	210
	9.00	320	220
	9.50	320	220
	10.00	340	235
	10.50	340	235
	11.00	365	250
	11.50	365	250
	12.00	375	260
	12.50	375	260
	13.00	375	260
3	3.50	265	180
	4.00	280	190
	4.50	295	200
	5.00	315	210
	5.50	330	225
	6.00	330	225
	6.50	350	235
	7.00	370	250
	7.50	370	250
	8.00	390	265
	8.50	390	265
	9.00	410	280
	9.50	410	280
	10.00	430	295
	10.50	430	295
	11.00	455	310
	11.50	455	310
	12.00	480	330
	12.50	480	330
	13.00	480	330

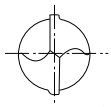
MLDH22 Gold Seri Performans Matkap Ucu Kaplamalı

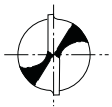
Mat.: HSS-E DIN338





Kesme Geometrisi : Sağ yönde helis
Uç Açısı : 135° helis 1.6 mm altında normal uç, 1.6 mm ve üzerinde bölünmüş uç.
Yüzey Uygulaması : Parlak gövde, çalışan bölge TiN kaplamalı.
Kullanım Yerleri : Paslanmaz çelikler, titanyum alaşımları veya inkonel gibi zor işlenen malzemelerde.


1.6 mm altında


1.6 mm ve üzeri

Sipariş Kodu	D	L2	L1
MLDH22/100	**1,00**	34	12
MLDH22/110	**1,10**	36	14
MLDH22/120	**1,20**	38	16
MLDH22/130	**1,30**	38	16
MLDH22/140	**1,40**	40	18
MLDH22/150	**1,50**	40	18
MLDH22/160	**1,60**	43	20
MLDH22/170	**1,70**	43	20
MLDH22/180	**1,80**	46	22
MLDH22/190	**1,90**	46	22
MLDH22/200	**2,00**	49	24
MLDH22/210	**2,10**	49	24
MLDH22/220	**2,20**	53	27
MLDH22/230	**2,30**	53	27
MLDH22/240	**2,40**	57	30
MLDH22/250	**2,50**	57	30
MLDH22/260	**2,60**	57	30
MLDH22/270	**2,70**	61	33
MLDH22/280	**2,80**	61	33
MLDH22/290	**2,90**	61	33
MLDH22/300	**3,00**	61	33
MLDH22/310	**3,10**	65	36
MLDH22/320	**3,20**	65	36
MLDH22/330	**3,30**	65	36
MLDH22/340	**3,40**	70	39
MLDH22/350	**3,50**	70	39
MLDH22/360	**3,60**	70	39
MLDH22/370	**3,70**	70	39
MLDH22/380	**3,80**	75	43
MLDH22/390	**3,90**	75	43
MLDH22/400	**4,00**	75	43
MLDH22/410	**4,10**	75	43
MLDH22/420	**4,20**	75	43
MLDH22/430	**4,30**	80	47
MLDH22/440	**4,40**	80	47
MLDH22/450	**4,50**	80	47
MLDH22/460	**4,60**	80	47
MLDH22/470	**4,70**	80	47
MLDH22/480	**4,80**	86	52
MLDH22/490	**4,90**	86	52
MLDH22/500	**5,00**	86	52
MLDH22/510	**5,10**	86	52
MLDH22/520	**5,20**	86	52
MLDH22/530	**5,30**	86	52
MLDH22/540	**5,40**	93	57

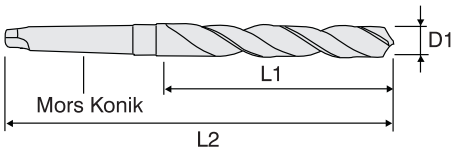
Sipariş Kodu	D	L2	L1
MLDH22/550	**5,50**	93	57
MLDH22/560	**5,60**	93	57
MLDH22/570	**5,70**	93	57
MLDH22/580	**5,80**	93	57
MLDH22/590	**5,90**	93	57
MLDH22/600	**6,00**	93	57
MLDH22/610	**6,10**	101	63
MLDH22/620	**6,20**	101	63
MLDH22/630	**6,30**	101	63
MLDH22/640	**6,40**	101	63
MLDH22/650	**6,50**	101	63
MLDH22/660	**6,60**	101	63
MLDH22/670	**6,70**	101	63
MLDH22/680	**6,80**	109	69
MLDH22/690	**6,90**	109	69
MLDH22/700	**7,00**	109	69
MLDH22/710	**7,10**	109	69
MLDH22/720	**7,20**	109	69
MLDH22/730	**7,30**	109	69
MLDH22/740	**7,40**	109	69
MLDH22/750	**7,50**	109	69
MLDH22/760	**7,60**	117	75
MLDH22/770	**7,70**	117	75
MLDH22/780	**7,80**	117	75
MLDH22/790	**7,90**	117	75
MLDH22/800	**8,00**	117	75
MLDH22/810	**8,10**	117	75
MLDH22/820	**8,20**	117	75
MLDH22/830	**8,30**	117	75
MLDH22/840	**8,40**	117	75
MLDH22/850	**8,50**	117	75
MLDH22/860	**8,60**	125	81
MLDH22/870	**8,70**	125	81
MLDH22/880	**8,80**	125	81
MLDH22/890	**8,90**	125	81
MLDH22/900	**9,00**	125	81
MLDH22/910	**9,10**	125	81
MLDH22/920	**9,20**	125	81
MLDH22/930	**9,30**	125	81
MLDH22/940	**9,40**	125	81
MLDH22/950	**9,50**	125	81
MLDH22/960	**9,60**	133	87
MLDH22/970	**9,70**	133	87
MLDH22/980	**9,80**	133	87
MLDH22/990	**9,90**	133	87

Sipariş Kodu	D	L2	L1
MLDH22/1000	**10,00**	133	87
MLDH22/1010	**10,10**	133	87
MLDH22/1020	**10,20**	133	87
MLDH22/1030	**10,30**	133	87
MLDH22/1040	**10,40**	133	87
MLDH22/1050	**10,50**	133	87
MLDH22/1060	**10,60**	133	87
MLDH22/1070	**10,70**	142	94
MLDH22/1080	**10,80**	142	94
MLDH22/1090	**10,90**	142	94
MLDH22/1100	**11,00**	142	94
MLDH22/1110	**11,10**	142	94
MLDH22/1120	**11,20**	142	94
MLDH22/1130	**11,30**	142	94
MLDH22/1140	**11,40**	142	94
MLDH22/1150	**11,50**	142	94
MLDH22/1160	**11,60**	142	94
MLDH22/1170	**11,70**	142	94
MLDH22/1180	**11,80**	142	94
MLDH22/1190	**11,90**	151	101
MLDH22/1200	**12,00**	151	101
MLDH22/1210	**12,10**	151	101
MLDH22/1220	**12,20**	151	101
MLDH22/1230	**12,30**	151	101
MLDH22/1240	**12,40**	151	101
MLDH22/1250	**12,50**	151	101
MLDH22/1260	**12,60**	151	101
MLDH22/1270	**12,70**	151	101
MLDH22/1280	**12,80**	151	101
MLDH22/1290	**12,90**	151	101
MLDH22/1300	**13,00**	151	101

MLDH24 Mors Konik Saplı Matkap Ucu

Mat.: HSS DIN345





Sipariş Örneği MLDH24/D1xL2

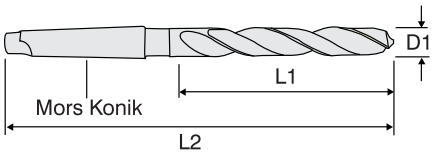
D1	L2	L1	M.Konik
8.00	156	75	1
8.50	156	75	1
9.00	162	81	1
9.50	162	81	1
10.00	168	87	1
10.50	168	87	1
11.00	175	94	1
11.50	175	94	1
12.00	182	101	1
12.50	182	101	1
13.00	182	101	1
13.50	189	108	1
14.00	189	108	1
14.50	212	114	2
15.00	212	114	2
15.50	218	120	2
16.00	218	120	2
16.50	223	125	2
17.00	223	125	2
17.50	228	130	2
18.00	228	130	2
18.50	233	135	2
19.00	233	135	2
19.50	238	140	2
20.00	238	140	2
20.50	243	145	2
21.00	243	145	2
21.50	248	150	2
22.00	248	150	2
22.50	253	155	2
23.00	253	155	2
23.50	276	155	3
24.00	281	160	3
24.50	281	160	3
25.00	281	160	3
25.50	286	165	3
26.00	286	165	3

D1	L2	L1	M.Konik
26.50	286	165	3
27.00	291	170	3
27.50	291	170	3
28.00	291	170	3
28.50	296	175	3
29.00	296	175	3
29.50	296	175	3
30.00	296	175	3
30.50	301	180	3
31.00	301	180	3
31.50	301	180	3
32.00	334	185	4
32.50	334	185	4
33.00	334	185	4
33.50	334	185	4
34.00	339	190	4
34.50	339	190	4
35.00	339	190	4
35.50	339	190	4
36.00	344	195	4
36.50	344	195	4
37.00	344	195	4
37.50	344	195	4
38.00	349	200	4
38.50	349	200	4
39.00	349	200	4
39.50	349	200	4
40.00	349	200	4
41.00	354	205	4
42.00	354	205	4
43.00	359	210	4
44.00	359	210	4
45.00	359	210	4
46.00	364	215	4
47.00	364	215	4
48.00	369	220	4
49.00	369	220	4
50.00	369	220	4

MLDH26 Mors Konik Saplı Uzun Matkap Ucu

Mat.: HSS DIN341



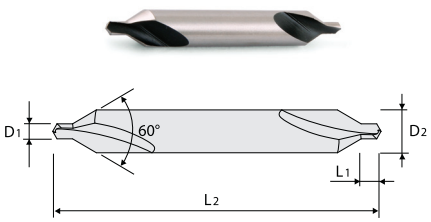


Sipariş Örneği MLDH26/D

D1	L2	L1	M.Konik
12.00	215	134	1
12.50	215	134	1
13.00	215	134	1
13.50	223	142	1
14.00	223	142	1
14.50	245	147	2
15.00	245	147	2
16.00	251	153	2
17.00	257	159	2
18.00	263	165	2
19.00	269	171	2
20.00	275	177	2
21.00	282	184	2
22.00	289	191	2
23.00	296	198	2
24.00	327	206	3
25.00	327	206	3
26.00	335	214	3
27.00	343	222	3
28.00	343	222	3
29.00	351	230	3
30.00	351	230	3
31.00	360	239	3
32.00	397	248	4
33.00	397	248	4
34.00	406	257	4
35.00	406	257	4
36.00	416	267	4
37.00	416	267	4
38.00	426	277	4
39.00	426	277	4
40.00	426	277	4
41.00	436	287	4
42.00	436	287	4
43.00	447	298	4
44.00	447	298	4
45.00	447	298	4
46.00	459	310	4
47.00	459	310	4
48.00	470	321	4
49.00	470	321	4
50.00	470	321	4

MLDH28 Punta Matkabı

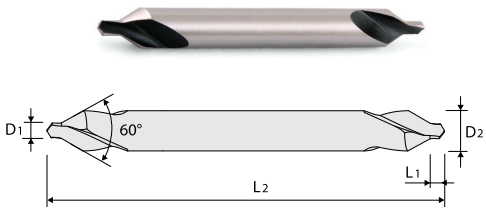
Mat.: HSS DIN333/A



Sipariş Kodu	D1	D2	L1	L2
MLDH28/100	1.00	3.15	1.3	31.5
MLDH28/110	1.25	3.15	1.6	31.5
MLDH28/120	1.60	4.00	2.0	35.5
MLDH28/130	2.00	5.00	2.5	40.0
MLDH28/140	2.50	6.30	3.1	45.0
MLDH28/150	3.15	8.00	3.9	50.0
MLDH28/160	4.00	10.00	5.0	56.0
MLDH28/170	5.00	12.50	6.3	63.0
MLDH28/180	6.30	16.00	8.0	71.0
MLDH28/190	8.00	20.00	10.1	80.0
MLDH28/200	10.00	25.00	12.8	100.0
MLDH28/210	12.00	31.50	16.5	125.0

MLDH29 Uzun Punta Matkabı

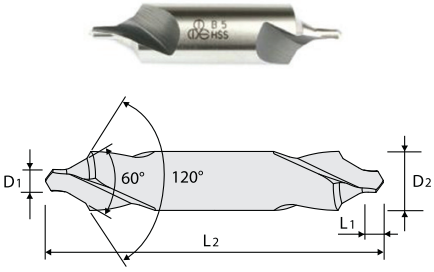
Mat.: HSS DIN333/A



Sipariş Kodu	D1	D2	L1	L2
MLDH29/100	2.00	5.00	2.5	76
MLDH29/110	2.50	6.30	3.1	102
MLDH29/120	3.15	8.00	3.9	102
MLDH29/130	4.00	10.00	5.0	127
MLDH29/140	5.00	12.50	6.3	127

MLDH30 Punta Matkabı Form B

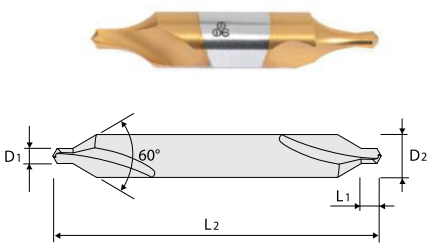
Mat.: HSS DIN333/B



Sipariş Kodu	D1	D2	D3	L1	L2
MLDH30/100	1.00	4.0	2.12	1.3	35.5
MLDH30/110	1.25	5.0	2.65	1.6	40.0
MLDH30/120	1.60	6.3	3.35	2.0	45.0
MLDH30/130	2.00	8.0	4.25	2.5	50.0
MLDH30/140	2.50	10.0	5.30	3.1	56.0
MLDH30/150	3.15	11.2	6.70	3.9	60.0
MLDH30/160	4.00	14.0	8.50	5.0	67.0
MLDH30/170	5.00	18.0	10.6	6.3	75.0
MLDH30/180	6.30	20.0	13.2	8.0	80.0
MLDH30/190	8.00	25.0	17.0	10.1	100.0
MLDH30/200	10.00	31.5	21.2	12.8	125.0

MLDH31 Punta Matkabı TIN Kaplı

Mat.: HSS DIN333/A

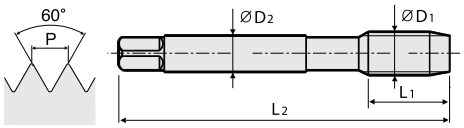


Sipariş Kodu	D1	D2	L1	L2
MLDH31/100	1.00	3.15	1.3	31.5
MLDH31/110	1.25	3.15	1.6	31.5
MLDH31/120	1.60	4.00	2.0	35.5
MLDH31/130	2.00	5.00	2.5	40.0
MLDH31/140	2.50	6.30	3.1	45.0
MLDH31/150	3.15	8.00	3.9	50.0
MLDH31/160	4.00	10.00	5.0	56.0
MLDH31/170	5.00	12.50	6.3	63.0
MLDH31/180	6.30	16.00	8.0	71.0
MLDH31/190	8.00	20.00	10.1	80.0
MLDH31/200	10.00	25.00	12.8	100.0
MLDH31/210	12.00	31.50	16.5	125.0

MLDH32 Metrik Normal Vidalı 3lü Takım Klavuzu

Mat.: HSS DIN352



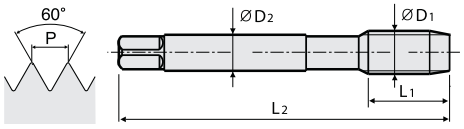


Sipariş Kodu	D1	P	L2	L1	D2
MLDH32/100	M2	0.4	40	8	2.8
MLDH32/110	M2.5	0.45	40	9	2.8
MLDH32/120	M3	0.5	40	11	3.5
MLDH32/130	M3.5	0.6	45	13	4.0
MLDH32/140	M4	0.7	45	13	4.5
MLDH32/150	M4.5	0.75	50	16	6.0
MLDH32/160	M5	0.8	50	16	6.0
MLDH32/170	M6	1	50	19	6.0
MLDH32/180	M7	1	50	19	6.0
MLDH32/190	M8	1.25	56	22	6.0
MLDH32/200	M9	1.25	63	22	7.0
MLDH32/210	M10	1.5	70	24	7.0
MLDH32/220	M11	1.5	70	24	8.0
MLDH32/230	M12	1.75	75	29	9.0
MLDH32/240	M14	2	80	30	11.0
MLDH32/250	M16	2	80	32	12.0
MLDH32/260	M18	2.5	95	40	14.0
MLDH32/270	M20	2.5	95	40	16.0
MLDH32/280	M22	2.5	100	40	18.0
MLDH32/290	M24	3	110	50	18.0
MLDH32/300	M27	3	110	50	20.0
MLDH32/310	M30	3.5	125	56	22.0
MLDH32/320	M33	3.5	125	56	25.0
MLDH32/330	M36	4	150	63	28.0
MLDH32/340	M39	4	150	63	32.0
MLDH32/350	M42	4.5	150	63	32.0
MLDH32/360	M45	4.5	160	70	36.0
MLDH32/370	M48	5	180	75	36.0

MLDH33 Metrik Normal Vidalı 3lü Takım Klavuzu Sert Malzeme

Mat.: HSS-E DIN352



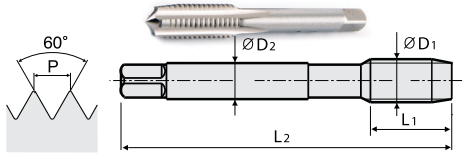


Sipariş Kodu	D1	P	L2	L1	D2
MLDH33/100	M3	0.5	40	11	3.5
MLDH33/110	M4	0.7	45	13	4.5
MLDH33/120	M5	0.8	50	16	6.0
MLDH33/130	M6	1.0	50	19	6.0
MLDH33/140	M8	1.25	56	22	6.0
MLDH33/150	M10	1.50	70	24	7.0
MLDH33/160	M12	1.75	75	29	9.0

MLDH34 Whitwort Normal Vidalı 3'lü Makina Kılavuzu BSW

Mat.: HSS-E DIN351



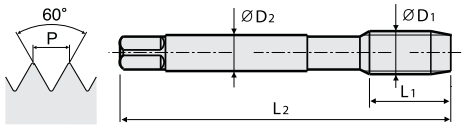


Sipariş Kodu	D1 BSW	P inch	L2 mm	L1 mm	D2 mm
MLDH34/100	W 1/8"	40	40	11	2.7
MLDH34/110	W 5/32"	32	45	13	3.4
MLDH34/120	W 3/16"	24	50	16	4.9
MLDH34/130	W 7/32"	24	50	16	4.9
MLDH34/140	W 1/4"	20	50	19	4.9
MLDH34/150	W 5/16"	18	56	22	4.9
MLDH34/160	W 3/8"	16	70	24	5.5
MLDH34/170	W 7/16"	14	70	24	6.2
MLDH34/180	W 1/2"	12	75	29	7.0
MLDH34/190	W 9/16"	12	80	30	9.0
MLDH34/200	W 5/8"	11	80	32	9.0
MLDH34/210	W 3/4"	10	95	40	11.0
MLDH34/220	W 7/8"	9	100	40	14.5
MLDH34/230	W 1"	8	110	50	16.0
MLDH34/240	W 1 1/4"	7	125	56	20.0
MLDH34/250	W 1 1/2"	6	150	63	24.0
MLDH34/260	W 1 3/4"	5	160	70	29.0
MLDH34/270	W 2"	4 1/2	180	75	32.0

MLDH35 Boru Vidalı 2'li Makina Kılavuzu

Mat.: HSS-E DIN5157



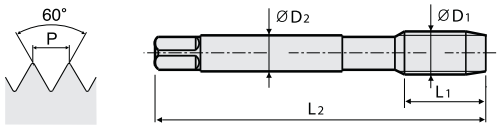


Sipariş Kodu	D1 BSW	P inch	L1 mm	L2 mm	D2 mm
MLDH35/100	G1/8"	28	63	18	7
MLDH35/110	G1/4"	19	63	20	11
MLDH35/120	G3/8"	19	70	20	12
MLDH35/130	G1/2"	14	80	22	16
MLDH35/140	G3/4"	14	100	28	20
MLDH35/150	G1"	14	110	32	25
MLDH35/160	G1 1/4"	14	125	32	32
MLDH35/170	G1 1/2"	11	140	32	36
MLDH35/180	G1 3/4"	11	160	36	36
MLDH35/190	G 2"	11	160	36	36
MLDH35/200	G2 1/4"	11	160	40	50
MLDH35/210	G2 1/2"	11	160	40	50
MLDH35/220	G2 3/4"	11	160	40	50
MLDH35/230	G 3"	11	160	40	50
MLDH35/240	G3 1/2"	11	180	45	56
MLDH35/250	G4"	11	180	45	56

MLDH36 Metrik İnce Diş 2li Takım Kılavuzu

Mat.: HSS DIN352





Sipariş Örneği MLDH36/D1

D1 x P	L2	L1	D2
M2.5x0.35	40	9	2.8
M2.6x0.35	40	9	2.8
M3x0.35	40	9	3.5
M3.5x0.35	45	10	4.0
M4x0.35	45	10	4.5
M4x0.5	45	10	4.5
M4.5x0.5	50	12	6.0
M5x0.5	50	12	6.0
M5x0.75	50	12	6.0
M5.5x0.5	50	12	6.0
M6x0.5	50	14	6.0
M6x0.75	50	14	6.0
M7x0.5	50	14	6.0
M7x0.75	50	14	6.0
M8x0.5	50	19	6.0
M8x0.75	50	19	6.0
M8x1.0	56	22	6.0
M9x0.5	56	19	7.0
M9x0.75	56	19	7.0
M9x1.0	63	20	7.0
M10x0.5	63	20	7.0
M10x0.75	63	20	7.0
M10x1.0	63	20	7.0
M10x1.25	70	24	7.0
M11x0.75	63	20	8.0
M11x1.0	63	20	8.0
M11x1.25	63	22	8.0
M12x0.5	70	22	9.0
M12x0.75	70	22	9.0
M12x1.0	70	22	9.0
M12x1.25	70	22	9.0
M12x1.5	70	22	9.0
M13x0.5	70	22	11.0
M13x0.75	70	22	11.0
M13x1.0	70	22	11.0
M13x1.5	70	22	11.0
M14x0.5	70	22	11.0
M14x0.75	70	22	11.0
M14x1.0	70	22	11.0
M14x1.25	70	22	11.0
M14x1.5	70	22	11.0
M15x0.75	70	22	12.0
M15x1.0	70	22	12.0
M15x1.5	70	22	12.0
M16x0.5	70	22	12.0
M16x0.75	70	22	12.0
M16x1.0	70	22	12.0
M16x1.25	70	22	12.0
M16x1.5	70	22	12.0
M17x1.0	70	22	12.0
M17x1.5	70	22	12.0
M18x0.5	80	22	14.0
M18x0.75	80	22	14.0
M18x1.0	80	22	14.0
M18x1.25	80	22	14.0
M18x1.5	80	22	14.0
M18x2.0	80	22	14.0
M19x1.0	80	22	16.0
M19x1.5	80	22	14.0
M20x0.5	80	22	16.0
M20x0.75	80	22	16.0
M20x1.0	80	22	16.0
M20x1.25	80	22	16.0
M20x1.5	80	22	16.0

D1 x P	L2	L1	D2
M20x2.0	80	22	16.0
M21x1.0	80	22	16.0
M21x1.5	80	22	16.0
M22x0.5	80	22	18.0
M22x0.75	80	22	18.0
M22x1.0	80	22	18.0
M22x1.25	80	22	18.0
M22x1.5	80	22	18.0
M22x2.0	80	22	18.0
M23x1.0	80	22	18.0
M23x1.5	80	22	18.0
M24x0.5	90	22	18.0
M24x0.75	90	22	18.0
M24x1.0	90	22	18.0
M24x1.25	90	22	18.0
M24x1.5	90	22	18.0
M24x2.0	90	22	18.0
M25x1.0	90	22	18.0
M25x1.5	90	22	18.0
M26x1.0	90	22	18.0
M26x1.5	90	22	18.0
M26x2.0	90	22	18.0
M27x1.0	90	22	20.0
M27x1.5	90	22	20.0
M27x2.0	90	22	20.0
M28x1.0	90	22	20.0
M28x1.5	90	22	20.0
M28x2.0	90	22	20.0
M29x1.5	90	22	22.0
M30x1.0	90	22	22.0
M30x1.5	90	22	22.0
M30x2.0	90	22	22.0
M30x2.5	125	56	22.0
M30x3.0	125	56	22.0
M32x1.0	90	22	22.0
M32x1.5	90	22	22.0
M32x2.0	90	22	22.0
M32x3.0	125	56	22.0
M33x1.5	100	25	25.0
M33x2.0	100	25	25.0
M33x3.0	125	56	25.0
M34x1.0	100	25	28.0
M34x1.5	100	25	28.0
M34x2.0	125	40	28.0
M35x1.0	100	25	28.0
M35x1.5	100	25	28.0
M35x2.0	125	40	28.0
M36x1.0	100	25	28.0
M36x1.5	100	25	28.0
M36x2.0	125	40	28.0
M36x3.0	125	40	28.0
M37x1.5	100	25	28.0
M38x1.0	100	25	28.0
M38x1.5	100	25	28.0
M38x2.0	125	40	28.0
M38x3.0	125	40	28.0
M39x1.5	110	25	32.0
M39x2.0	125	40	32.0
M39x3.0	125	40	32.0
M40x1.0	110	25	32.0
M40x1.5	110	25	32.0
M40x2.0	125	40	32.0
M40x3.0	125	40	32.0
M42x1.0	110	25	32.0

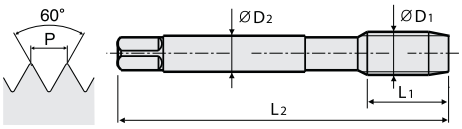
D1 x P	L2	L1	D2
M42x1.5	110	25	32.0
M42x2.0	125	40	32.0
M42x3.0	125	40	32.0
M44x1.5	110	25	36.0
M44x2.0	125	40	36.0
M45x1.0	110	25	36.0
M45x1.5	110	25	36.0
M45x2.0	125	40	36.0
M45x3.0	125	40	36.0
M46x1.5	140	40	36.0
M48x1.0	140	40	36.0
M48x1.5	140	40	36.0
M48x2.0	140	40	36.0
M48x3.0	140	40	36.0
M50x1.5	140	40	36.0
M50x2.0	140	40	36.0
M50x3.0	140	40	36.0
M52x1.5	140	40	40.0
M52x2.0	140	40	40.0
M52x3.0	140	40	40
M54x1.0	140	32	40
M54x1.5	140	32	40
M54x2.0	140	36	40
M54x3.0	140	40	40
M54x4.0	140	50	40
M55x1.5	140	32	40
M55x2.0	140	36	40
M55x3.0	140	40	40
M55x4.0	180	50	40
M56x1.0	140	32	40
M56x1.5	140	32	40
M56x2.0	140	36	40
M56x3.0	140	40	40
M56x4.0	180	50	40
M58x1.0	160	32	45
M58x1.5	160	32	45
M58x2.0	160	36	45
M58x3.0	160	40	45
M58x4.0	200	55	45
M60x1.5	160	34	45
M60x2.0	160	36	45
M60x3.0	160	40	45
M60x4.0	200	55	45
M62x1.5	160	34	50
M62x2.0	160	36	50
M62x3.0	180	45	50
M62x4.0	220	55	50
M63x1.5	160	32	50
M64x1.5	160	34	50
M64x2.0	160	36	50
M64x3.0	180	45	50
M64x4.0	220	60	50
M65x1.5	160	34	50
M65x2.0	160	36	50
M65x3.0	180	45	50
M65x4.0	220	60	50
M68x1.5	160	36	50
M68x2.0	160	40	50
M68x3.0	180	50	50
M68x4.0	220	60	50
M70x1.5	160	36	50
M70x2.0	160	40	50
M70x3.0	200	50	50
M70x4.0	240	60	50

D1 x P	L2	L1	D2
M72x1.5	160	36	50
M72x2.0	160	40	50
M72x3.0	200	50	50
M72x4.0	240	60	50
M74x1.5	160	36	50
M74x2.0	160	40	50
M74x3.0	200	50	50
M74x4.0	240	60	50
M75x1.5	160	36	50
M75x2.0	160	40	50
M75x3.0	200	50	50
M75x4.0	240	60	50
M76x1.5	160	36	50
M76x2.0	160	40	50
M76x3.0	220	50	50
M76x4.0	260	60	50
M78x1.5	160	36	50
M78x2.0	160	40	50
M78x3.0	220	55	50
M78x4.0	260	65	50
M80x1.5	160	36	50
M80x2.0	160	40	50
M80x3.0	220	55	50
M80x4.0	260	65	50
M82x1.5	160	36	50
M82x2.0	160	40	50
M82x3.0	220	55	50
M82x4.0	260	65	50
M84x1.5	160	36	50
M84x2.0	160	40	50
M84x3.0	220	55	50
M84x4.0	260	65	50
M85x1.5	160	36	50
M85x2.0	160	40	50
M85x3.0	220	55	50
M85x4.0	260	65	50

MLDH37 Metrik Normal Vidalı Düz Kanallı Makina Kılavuzu

Mat.: HSS-E DIN371/C





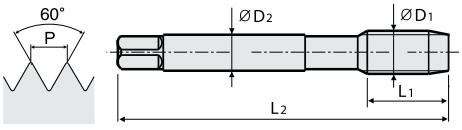
Sipariş Örneği MLDH37/Tip/D1

D1 mm	P adım	L1 mm	D2 mm
M3	0.5	56	3.5
M3.5	0.6	56	4
M4	0.7	63	4.5
M5	0.8	70	6
M6	1	80	6
M8	1.25	90	8
M10	1.5	100	10
M12	1.75	110	12

MLDH38 Metrik Eğik Ağız Bilemeli Makina Kılavuzu

Mat.: HSS-E DIN371/B





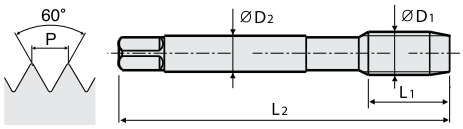
Sipariş Örneği MLDH38/Tip/D1

D1 mm	P adım	L1 mm	D2 mm
M3	0.5	56	3.5
M4	0.7	63	4.5
M5	0.8	70	6
M6	1	80	6
M8	1.25	90	8
M10	1.5	100	10
M12	1.75	110	12

MLDH39 Metrik Mormal Vidalı Kanallı Makina Kılavuzu

Mat.: HSS-E DIN371/C





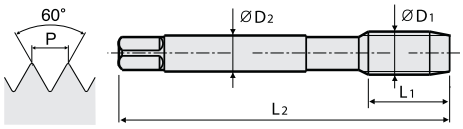
Sipariş Örneği MLDH39/Tip/D1

D1 mm	P adım	L1 mm	D2 mm
M3	0.5	56	3.5
M4	0.7	63	4.5
M5	0.8	70	6
M6	1	80	6
M8	1.25	90	8
M10	1.5	100	10
M12	1.75	110	12

MLDH40 Helis ve Düz Kanallı Makina Kılavuzu Sert Malzeme

Mat.: HSS-E DIN371/C
DIN376/C





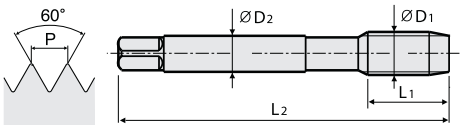
Sipariş Örneği MLDH340/Tip/D1

D1 mm	P adım	L1 mm	D2 mm
M3	0.5	56	3.5
M4	0.7	63	4.5
M5	0.8	70	6
M6	1	80	6
M8	1.25	90	8
M10	1.5	100	10
M12	1.75	110	9
M14	2	110	11
M16	2	110	12
M18	2.5	125	14
M20	2.5	140	16

MLDH41 Düz Kanallı Makina Kılavuzu

Mat.: HSS-E DIN376/C





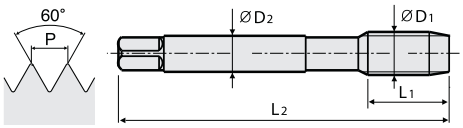
Sipariş Örneği MLDH41/Tip/D1

D1 mm	P adım	L1 mm	D2 mm
M3	0.5	56	2.2
M4	0.7	63	2.8
M5	0.8	70	3.5
M6	1	80	4.5
M8	1.25	90	6
M9	1.25	90	7
M10	1.5	100	7
M11	1.5	100	8
M12	1.75	110	9
M14	2	110	11
M16	2	110	12
M18	2.5	125	14
M20	2.5	140	16
M22	2.5	140	18
M24	3	160	18
M27	3	160	20
M30	3.5	180	22

MLDH42 Helis Kanallı Makina Kılavuzu

Mat.: HSS-E DIN376/C



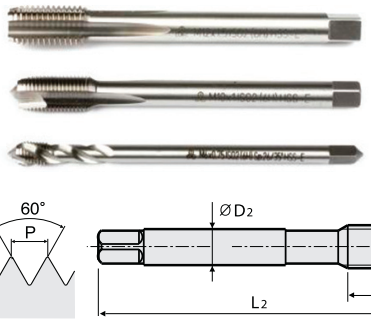


Sipariş Örneği MLDH42/Tip/D1

D1 mm	P adım	L1 mm	D2 mm
M3	0.5	2.2	56
M4	0.7	2.8	63
M5	0.8	3.5	70
M6	1	4.5	80
M8	1.25	6	90
M9	1.25	7	90
M10	1.5	7	100
M11	1.5	8	100
M12	1.75	9	110
M14	2	11	110
M16	2	12	110
M18	2.5	14	125
M20	2.5	16	140
M22	2.5	18	140
M24	3	18	160
M27	3	20	160
M30	3.5	22	180

MLDH43 Metrik İnce Diş Düz Kanallı Makina Kılavuzu

Mat.: HSS-E DIN374/C

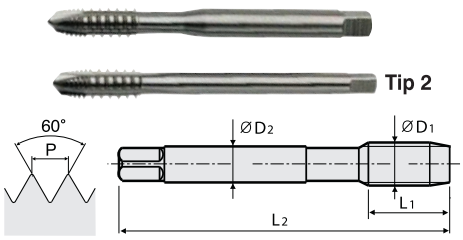


Sipariş Örneği MLDH43/Tip/D1

D1 mm	P adım	L1 mm	D2 mm
M6	0.75	80	4.5
M8	1	90	6.0
M10	1	90	7.0
M10	1.25	90	7.0
M12	1	100	9.0
M12	1.25	100	9.0
M12	1.5	100	9.0
M14	1	100	11.0
M14	1.25	100	11.0
M14	1.5	100	11.0
M16	1.5	100	12.0
M18	1.5	110	14.0
M20	1.5	125	16.0
M22	1.5	125	18.0
M24	1.5	140	18.0

MLDH44 Atlamalı Diş Makina Kılavuzları

Mat.: HSS-E DIN371/C DIN376/C

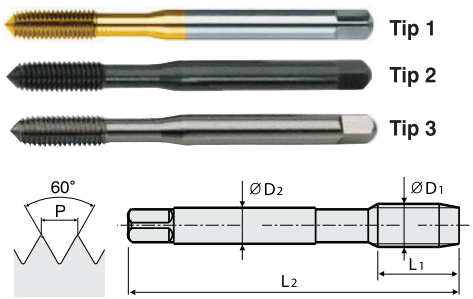


Sipariş Örneği MLDH44/Tip/D1

D1 mm	P adım	L1 mm	D2 mm
M3	0.5	56	3.5
M4	0.7	63	4.5
M5	0.8	70	6
M6	1	80	6
M8	1.25	90	8
M10	1.5	100	10
M3	0.5	56	2.2
M4	0.7	63	2.8
M5	0.8	70	3.5
M6	1	80	4.5
M8	1.25	90	6
M10	1.5	100	7
M12	1.75	110	9
M14	2	110	11
M16	2	110	12

MLDH45 Metrik Normal Vidalı Ovalama Kılavuzları

Mat.: HSS-E DIN371/C DIN376/C

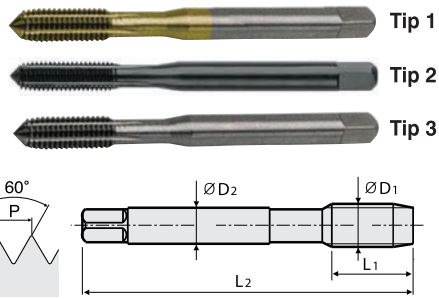


Sipariş Örneği MLDH45/Tip/D1

D1 mm	P mm	L1 mm	D2 mm	Matkap Ucu Çapı mm
M3	0.5	56	3.5	2.80
M4	0.7	63	4.5	3.70
M5	0.8	70	6	4.65
M6	1	80	6	5.55
M8	1.25	90	8	7.45
M10	1.5	100	10	9.30
M12	1.75	110	9	11.20
M14	2	110	11	13.0
M16	2	110	12	15.1

MLDH46 Metrik Normal Vidalı Oluklu Ovalama Kılavuzları

Mat.: HSS-E DIN371/C DIN376/C

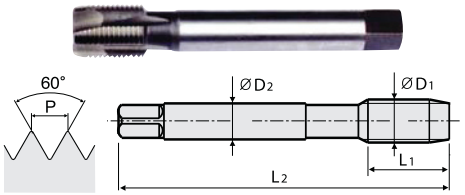


Sipariş Örneği MLDH46/Tip/D1

D1 mm	P mm	L1 mm	D2 mm	Matkap Ucu Çapı mm
M3	0.5	56	3.5	2.80
M4	0.7	63	4.5	3.70
M5	0.8	70	6	4.65
M6	1	80	6	5.55
M8	1.25	90	8	7.45
M10	1.5	100	10	9.30
M12	1.75	110	9	11.20
M14	2	110	11	13.0
M16	2	110	12	15.1

MLDH47 Boru Vidalı Eğik Ağız Makina Kılavuzu

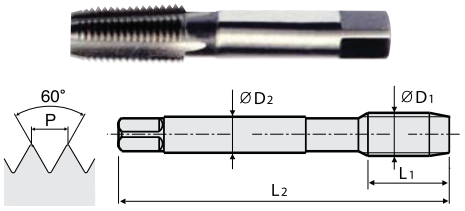
Mat.: HSS DIN5156/B



Sipariş Kodu	D1 BSW	P inch	L1 mm	L2 mm	D2 mm
MLDH47/100	G1/8”	28	90	20	7
MLDH47/110	G1/4”	19	100	22	11
MLDH47/120	G3/8”	19	100	22	12
MLDH47/130	G1/2”	14	125	25	16
MLDH47/140	G5/8”	14	125	25	18
MLDH47/150	G3/4”	14	140	28	20
MLDH47/160	G7/8”	14	150	28	22
MLDH47/170	G1”	11	160	30	25
MLDH47/180	G1 1/8”	11	170	30	28
MLDH47/190	G1 1/4”	11	170	30	32
MLDH47/200	G1 3/8”	11	180	32	36
MLDH47/210	G1 1/2”	11	190	32	36
MLDH47/220	G1 3/4”	11	190	32	40
MLDH47/230	G2”	11	220	40	45

MLDH49 1/16 NPT Konik Boru Kılavuzu

Mat.: HSS NPT



Sipariş Kodu	D1 NPT	P inch	L1 mm	L2 mm	D2 mm
MLDH49/100	1/8”	27	54	19	7
MLDH49/110	1/4”	18	62	27	11
MLDH49/120	3/8”	18	65	27	12
MLDH49/130	1/2”	14	80	35	16
MLDH49/140	3/4”	14	83	35	20

MLDH51 Matkap Kılavuz Kombine Takım

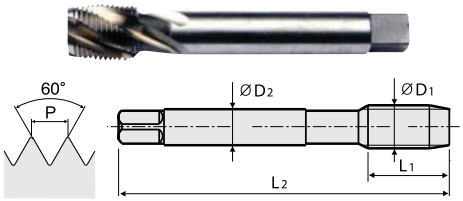
Mat.: HSS-E DIN376/B



Sipariş Kodu	D1 mm	P adım	D2 mm	L1 mm
MLDH51/100	M3	0.5	3.0	56
MLDH51/110	M4	0.7	4.5	63
MLDH51/120	M5	0.8	6.0	71
MLDH51/130	M6	1	6.0	80
MLDH51/140	M8	1.25	6.0	95
MLDH51/150	M10	1.5	9.0	106
MLDH51/160	M12	1.75	12.0	115

MLDH48 Boru Vidalı Helis Kanallı Makina Kılavuzu

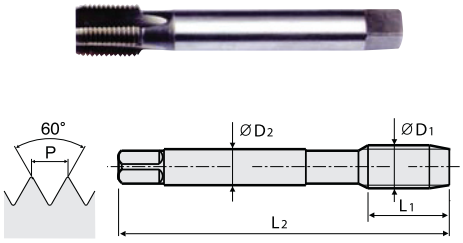
Mat.: HSS-E DIN5156/C



Sipariş Kodu	D1 BSW	P inch	L1 mm	L2 mm	D2 mm
MLDH48/100	G1/8”	28	90	20	7
MLDH48/110	G1/4”	19	100	22	11
MLDH48/120	G3/8”	19	100	22	12
MLDH48/130	G1/2”	14	125	25	16
MLDH48/140	G5/8”	14	125	25	18
MLDH48/150	G3/4”	14	140	28	20
MLDH48/160	G7/8”	14	150	28	22
MLDH48/170	G1”	11	160	30	25
MLDH48/180	G1 1/8”	11	170	30	28
MLDH48/190	G1 1/4”	11	170	30	32
MLDH48/200	G1 3/8”	11	180	32	36
MLDH48/210	G1 1/2”	11	190	32	36
MLDH48/220	G1 3/4”	11	190	32	40
MLDH48/230	G2”	11	220	40	45

MLDH50 Boru Vidalı Düz Kanallı Makina Kılavuzu

Mat.: HSS-E DIN5156/C



Sipariş Kodu	D1 BSW	P inch	L1 mm	L2 mm	D2 mm
MLDH50/100	G1/8”	28	90	20	7
MLDH50/110	G1/4”	19	100	22	11
MLDH50/120	G3/8”	19	100	22	12
MLDH50/130	G1/2”	14	125	25	16
MLDH50/140	G5/8”	14	125	25	18
MLDH50/150	G3/4”	14	140	28	20
MLDH50/160	G7/8”	14	150	28	22
MLDH50/170	G1”	11	160	30	25
MLDH50/180	G1 1/8”	11	170	30	28
MLDH50/190	G1 1/4”	11	170	30	32
MLDH50/200	G1 3/8”	11	180	32	36
MLDH50/210	G1 1/2”	11	190	32	36
MLDH50/220	G1 3/4”	11	190	32	40
MLDH50/230	G2”	11	220	40	45

MLDH52 Ters Kılavuz Takımı

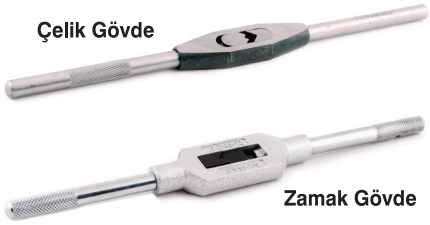


Sipariş Örneği | MLDH52/Takım Adeti

5li Takım	8li Takım	
3	3	24/24
6/6	6/6	33/33
8/8	8/8	45
11/11	11/11	
14/14	14/14	
18	18/18	

V13000 V14000 Ayarlanabilir Kılavuz Kolları

Mat.: HSS DIN352



Sipariş Kodu Çelik	Sipariş Kodu Zamak	No	Ölçü	Boy
V-13000	V-14000	0	M1-8	130
V-13010	V-14010	1	M1-10	176
V-13015	V-14015	1.1/2	M1-12	176
V-13020	V-14020	2	M4-12	280
V-13030	V-14030	3	M5-20	380
V-13040	V-14040	4	M11-27	505
V-13050	V-14050	5	M13-32	700
-	V-14060	6	M18-42	1000
-	V-14070	7	M25-52	1250
-	V-14080	8	M25-64	1250

V14 Kılavuz Uzatmaları

Mat.: HSS DIN377



Sipariş Kodu	Uç Ölçü	Boy	DIN352 için
V-14521	2.1	60	M1 -2.6
V-14527	2.7	80	M3
V-14530	3.0	90	M3.5
V-14534	3.4	95	M4
V-14549	4.9	110	M4.5-8
V-14555	5.5	115	M9-10
V-14562	6.2	120	M11
V-14570	7.0	125	M12
V-14590	9.0	130	M14-16
V-14611	11.0	150	M18
V-14612	12.0	155	M20
V-14614	14.5	175	M22-24
V-14616	16.0	180	M27
V-14618	18.0	200	M30
V-14620	20.0	220	M33
V-14622	22.0	220	M36
V-14624	24.0	235	M39-42
V-14629	29.0	265	M45-48
V-14632	32.0	285	M52

V10 Cırcırlı Kılavuz Kolları

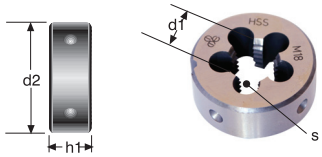
Mat.: HSS DIN352



Sipariş Kodu	Sipariş Kodu	No	Ölçü	Boy
V-10001	C-341-10	1	M3-10	85
V-10002	C-341-20	2	M5-12	100
V-10010	C-341-100	10	M3-10	250
V-10020	C-341-200	20	M5-12	300

MLDH56 Metrik Normal Vidalı Pafta Lokması

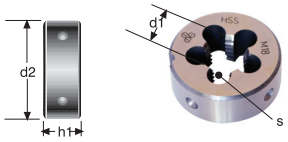
Mat.: HSS DIN232/B



Sipariş Kodu	d1	P	d2	h1
MLDH56/100	M2	0.4	16	5
MLDH56/110	M2.5	0.45	16	5
MLDH56/120	M3	0.5	20	5
MLDH56/130	M3.5	0.6	20	5
MLDH56/140	M4	0.7	20	5
MLDH56/150	M5	0.8	20	7
MLDH56/160	M6	1	20	7
MLDH56/170	M7	1	25	9
MLDH56/180	M8	1.25	25	9
MLDH56/190	M9	1.25	25	9
MLDH56/200	M10	1.5	30	11
MLDH56/210	M12	1.75	38	14
MLDH56/220	M14	2	38	14
MLDH56/230	M16	2	45	18
MLDH56/240	M18	2.5	45	18
MLDH56/250	M20	2.5	45	18
MLDH56/260	M22	2.5	55	22
MLDH56/270	M24	3	55	22
MLDH56/280	M27	3	65	25
MLDH56/290	M30	3.5	65	25

MLDH58 Withwort Boru Vidalı Pafta Lokması

Mat.: HSS DIN232/B



Sipariş Kodu	d1	P	d2	h1
MLDH58/100	G1/8”	28	38	10
MLDH58/110	G1/4”	19	38	10
MLDH58/120	G3/8”	19	45	14
MLDH58/130	G1/2”	14	45	14
MLDH58/140	G3/4”	14	65	18
MLDH58/150	G1”	11	65	18
MLDH58/160	G1 1/4”	11	75	20
MLDH58/170	G1 1/2”	11	90	22
MLDH58/180	G1 3/4”	11	105	22
MLDH58/190	G 2”	11	105	22

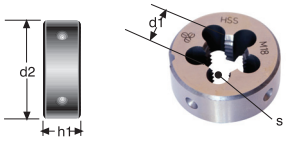
MLDH61 Çelik Gövde Pafta Kolu



Sipariş Kodu	Kapasite	Ø x h
MLDH61/100	3 - 4	20x5
MLDH61/110	4.5 - 6	50x7
MLDH61/120	7 - 9	25x9
MLDH61/130	10 - 11	30x11
MLDH61/140	12 - 14	38x14
MLDH61/150	16 - 20	45x18

MLDH57 Metrik Normal Vidalı İnce Diş Pafta Lokması

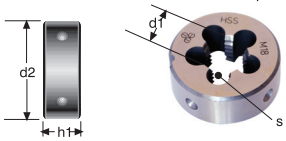
Mat.: HSS DIN232/B



Sipariş Kodu	d1	P	d2	h1
MLDH57/100	M6	0.75	20	5
MLDH57/110	M8	1	25	9
MLDH57/120	M10	1	30	11
MLDH57/130	M10	1.25	30	11
MLDH57/140	M12	1	38	10
MLDH57/150	M12	1.25	38	10
MLDH57/160	M12	1.5	38	10
MLDH57/170	M14	1	38	10
MLDH57/180	M14	1.25	38	10
MLDH57/190	M14	1.5	38	10
MLDH57/200	M16	1	45	14
MLDH57/210	M16	1.5	45	14
MLDH57/220	M18	1.5	45	14
MLDH57/230	M20	1.5	45	14
MLDH57/240	M22	1.5	55	16
MLDH57/250	M24	1.5	55	16
MLDH57/260	M30	1.5	65	18

MLDH59 NPT1/16 Konik Vidalı Pafta Lokması

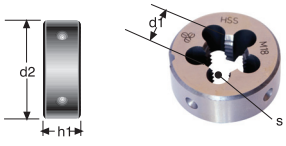
Mat.: HSS DIN232/B



Sipariş Kodu	d1	P	d2	h1
MLDH59/100	1/8”	27	38	10
MLDH59/110	1/4”	18	38	10
MLDH59/120	3/8”	18	45	15
MLDH59/130	1/2”	14	45	15
MLDH59/140	3/4”	14	65	19
MLDH59/150	1”	11 1/2	5	25

MLDH63 Metrik Normal Vidalı İnce Diş Pafta Lokması

Mat.: HSS DIN232/B



Sipariş Kodu	d1	P	d2	h1
MLDH63/100	W 1/8”	40	20	5
MLDH63/110	W 5/32”	32	20	7
MLDH63/120	W 3/16”	24	20	7
MLDH63/130	W 1/4”	20	25	9
MLDH63/140	W 5/16”	18	25	9
MLDH63/150	W 3/8”	16	30	11
MLDH63/160	W 7/16”	14	30	11
MLDH63/170	W 1/2”	12	38	14
MLDH63/180	W 9/16”	12	38	14
MLDH63/190	W 5/8”	11	45	18
MLDH63/200	W 3/4”	10	45	18
MLDH63/210	W 7/8”	9	55	22
MLDH63/220	W 1”	8	55	22
MLDH63/230	W 1 1/2”	6	75	30

MLDH60 Silindir Saplı Parmak Freze Kısa

Mat.: HSS-E DIN844



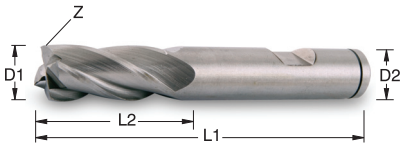
Sipariş MLDH60-M/D1 **MTE Seri**

Sipariş MLDH60-C/D1 **Çin Seri**

D1	D2	L1	L2	z
2.0	6	51	7	3
2.5	6	52	8	3
3.0	6	52	8	3
4.0	6	55	11	4
5.0	6	57	13	4
6.0	6	57	13	4
7.0	10	66	16	4
8.0	10	69	19	4
9.0	10	69	19	4
10.0	10	72	22	4
11.0	12	79	22	4
12.0	12	83	26	4
13.0	12	83	26	4
14.0	12	83	26	4
15.0	12	83	26	4
16.0	16	92	32	4
17.0	16	92	32	4
18.0	16	92	32	4
19.0	16	92	32	4
20.0	20	104	38	4
22.0	20	104	38	5
24.0	25	121	45	5
25.0	25	121	45	5
26.0	25	121	45	5
28.0	25	121	45	5
30.0	25	121	45	5
32.0	32	133	53	6
34.0	32	133	53	6
36.0	32	133	53	6
38.0	40	155	63	6
40.0	40	155	63	6

MLDH62 Silindir Saplı Parmak Freze Uzun

Mat.: HSS-E DIN844



Sipariş MLDH62-M/D1 **MTE Seri**

Sipariş MLDH62-C/D1 **Çin Seri**

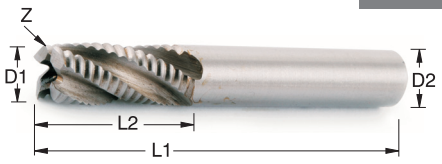
D1	D2	L1	L2	z
3	6	56	12	4
4	6	63	19	4
5	6	68	24	4
6	6	68	24	4
8	10	88	38	4
10	10	95	45	4
12	12	110	53	4
14	12	110	53	4
16	16	123	63	4
18	16	123	63	4
20	20	141	75	4
22	20	141	75	4
24	25	166	90	4
25	25	166	90	5
26	25	166	90	5
28	25	166	90	5
30	25	166	90	6
32	32	186	106	6

MLDH64 Silindir Saplı Parmak Freze Kısa Kaba Talaş

Mat.: HSS-E DIN844

Sipariş MLDH64-M/D1 **MTE Seri**

Sipariş MLDH64-C/D1 **Çin Seri**



D1	D2	L1	L2	z
8.0	10	69	19	4
10.0	10	72	22	4
12.0	12	83	26	4
14.0	12	83	26	4
16.0	16	92	32	4
18.0	16	92	32	4
20.0	20	104	38	4
22.0	20	104	38	5
24.0	25	121	45	5
25.0	25	121	45	5
26.0	25	121	45	5
28.0	25	121	45	5
30.0	25	121	45	5
32.0	32	133	53	6

MLDH66 Silindir Saplı Parmak Freze Uzun Kaba Talaş

Mat.: HSS-E DIN844

Sipariş MLDH66-M/D1 **MTE Seri**

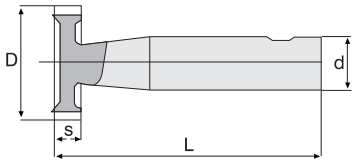
Sipariş MLDH66-C/D1 **Çin Seri**

D1	D2	L1	L2	z
10	10	95	45	4
12	12	110	53	4
14	12	110	53	4
16	16	123	63	4
18	16	123	63	4
20	20	141	75	4
22	20	141	75	4
24	25	166	90	4
25	25	166	90	5
26	25	166	90	5
28	25	166	90	5
30	25	166	90	5
32	32	186	106	6

MLDH68 T Kanal Freze Çapraş Dişli

Mat.: HSS-E DIN3-851/B



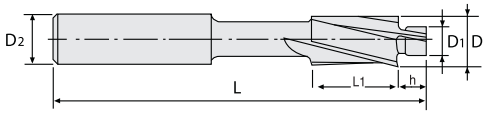


Sipariş Kodu	D	s	L	d
MLDH68/100	13.5	3	56	10
MLDH68/110	13.5	4	56	10
MLDH68/120	16.5	3	56	10
MLDH68/130	16.5	4	56	10
MLDH68/140	16.5	5	56	10
MLDH68/150	19.5	4	63	10
MLDH68/160	19.5	5	63	10
MLDH68/170	19.5	6	63	10
MLDH68/180	22.5	5	63	10
MLDH68/190	22.5	6	63	10
MLDH68/200	22.5	8	63	10
MLDH68/210	25.5	6	63	10
MLDH68/220	28.5	6	63	10
MLDH68/230	28.5	8	63	10
MLDH68/240	28.5	10	71	12
MLDH68/250	32.5	8	71	10
MLDH68/260	32.5	10	71	12
MLDH68/270	45.5	10	71	12

MLDH70 Sabit Pilotlu İmbus Kafa Yeri Freze

Mat.: HSS DIN373



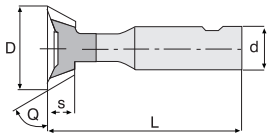


Sipariş Kodu	D	D1	d	L	L1	h
MLDH70/100	6	3.2	5	71	14	4
MLDH70/110	8	4.3	5	71	14	4
MLDH70/120	10	5.3	8	80	18	6
MLDH70/130	11	6.4	8	80	18	6
MLDH70/140	15	8.4	12.5	100	22	8
MLDH70/150	18	10.5	12.5	100	22	10
MLDH70/160	20	13.0	12.5	100	22	12
MLDH70/170	24	15.0	12.5	100	22	14
MLDH70/180	26	17.0	12.5	100	22	16
MLDH70/190	30	19.0	12.5	100	22	18

MLDH72 Kanal Freze

Mat.: HSS-E DIN1833/C





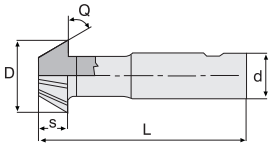
Sipariş Örneği MLDH72/DxQ

DxQ	S	L	d
16x45°	4.0	60	12
20x45°	5.0	63	12
25x45°	6.3	67	12
32x45°	8.0	71	16
16x60°	6.3	60	12
20x60°	8.0	63	12
25x60°	10.0	67	12
32x60°	12.5	71	16

MLDH74 Kırlangıç Freze

Mat.: HSS-E DIN1833/B





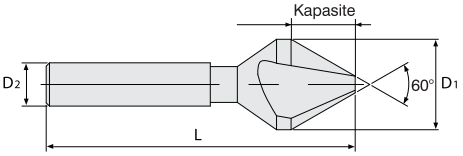
Sipariş Örneği MLDH74/DxQ

DxQ	S	L	d
16x45°	4.0	60	12
20x45°	5.0	63	12
25x45°	6.3	67	12
32x45°	8.0	71	16
16x60°	6.3	60	12
20x60°	8.0	63	12
25x60°	10.0	67	12
32x60°	12.5	71	16

MLDH76 — 3 Ağızlı Silindirik Saplı Havşa Freze 60°

Mat.: HSS DIN334/C



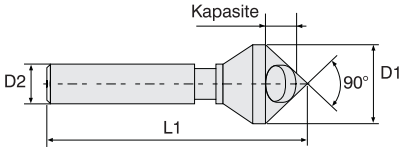


Sipariş Kodu	D1	D2	L	Kapasite
MLDH76/100	8.0	6	50	2 - 8
MLDH76/110	12.5	8	56	3.2 - 12.5
MLDH76/120	16.0	10	63	4 - 16
MLDH76/130	20.0	10	67	5 - 20
MLDH76/140	25.0	10	71	6.3 - 25

MLDH84 — Delikli Havşa Freze

Mat.: HSS-E MTE



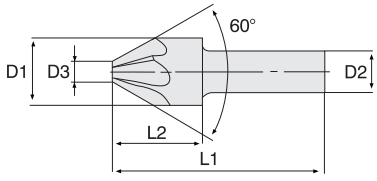


Sipariş Kodu	D1	Kapasite	D2	L1
MLDH84/100	10	2-5	6.0	45
MLDH84/110	14	5-10	8.0	48
MLDH84/120	21	10-15	10.0	65
MLDH84/130	28	15-20	12.0	85
MLDH84/140	35	20-25	12.7	102

MLDH80 — Çok Ağızlı Havşa Freze 60°

Mat.: HSS DIN334/A



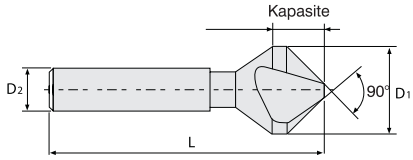


Sipariş Kodu	D1	D2	D3	L1	L2
MLDH80/100	8.0	8	-	50	-
MLDH80/110	12.5	8	2.0	50	18
MLDH80/120	16.0	10	3.2	60	24
MLDH80/130	20.0	10	5.0	63	27
MLDH80/140	25.0	10	7.0	78	33

MLDH78 — 3 Ağızlı Silindirik Saplı Havşa Freze 90°

Mat.: HSS DIN335/C



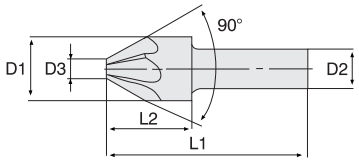


Sipariş Kodu	D1	D2	L	Kapasite
MLDH78/100	6.3	5.0	45	1.5 - 6.3
MLDH78/110	8.3	6.0	50	2 - 8.3
MLDH78/120	10.4	6.0	50	2.5 - 10.4
MLDH78/130	12.4	8.0	56	2.8 - 12.4
MLDH78/140	16.5	10.0	60	3.2 - 16.5
MLDH78/150	20.5	10.0	63	3.5 - 20.5
MLDH78/160	25.0	10.0	67	3.8 - 25
MLDH78/170	31.5	12.0	71	4.2 - 31.5
MLDH78/180	40	12.0	80	6.5 - 40

MLDH82 — Çok Ağızlı Silindirik Saplı Havşa Freze 90°

Mat.: HSS DIN335/A



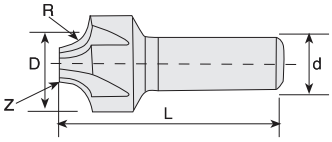


Sipariş Kodu	D1	D2	D3	L1	L2
MLDH82/100	8.0	8	-	48	-
MLDH82/110	12.5	8	2.0	48	16
MLDH82/120	16.0	10	3.2	56	20
MLDH82/130	20.0	10	5.0	60	24
MLDH82/140	25.0	10	7.0	71	26

MLDH86 Köşe Yuvarlama Freze

Mat.: HSS DIN6518

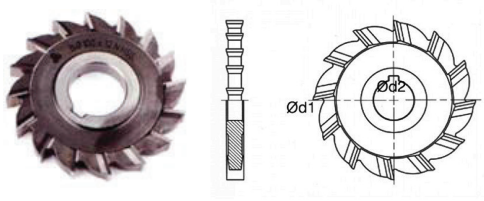




Sipariş Kodu	R	D	L	d	z
MLDH86/100	1	8	60	10	4
MLDH86/110	1.5-2-2.5	10	60	10	4
MLDH86/120	3	12	60	12	4
MLDH86/130	3.5-4	14	60	12	4
MLDH86/140	4.5-5	16	60	16	4
MLDH86/150	5.5-6	21	67	16	4
MLDH86/160	6.5-7-8	24	71	16	4
MLDH86/170	8.5-9-10	28	85	25	4
MLDH86/180	10.5-11-12	35	90	25	6
MLDH86/190	12.5-13-14	42	100	25	6
MLDH86/200	15-16-18	48	100	25	6
MLDH86/210	20	58	112	32	6

MLDH88 Kanal Freze - Düz Dişli

Mat.: HSS DIN885/B

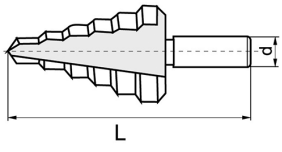


Sipariş Kodu	d1	b	d2
MLDH88/100	63	8	22
MLDH88/110	63	10	22
MLDH88/120	63	12	22
MLDH88/130	63	14	22
MLDH88/140	80	8	27
MLDH88/150	80	10	27
MLDH88/160	80	12	27
MLDH88/170	80	14	27
MLDH88/180	80	16	27
MLDH88/190	80	18	27
MLDH88/200	80	20	27
MLDH88/210	100	10	32
MLDH88/220	100	12	32
MLDH88/230	100	14	32
MLDH88/240	100	16	32
MLDH88/250	100	18	32
MLDH88/260	100	20	32
MLDH88/270	100	22	32
MLDH88/280	100	25	32

MLDH90 Kademeli Sac Delme Matkabı

Mat.: HSS-E MTE

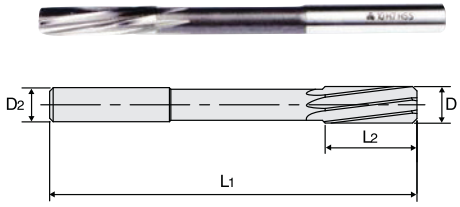




Sipariş Kodu	Nr	Delme Ölçü Aralığı	L	d	Ø Kademe Sayısı
MLDH90/100	Nr 0.5	4-12	65	6	5
MLDH90/110	Nr 1	4-20	75	8	9
MLDH90/120	Nr 2	4-30	100	10	14
MLDH90/130	Nr 5	4-39	107	10	13
MLDH90/140	Nr 1	4-20	75	1/4-6Köşe	9

MLDH92 Silindirik Saplı Makina Raybası

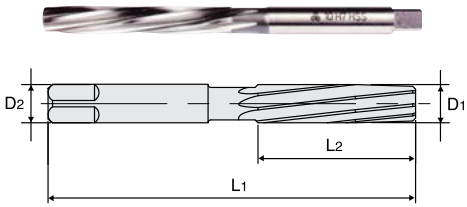
Mat.: HSS DIN212/D



Sipariş Kodu	D	D2	L1	L2
MLDH92/100	1.5	1.5	40	8
MLDH92/110	2.0	2.0	49	11
MLDH92/120	2.5	2.5	57	14
MLDH92/130	3.0	3.0	61	15
MLDH92/140	3.5	3.5	70	18
MLDH92/150	4.0	4.0	75	19
MLDH92/160	4.5	4.5	80	21
MLDH92/170	5.0	5.0	86	23
MLDH92/180	5.5	5.6	93	26
MLDH92/190	6.0	5.6	93	26
MLDH92/200	6.5	6.3	101	28
MLDH92/210	7.0	7.1	109	31
MLDH92/220	7.5	7.1	109	31
MLDH92/230	8.0	8.0	117	33
MLDH92/240	8.5	8.0	117	33
MLDH92/250	9.0	9.0	125	36
MLDH92/260	9.5	9.0	125	36
MLDH92/270	10.0	10.0	133	38
MLDH92/280	10.5	10.0	133	38
MLDH92/290	11.0	10.0	142	41
MLDH92/300	11.5	10.0	142	41
MLDH92/310	12.0	10.0	151	44
MLDH92/320	12.5	10.0	151	44
MLDH92/330	13.0	10.0	151	44
MLDH92/340	14.0	12.5	160	47
MLDH92/350	15.0	12.5	162	50
MLDH92/360	16.0	12.5	170	52
MLDH92/370	17.0	14.0	175	54
MLDH92/380	18.0	14.0	182	56
MLDH92/390	19.0	16.0	189	58
MLDH92/400	20.0	16.0	195	60

MLDH94 Silindirik Saplı El Raybası

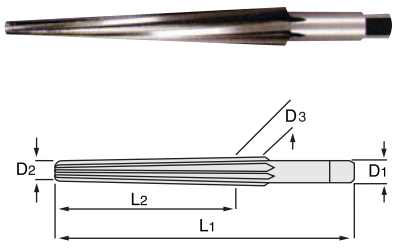
Mat.: HSS DIN206/B



Sipariş Kodu	D1	L1	L2	D2
MLDH94/100	2.0	50	25	1.60
MLDH94/110	2.5	58	29	2.00
MLDH94/120	3.0	62	31	2.24
MLDH94/130	4.0	76	38	3.15
MLDH94/140	4.5	81	41	3.55
MLDH94/150	5.0	87	44	4.00
MLDH94/160	5.5	93	47	4.50
MLDH94/170	6.0	93	47	4.50
MLDH94/180	6.5	100	50	5.00
MLDH94/190	7.0	107	54	5.60
MLDH94/200	8.0	115	58	6.30
MLDH94/210	8.5	115	58	6.30
MLDH94/220	9.0	124	62	7.10
MLDH94/230	10.0	133	66	8.00
MLDH94/240	11.0	142	71	9.00
MLDH94/250	12.0	152	76	10.00
MLDH94/260	13.0	152	76	10.00
MLDH94/270	14.0	163	81	11.20
MLDH94/280	15.0	163	81	11.20
MLDH94/290	16.0	175	87	12.50
MLDH94/300	17.0	175	87	12.50
MLDH94/310	18.0	188	93	14.00
MLDH94/320	20.0	201	100	16.00

MLDH97 1/10 Konik Pim Deliği Raybası

Mat.: HSS DIN9/B



Sipariş Kodu	Küçük Çap	Büyük Çap
MLDH97/100	3.0	10.0
MLDH97/110	5.0	15.0
MLDH97/120	10.0	25.0

MLDH96 1/50 Konik Pim Deliği Raybası

Mat.: HSS DIN9/B



Sipariş Kodu	D1	D2	D3	L1	L2	L3
MLDH96/100	2.0	1.9	2.86	68	48	5
MLDH96/110	2.5	2.4	3.36	68	48	5
MLDH96/120	3.0	2.9	4.06	80	58	5
MLDH96/130	4.0	3.9	5.26	93	68	5
MLDH96/140	5.0	4.9	6.36	100	73	5
MLDH96/150	6.0	5.9	8.00	135	105	5
MLDH96/160	8.0	7.9	10.80	180	145	5
MLDH96/170	10.0	9.9	13.40	215	175	5

MLDH98 Mors Konik Saplı Makina Raybası

Mat.: HSS DIN208/B



Sipariş Kodu	D1	L1	L2	Mors
208M 8	8	156	33	1
208M 10	10	168	38	1
208M 11	11	182	44	1
208M 12	12	182	44	1
208M 13	13	189	47	1
208M 14	14	204	50	2
208M 15	15	210	52	2
208M 16	16	214	54	2
208M 17	17	219	56	2
208M 18	18	223	58	2
208M 19	19	228	60	2
208M 20	20	237	64	2
208M 22	22	268	68	3
208M 24	24	268	68	3
208M 25	25	273	70	3
208M 28	28	277	71	3
208M 30	30	281	73	3
208M 32	32	317	77	4
208M 34	34	321	78	4
208M 36	36	325	79	4
208M 39	39	329	81	4
208M 40	40	329	81	4
208M 45	45	336	83	4
208M 50	50	344	86	4

MLDH100 Ayarlı Rayba Takımları

Mat.: HSS



Sipariş Kodu	Min. Ölçü	Max. Ölçü	Tip
MLDH100/10	8	31.5	düz tip
MLDH100/20	8	45.0	düz tip
MLDH100/30	8	31.5	kovanlı
MLDH100/40	8	45.0	kovanlı

MLDH102 Düz Ayarlı Rayba

Mat.: HSS



Sipariş Kodu	Min. Ölçü	Max. Ölçü	L
MLDH102/10	7.2	8	
MLDH102/20	8.0	9	
MLDH102/30	9.0	10	
MLDH102/40	10.0	11	
MLDH102/50	11.0	12	
MLDH102/60	12.0	13.5	
MLDH102/70	13.5	15.5	
MLDH102/80	15.5	18	
MLDH102/90	18.0	21	
MLDH102/100	21.0	24	
MLDH102/110	24.0	27.5	
MLDH102/120	27.5	31.5	
MLDH102/130	31.5	37	
MLDH102/140	37.0	45	
MLDH102/150	45.0	55	
MLDH102/160	55.0	65	
MLDH102/170	65.0	80	
MLDH102/180	80.0	95	

MLDH104 Kovanlı Ayarlı Rayba

Mat.: HSS



Sipariş Kodu	Min. Ölçü	Max. Ölçü	L
MLDH104/10	8.0	9	
MLDH104/20	9.0	10	
MLDH104/30	10.0	11	
MLDH104/40	11.0	12	
MLDH104/50	12.0	13.5	
MLDH104/60	13.5	15.5	
MLDH104/70	15.5	18	
MLDH104/80	18.0	21	
MLDH104/90	21.0	24	
MLDH104/100	24.0	27.5	
MLDH104/110	27.5	31.5	
MLDH104/120	31.5	37	
MLDH104/130	37.0	45	
MLDH104/140	45.0	55	
MLDH104/150	55.0	65	
MLDH104/160	65.0	80	
MLDH104/170	80.0	95	
MLDH104/180			

MLDH106 Kare Kesitli Torna Kalemi

Mat.: HSS CO DIN4964



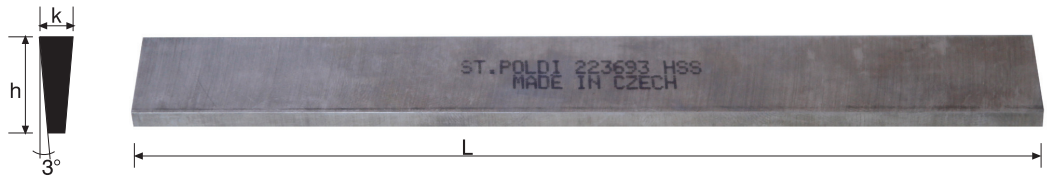
Ölçü (mm) k x h x L
4 x 4 x 63
4 x 4 x 80
4 x 4 x 100
5 x 5 x 63
5 x 5 x 80
5 x 5 x 100
6 x 6 x 63
6 x 6 x 80
6 x 6 x 100
8 x 8 x 80

Ölçü (mm) k x h x L
8 x 8 x 100
8 x 8 x 125
8 x 8 x 160
10 x 10 x 80
10 x 10 x 100
10 x 10 x 125
10 x 10 x 160
12 x 12 x 100
12 x 12 x 125
12 x 12 x 160

Ölçü (mm) k x h x L
12 x 12 x 200
14 x 14 x 125
14 x 14 x 160
14 x 14 x 200
16 x 16 x 125
16 x 16 x 160
20 x 20 x 125
20 x 20 x 160
20 x 20 x 200
25 x 25 x 160

MLDH108 Trapez Kesitli Torna Kalemi (Hava Çeliği)

Mat.: HSS CO DIN4964



Ölçü (mm) k x h x L
2.5 x 10 x 160
3 x 12 x 100
3 x 12 x 125
3 x 12 x 160
4 x 16 x 100

Ölçü (mm) k x h x L
4 x 16 x 125
4 x 16 x 160
4 x 16 x 200
5 x 20 x 100
5 x 20 x 125

Ölçü (mm) k x h x L
5 x 20 x 160
5 x 20 x 200
6 x 25 x 125
6 x 25 x 160
6 x 25 x 200

MLDH110 Yuvarlak Kesitli Torna Kalemi (Hava Çeliği)

Mat.: HSS CO DIN4964



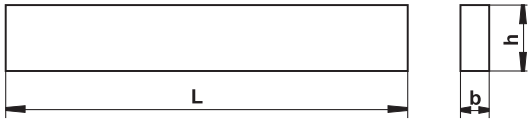
Ölçü (mm) k x h x L
4 x 100
5 x 100
6 x 100
8 x 80

Ölçü (mm) k x h x L
8 x 100
8 x 125
10 x 100
10 x 125

Ölçü (mm) k x h x L
12 x 125
16 x 125
20 x 100
20 x 125

MLDH112 Dikdörtgen Kesitli Lama Kalemi

Mat.: DIN4964/D





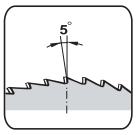
Sipariş Örneği GSP100/DxSxZ

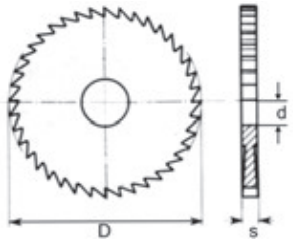
b (mm)	h (mm)	L (mm)
3	10	200
3	12	160
3	12	200
3	20	160
3	20	200
4	8	160
4	10	160
4	12	160
4	12	200
4	14	160
4	15	200
4	16	160
4	16	200
4	18	160
4	18	200
4	20	200
5	8	160
5	8	200
5	10	160
5	10	200
5	12	200
5	14	160
5	15	160
5	16	200
5	18	160
5	18	200
5	20	200
5	25	200
6	10	200

b (mm)	h (mm)	L (mm)
6	12	200
6	16	200
6	18	200
6	20	200
6	25	200
6	32	200
6	40	200
8	12	200
8	14	200
8	16	200
8	20	160
8	20	200
8	25	200
8	32	200
8	40	200
10	12	200
10	14	200
10	16	200
10	20	200
10	25	200
10	30	200
10	32	200
10	40	200
10	50	200
12	14	200
12	16	200
12	20	200
12	25	200
12	32	200

GSP100 Metal Daire Testereler

Mat.: HSS DIN 1837 A







Sipariş Örneği GSP100/DxSxZxd

DxS (mm)	d (mm)	Z Diş sayısı
25X0,4	8	48
25X0,6	8	48
25X1,0	8	48
25X1,2	8	48
25X1,5	8	48
25X1,6	8	48
25X2,0	8	48
32X1,0	8	48
32X1,2	8	48
32X1,5	8	48
32X1,6	8	48
32X2,0	8	48
32X3,0	8	32
32X4,0	8	32
40X0,2	10	128/160
40X0,25	10	100/160
40X0,3	10	100/160
40X0,4	10	128/160
40X0,5	10	80
40X0,6	10	80
40X0,7	10	80
40X0,8	10	80
40X0,9	10	80
40X1,0	10	64
40X1,2	10	64
40X1,5	10	64
40X1,6	10	64
40X2,0	10	48
40X2,5	10	48
40X3,0	10	48
50X0,2	13	128/200
50X0,25	13	128/200
50X0,3	10/13	128/160/200
50X0,4	13	100/200
50X0,5	13	100/200
50X0,6	13	100

DxS (mm)	d (mm)	Z Diş sayısı
50X0,7	13	100
50X0,8	13	80
50X0,9	13	80
50X1,0	13	80
50X1,2	13	80
50X1,5	13	64
50X1,6	13	64
50X2,0	13	64
50X2,5	13	64
50X3,0	13	48
50X4,0	13	48
50X5,0	13	48
63X0,2	10/13/16	128/200
63X0,25	13/16	150/200
63X0,3	10/13/16	128/200
63X0,4	10/13/16	128/200
63X0,5	13/16	128/200
63X0,6	16	100
63X0,7	16	100
63X0,8	16	100
63X0,9	16	100
63X1,0	16	100
63X1,2	16	100
63X1,5	16	80
63X1,6	16	80
63X2,0	16	80
63X2,5	16	64
63X3,0	16	64
63X3,5	16	64
63X4,0	16	64
63X5,0	16	48
63X6,0	16	48
80X0,3	22	160
80X0,4	22	160
80X0,5	22	128
80X0,6	22	128

DxS (mm)	d (mm)	Z Diş sayısı
80X0,7	22	128
80X0,8	22	128
80X0,9	22	128
80X1,0	22	100
80X1,2	22	100
80X1,4	22	100
80X1,5	22	100
80X1,6	22	100
80X2,0	22	80
80X2,5	22	80
80X3,0	22	80
80X3,5	22	80
80X4,0	22	64
80x5,0	22	64
80x6,0	22	64
100X0,5	22	160
100X0,6	22	160
100X0,7	22	160
100X0,8	22	128
100X0,9	22	128
100X1,0	22	128
100X1,2	22	128
100X1,5	22	128
100X1,6	22	100
100X2,0	22	100
100X2,5	22	100
100X3,0	22	80
100X3,5	22	80
100X4,0	22	80
100X5,0	22	80
100X6,0	22	64
125X0,4	22/27	160
125X0,6	22/27	160
125X0,8	22/27	160
125X1,0	22/27	160
125X1,2	22/27	128

DxS (mm)	d (mm)	Z Diş sayısı
125X1,5	22/27	128
125X1,6	22/27	128
125X2,0	22/27	64/128
125X2,5	22/27	64/100
125X3,0	22/27	100
125X3,5	22/27	100
125X4,0	22/27	100
125X5,0	22/27	80
125X6,0	22/27	80
160X1,0	32	160
160X1,2	32	80/100/160
160X1,6	32	80/100/160
160X2,0	32	128
160X2,5	32	128
160X3,0	32	128
160X3,5	32	64/128
160X4,0	32	64/100
160X5,0	32	100
160X6,0	32	100
200X1,0	32	100/200
200X1,2	32	100/200
200X1,5	32	160/200
200X1,6	32	100/160/200
200X2,0	32	80/160
200X2,5	32	160
200X3,0	32	128
200X3,5	32	128
200X4,0	32	128
200X4,5	32	128
200X5,0	32	128
200X6,0	32	100
250X2,0	32	200
250X2,5	32	160/200
250X3,0	32	160/200
250X4,0	32	160
250X5,0	32	160

Teknik Kimyasallar



moldart®

F3000 Moldart Kalıp Ayırıcı Silikon



500 ml.

F3000 yüksek ısıya dayanıklı olacak şekilde formüle edilmiştir. Yüzeyde homojen ve düzgün bir film oluşturur.

F3000 Plastik enjeksiyon ve dökümcülük sektöründe kalıp ayırıcı olarak kullanılır.

Kağıt işlerinde, tekstil sektöründe yapışma önleyici ve kaydırıcı olarak; metal, ahşap, plastik ve deri yüzeylerde parlatıcı olarak kullanılır.

F3000 yapısında insan sağlığına ve çevreye zararlı maddeler içermez.

F9000 Moldart Kalıp Koruyucu Wax Sprey (Beyaz Mum Tabaka)



500 ml.

F9000 Kalıp ve Metal koruma spreyi paslanmaya karşı korumak amacı ile geliştirilmiş bir üründür.

İnce ve kurumayan bir film tabakası oluşturur. Suyu iter, su ile emilsiyon yapmaz.

Katılaşmaz ve metalde leke yapmaz. Solvent veya alkali temizleyiciler kolayca temizlenir.

Su ve tuzlu su buharına dayanıklıdır. Plastik enjeksiyon kalıplarında, işlenmiş parçalarda, yedek parçalarda depolama süresince üstün koruma sağlar.

Kara ve deniz vasıtalarında paslanmaya karşı korunması istenilen tüm aksamları, motor ateşleme ünitelerini, elektrik bağlantılarını, sigorta kutularını uzun süre korur.

F4000 Moldart Kalıp Ayırıcı Silikon Free (Silikonsuz)



500 ml.

F4000 yüksek ısıya dayanıklı olacak şekilde formüle edilmiştir. Yüzeyde homojen ve düzgün bir film oluşturur.

F4000 Plastik enjeksiyon ve dökümcülük sektöründe kalıp ayırıcı olarak kullanılır.

Kağıt işlerinde, tekstil sektöründe yapışma önleyici ve kaydırıcı olarak; metal, ahşap, plastik ve deri yüzeylerde parlatıcı olarak kullanılır.

F3000 yapısında insan sağlığına ve çevreye zararlı maddeler içermez.

M8000 Delme Kesme Klavuz Çekme Yağ





Çelikde, paslanmazda, alüminyumda, siyah metal ve tüm çelik türlerinde kesme, delme ve kılavuz çekme operasyonlarında kullanılır.

İşlem sırasında oluşabilecek olan ısıyı düşürerek takımların zarar görmesini engeller ve çok rahat çalışma ortamı sağlar.

M8000 yoğun viskozitesi sayesinde muadil ürünlere nazaran daha yüksek performans sağlar.

Sipariş Kodu	Litre
M8000/01	470 ml.
M8000/02	5 Litre

Ayırıcılar

F3000



F3000 yüksek ısıya dayanıklı olacakşekilde formüle edilmiştir. Yüzeyde homojen ve düzgün bir film oluşturur. **F3000** Plastik enjeksiyon ve dökümcülük sektöründe kalıp ayırıcı olarak kullanılır. Kağıt işlerinde, tekstil sektöründe yapışma önleyici ve kaydırıcı olarak; metal, ahşap, plastik ve deri yüzeylerde parlatıcı olarak kullanılır.

500 ml.

F4000



F4000 yüksek ısıya dayanıklı olacakşekilde formüle edilmiştir. Yüzeyde homojen ve düzgün bir film oluşturur. **F4000** Plastik enjeksiyon ve dökümcülük sektöründe kalıp ayırıcı olarak kullanılır. Kağıt işlerinde, tekstil sektöründe yapışma önleyici ve kaydırıcı olarak; metal, ahşap, plastik ve deri yüzeylerde parlatıcı olarak kullanılır.

500 ml.

BTA-F1



Plastik enjeksiyon ve döküm işlerinde kalıp ayırıcı olarak kullanılır. Uygulanan tüm yüzeyi kaplayarak şeffaf bir film oluşturur. Yanıcı değildir.
Yüksek ısıya dayanıklı olup akma yapmaz.
Tekstil ve kağıt işlerinde yapışma önleyici ve kaydırıcı olarak transfer baskı makinelerinde boya temizliğinde ve kumaş ayırma işlerinde, ahşap, metal ve plastik yüzeyleri temizlemek ve parlatmak için kullanılır.

500 ml.

BTA-F2



Plastik enjeksiyon ve döküm işlerinde kalıp ayırıcı olarak kullanılır. Uygulanan tüm yüzeyi kaplayarak şeffaf bir film oluşturur.

Yanıcı değildir. Yüksek ısıya dayanıklı olup akma yapmaz.

400 ml.

BTA-F3



Kauçuk, plastik ve döküm işlerinde üretilen parçanın kalıptan kolay ayrılması ve parça kalitesininin yüksek olmasını sağlayan kalıp ayırıcıdır. Uygulanan tüm yüzeyi kaplayan film oluşturur. Yüksek ısıya dayanıklı olup akma yapmaz. insan sağlığına ve doğaya zararlı zararlı maddeler içermez. Ekonomik endüstriyel ambalajdadır.

500 ml.

BTA-FREE



Yüzeylerine boya yapılacak malzemelerin veya uygulanan ortamda uçuşarak boya ile ilgili işlem yapan diğer birimlerin boya tutmasını engellemez. Kauçuk, plastik ve döküm işlerinde üretilen parçanın kalıptan kolay ayrılması ve parça kalitesininin yüksek olmasını sağlayan kalıp ayırıcıdır. Uygulanan tüm yüzeyi kaplayan film oluşturur.

400 ml.

KA2000



Best KA2000 Kalıp Ayırıcı Silikon Sprey 400 mlBest® Kalıp Ayırıcı KA-2000, plastik enjeksiyon makinalarında plastik hammaddesinin kalıplara yapışmasını engelleyen, ayırıcı olarak kullanılan bir üründür. Tekstil makinaları, hareketli plastik dişliler, sürgülü raylar, pencere kanalları ve makinaların az yağlanabilen kısımlarında kolay çalışma sağlar ve sesi keser. Yanıcıdır.

400 ml.

KA571



Best Kalıp Ayırıcı KA-571 Silikonsuz, silikon içermediğinden dolayı üretilen mamüllerin boyanmasını ve sağlıklı bir şekilde etiketlenmesini sağlar. Çabuk uçucudur. 200°c'ye kadar olan sıcaklığa mükemmel dirençlidir. Uygulaması ile elde edilen ürünlerde boyama ve etiketlemede sorun çıkartmaz. Chlorofluorocarbons(cfc's) ve hydrocholorofluorocarbons (hcfc's) içermez. Koli adeti 20'dir.

500 ml.

11450400-39



Kalıp Ayırıcı silikonsuz kaydırıcı ve ayırıcıdır. Aktif malzemelerin saf doğal ürünlerden oluşan yüksek nitelikli kombinasyonu yüksek kayma etkisine sahiptir, bu da plastiklerin, kalıpların, metallerin ve araçların yapışmasını önler. WEICON Kalıp Ayırıcı plastik işlemede ve püskürtme, presleme ve vakum deformesinde kullanılabilir.

400 ml.

Temizleyici ve Yağ Sökücüler

11203500-39



WEICON Fren Temizleyici otomotiv sanayii için üniversal temizleyicidir, kalıntı bırakmadan temizler, yağından arındırır ve buharlaştırır. 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.

500 ml.

11213500-39



WEICON Genel Temizleyici sanayide kullanılan yağlardan kaynaklı yağları - parçaları ve üzerindeki kirleri kalıntı bırakmadan temizler. Genel amaçlı endüstriyel temizleyicidir.

500 ml.

11202500-39



WEICON Temizleyici Sprey S kalıntı bırakmadan temizler, yağından arındırır ve buharlaştırır. Aynı zamanda özel valfi kafanızın üstünde çalışmanıza olanak sağlar. Temizleyici Sprey S metallerde, camda, seramiklere, çoğu plastikte ve PVC, PMMA (pleksiglas), polistiren gibi termoplastiklerde kullanılabilir.

500 ml.

11203550-39



WEICON Kalıp Temizleyici yüksek aktif organik solvent bazlı özel temizleyicidir. Balmumu, silikon, yağ, sertleşmemiş PUR artıklar ve plastik, çelik veya alüminyum kalıplarından Diğerleri artıkları etkili bir şekilde temizler.

500 ml.

11202400-39



Silikon ve Yapıştırıcı Sökücü (Conta Sökücü) lakeler ve boyaların yanı sıra sertleşmiş sızdırmazlık malzemeleri ve yapıştırıcı kalıntılarını dikey yüzeylerden bile hızlı ve kolay bir şekilde çıkarır. Silikon ve Yapıştırıcı Sökücü (Conta Sökücü) metal, ahşap, cam, seramik, polietilen ve polipropilende kullanılabilmektedir. PVC, sentetik, linolyum gibi hassas plastiklerde kullanılmamalıdır.

400 ml.

11210400-39



WEICON Elektro Kontak Temizleyici tüm kirlenmiş veya aşınmış kontakları hızlı ve etkili bir şekilde temizlemek ve yağlarından arındırmak için özel bir temizleyicidir. Elektro Kontak Temizleyici elektronik ve mekanik parçaların temizlenmesi için özel olarak geliştirilmiştir. Yüksek saflıktaki solventlere sahip özel formül oksit/sülfit katmanları, yanma artıkları ve reçineli veya isli kirlenmeyi temizler.

400 ml.

BETA-P5



Üstün özellikleri ile kuvvetli pas sökücüdür. Yüzeye çok iyi işleme özelliğine sahiptir. Sıkışmış civata ve somunları anında gevşetir. En ince yerlere s›zarak pası çözer. Yağlar ve tekrar pas oluşumuna karşı korur. Üstün yağlama özelliği ile çalışan mekanizmalarda gıcırtıları ortadan kaldırır. Her türlü metal ve otomotiv endüstrisinde paslanmış bölgelerin çözülmesinde kullanılır.

500 ml.

MBB-100



Fren diskleri ve kampanalarl,fren balatalarl, debriyaj baskl ve parçalarl, Şanzlman ve difransiyel üzerindeki yağ, kir, silikon ve toz temizliğinde kullanılmak üzere özel formüle edilmiş bir üründür. Yağlar ve kirli makine parçaları, temizlenmek istenilen tüm metal malzemeler, cam ve seramik üzerinde kullanılır.

500 ml.

BETA-BT5



Gaz altı kaynak makinelerinde kaynak torçuna ve kaynak yapılan parçalara cüruf yapışmasını engeller. Torça yapışmış cürufları temizler. Kaynak kalitesini arttırarak, düzenli kaynak imkan› sağlar. Silikon yağı içermediğinden boya tutmayı engellemez. Metale zarar vermez. Yanıcı değildir. Karbondioksit itişli olduğundan aktif madde miktarı %95'dir.

500 ml.

Anti Korozyon Bakım ve Koruma

11251550



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. W 44 T ayrıca delme ve kesme işlemleri için bir kesme yağı olarak uygundur.

500 ml.

WD-40



Genel amaçlı yağlayıcı spreydir. Pası, nemi, kiri önleyip mükemmel bir koruma sağlar. 400ml ve 200ml olmak üzere iki boyda mevcuttur.

Sipariş Kodu	Litre
WD40/200	200 ml.
WD40/400	400 ml.
WD40/50	5 Lt.

400 ml.

F9000



F9000 Kalıp ve Metal koruma spreyi paslanmaya karşı korumak amacı ile geliştirilmiş bir üründür. İnce ve kurumayan bir film tabakası oluşturur. Suyu iter, su ile emilsiyon yapmaz. Katılaşmaz ve metalde leke yapmaz. Solvent veya alkali temizleyiciler kolayca temizlenir. Su ve tuzlu su buharına dayanıklıdır. Plastik enjeksiyon kalıplarında, işlenmiş parçalarda, yedek parçalarda depolama süresince üstün koruma sağlar.

500 ml.

11100400-39



Paslanmaz Çelik Sprey dayanıklı ve etkili koruyucu katman gerektiği durumlarda kullanılabilir. Alaşım krom, nikel ve manganez gibi maddelerden oluşmaktadır. WEICON Paslanmaz Çelik Sprey kamyon gövdelerindeki, silolardaki, boru hatlarındaki ve dış uygulamalardaki hasarlı paslanmaz çelik parçalarını onarmak için kullanılabilmektedir.

400 ml.

11100400-39



WEICON Çinko Sprey Alman TÜV onaylıdır ve tüm metal yüzeylere uzun süreli katodik korozyon koruması sağlamaktadır. Sprey, hızlı kuruyan, yapışkan ve koruyucu mikrofin çinko katmanı oluşturmaktadır. DIN 53167 ve DIN 50021'e göre tuz sprey testinde 550 saat sonra bile, çinko sprey ile kaplanmış metal parçalar hiçbir korozyon belirtisi göstermemiştir. İnce çinko parçaları aşırı zor hava ve çevre şartları altında bile dayanıklı bir koruyucu katman oluşturur.

400 ml.

11005400



WEICON Galvaniz-Sprey, tüm metal yüzeyler için kalıcı bir koruyucu tabaka olarak kullanılır. Hızlı kuruma özelliği ve güçlü tutuşu ile metalleri pas ve korozyondan korur. Galvaniz Sprey tatlı ve tuzlu suya ve + 300 ° C (+ 572 ° F)'ye kadar sıcaklığa dayanıklıdır. DIN EN ISO 9227'ye göre yapılan Tuz Püskürtme Testinde, 450 saat sonra bile WEICON Galva-Sprey ile kaplanmış metal parçalar hiçbir korozyon belirtisi göstermemiştir.

400 ml.

11101400-39



WEICON Bakır Sprey iç ve dış kullanım için etkili demirsiz metal karaktere sahip koruyucu ve dekoratif kaplamalar için yüksek yapışma gücü ve yüksek bakır içeriği ile yüksek kalitede, hava koşullarına dayanıklı metal spreydir. Çeşitli malzeme yüzeylerinin veya tasarım parçalarının optik düzeltmeleri için bile kullanılır. Bakır Sprey pencere eşiklerinde, oluklar ve iniş boruları, dış ışıklar ve posta kutuları ve güzel sanatlar & el sanatları ve dekoratif işler için kullanılabilmektedir.

400 ml.

11260400



WEICON Pnöma Lube pnömatik ekipman ve aksesuarlarda tüm hareketli ve korunacak parçalar için yağlayıcı ve korozyon önleyici evrensel bir çözüm ajanıdır. Yüksek PTFE içerikli özel formülasyonu çeşitli görevler için kullanımına olanak sağlar: Yağlama, korozyona karşı koruma, temizleme, su değiştirme ve korunma. Ürün pnömatik ekipman ve aksesuarların sadece kurulum veya bakımı esnasında değil, aynı zamanda çalışma sırasında da kullanılabilir.

500 ml.

RP-200



Metali paslanmaya karşı geçici olarak korumak amacı ile geliştirilmiş koruyucudur. Suyu iter, su ile emülsiyon yapmaz, katılaşmaz,metalde leke yapmaz, solvent ve alkali yağ temizleyiciler ile kolayca temizlenir. Su ve tuzlu su buharına dayanıklıdır. Plastik enjeksiyon kalıplarını, işlenmiş parçaları, yedek parçaları depolama süresince korur.

400 ml.

Yüksek Ferformans Gresler

BB-300



Kapı menteşe ve pimlerinde, dişliler, raylar, darbe ve sallantıya maruz kalan tüm parçaların yağlanması işleminde kullanılır. Su ile birleşmez ve ortamdan suyu iter. Ağır yük altında yüksek sıcaklığa (180 °C) dayanıklı olarak çalışabilen yapıya sahip bir üründür. Yüksek nüfuz etme ve tutunabilme özelliği ile en küçük alanlara kadar sızar ve çok uzun süre bu özelliğini korur.

500 ml.

11300400-39



WEICON PTFE-Sprey gressiz, PTFE bazlı, harika kayıcı özelliklere sahip kuru yağdır. WEICON PTFE Sprey tüm metallere, plastiklere ve ahşap yüzeylere yapışır. Yüksek PTFE içeriği sürtünme katsayısını büyük oranda azaltmaktadır. Kaplama kiri, tozu ve suyu iter, yağlara, grese ve pek çok kimyasala dayanıklıdır.

400 ml.

11520400-39



Sıvı Gres - Beyaz - harika yapışma dayanımı, mükemmel yıpranma ve basınç dayanımıyla çok amaçlı püskürtülebilir grestir. Özel aşındırma azaltan ve korozyon engelleyen katkı maddelerinin eklenmesi uzun süreli çalışma ömrü ile birlikte -20°C ile +150°C arası (-4 ile +302°F arası) sıcaklık kararlılığı elde eder. Şeffaf ürünlerde olduğu gibi, her zaman için görsel kontrol mümkündür.

500 ml.

AL-F



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.

Sipariş Kodu	Ambalaj
26550035-39	350 g.
26550040-39	400 g.
26550100-39	1 kg.
26550500-39	5 kg.
26550925-39	25 kg.

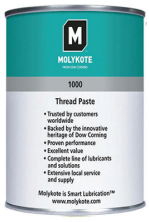
26200045-39



Bakır Macun koruyucu, ayırıcı, ve yağlayıcı olarak kullanılır, yüksek sıcaklık ve korozyon dayanımlı ve güçlüdür. Sülfür, kurşun ya da nikel içermez. Fren takozları ve kılavuzlarda, fren kamları ve pimlerinde, araba ve kamyon batarya terminalleri ve diğerleri elektrik bağlantılarında, bijon anahtarları ve somunlarında, aşınmış kovanlarda, elektrik, basınçlı hava ve hidrolik çekiçlerde titreşimi azaltmak için kullanılabilmektedir.

Sipariş Kodu	Ambalaj
26200012-39	120 g.
26200040-39	400 g.
26200050-39	500 g.
26200100-39	1 kg.
26200910-39	10 kg.

ML1000 PASTE



1100° C ye varan sıcaklıklar altında çalışan ve bir kez monte edildikten sonra tekrar sökülmesi icap eden cıvata bağlantıları için kullanılır. Burada sabit ön gerilme kuvvetleri elde etmek için yağlayıcı maddenin düzgün dağılmış sürtünme değerleri göstermesi gerekmektedir. MOLYKOTE 1000 istenen bu değerleri başarıyla gösterebilmektedir. MOLYKOTE 1000 genel olarak silindir kapağı cıvatalarında, petrokimya, demir-çelik vb. sanayindeki türbin cıvata bağlantılarında kullanılır.

1 kg.

MLDXPASTE



Molykote® DX GREASE - PASTE
MOLYKOTE DX kaymalı ve sürtünmeli yüzeylerde aşırı basınç altında çalışan ve "temiz" yağlama gerektiren makine elemanlarında, bilhassa düşük hızlarda ve rodaj devresinde kullanılır.

1 kg.

Yapıştırıcılar ve Sızdırmazlık Malzemeleri

302-22



Cıvata sabitleme, Titreşime dayanıklı, işaretsizdir

50 ml.

302-70



Dişlilerin ve başsız cıvataların kilitlenmesi DVGW onaylıdır.

50 ml.

305-42



Hidrolik ve Pnömatik Sızdırmazlık DVGW onaylı, işaretsizdir

50 ml.

306-38



Yataklar, dişli çarklar ve cıvatalar için sıkı kenetleme, hızlı sertleşme

50 ml.

305-42



Hidrolik ve Pnömatik Sızdırmazlık DVGW onaylı, işaretsizdir

50 ml.

BY-308



Her türlü plastik, metal, kauçuk, lastik deri, keçe, kağıt, seramik, cam, ahşap gibi yüzeylerde hızlı ve pratik kullanımı ile genel amaçlı kullanım sağlar.

En ufak boşluklara nüfuz eder. Birbirine sıkı oturmuş parçaları üstten sızma yöntemi ile mükemmel yapıştırır.

50 ml.

BY-142



Her türlü plastik, metal, kauçuk, deri, PVC, EPDM, ABS, keçe, kağıt, seramik, cam,ahşap gibi yüzeylerde hızlı ve pratik kullanımı ile genel amaçlı kullanım sağlar.

Yarı emici ve hafif pürüzlü yüzeyleri mükemmel yapıştırır.

50 ml.

BY-042



Kauçuk, plastik ve metal parçalardaki tüm uygulamalar için ideal üründür.

Tox ve kir tutmayan kuru bir film tabakası oluşturur.

Gıda işleme ve paketleme için uygundur.

Yüksek sıcaklığa dayanır.

50 ml.

BY-070



Endüstriyel amaçlı yağlayıcı, iç ve dış mekanlardaki ekipmanlarda kullanılabilir.

Hızlı nüfuz etme özelliği ile ulaşılması zor noktadaki kilitlenmiş cıvata-somun-vida ve diğer parçaları çözer.

50 ml.

LOCTITE401

Plastik, lastik, metal, mukavva, ahşap gibi birçok malzemenin yapıştırılmasında kullanılan genel amaçlı hızlı yapıştırıcıdır.



20 g.

LOCTITE406

Kauçuk (EPDM dahil) plastik ve elastomerlerin hızlı yapıştırılmasında kullanır.



20 g.

LOCTITE415

Kauçuk, plastik ve özellikle metal yapıştırmada kullanılan, genel amaçlı siyanoakrilat yapıştırıcıdır.



20 g.

LOCTITE495

Genel amaçlı siyanoakrilat yapıştırıcıdır.



20 g.

502

Plastik, lastik, metal, kağıt, cam, keçe, seramik, ahşap gibi birçok malzemenin yapıştırılmasını sağlar, genel amaçlı yapıştırıcı olarak kullanılır.



20 g.

BY-308

Fast-Metal dakikalık yapıştırıcı boşluğu doldurma kapasitesi sayesinde, pürüzlü ve tesviye edilmemiş yüzeyleri için uygundur ve çatlaklar, boşluklar ve pürüzlerin doldurulmasını sağlar.





24 ml.

10550024

WEICON Epoksi Dakikalık Yapıştırıcı metal, plastik, fiber takviyeli maddeler, seramikler, cam, taş ve ahşap gibi çeşitli maddeler üzerinde kullanıla bilmektedir.



24 ml.

13350085

WEICON Flex+bond metal, ahşap, plastik, cam ve seramik gibi neredeyse tüm malzemeleri kendilerine ve birbirlerine yapıştırmak için kullanılabilir.

WEICON Flex+bond birçok sanayi alanlarında kullanılır.



85 ml.

BALLY



Sipariş Kodu	Ambalaj
BALLY/10	50 gr.
BALLY/20	150 gr.
BALLY/30	400 gr.
BALLY/40	850 gr.
BALLY/50	3.2 kgr.

Tamir Çubukları ve Kalıp Boyaları

10533057-39
Tamir Çubuğu Çelik



WEICON Tamir Çubuğu Çelik makine ve tesisler mühendisliği, konteyner ve aparat yapımında , gıda, kozmetik ve ilaç endüstrisinde ve birçok başka alanda kullanılabilmektedir.

57 gr.

10535057-39
Tamir Çubuğu Titanyum



WEICON Tamir Çubuğu Titanyum makine ve tesisler mühendisliği, konteyner ve aparat yapımında ve endüstrinin birçok başka alanda kullanılabilmektedir.

57 gr.

10530057-39
Tamir Çubuğu Bakır



WEICON Tamir Çubuğu Bakır konteyner ve aparat yapımında, gıda, kozmetik ve ilaç endüstrilerinde ve birçok başka alanda kullanılabilmektedir.

57 gr.

CARB/100 ALC/1561 Kalıp Alıştırma Macunları

Yüksek dirençli metal yüzey aşındırıcısıdır. Metallerde düzeltme, seviye ayarlama, honlama, temizleme ve parlatma sağlar. Emme ve egzost supaplarının alıştırılması için ideal malzemedir.



CARB/100 ALC/1561

MAR-25920 Marpol Metal Cila

Oksitlenmiş her türlü aluminyum, demir, bakır, nikel, çinko türü malzemelerde uygulanır.



200 gr.

MRK Marka Boyaları

Kalıp markalama boyaları markalanacak yüzeylere boyanarak uygulanır.



Sipariş Kodu	Renk	Ambalaj
MRK/W10	Kırmızı	110 ml.
MRK/W20	Mavi	110 ml.

TUSC/AB Kalıp Alıştırma Boyası



Kalıbın erkek ve dişi eşlerinin alıştırılmasında, sac ve plastik enjeksiyon kalıplarında kullanılır.

Sipariş Kodu	Renk	Ambalaj
TUSC/AB-K060	Kırmızı	60 gr.
TUSC/AB-K225	Kırmızı	225 gr.
TUSC/AB-K700	Kırmızı	700 gr.
TUSC/AB-M060	Mavi	60 gr.
TUSC/AB-M225	Mavi	225 gr.
TUSC/AB-M700	Mavi	700 gr.

TKL Takilon

Model almada tercih edilen en iyi üründür. Kalıplarda dolgu olarak kullanılabilir.



Sipariş Kodu	Ambalaj
TKL/T250	Toz 250 ml.
TKL/T500	Toz 500 ml.
TKL/L250	Likit 250 ml.
TKL/L500	Likit 500 ml.

KABW110 Kalıp Alıştırma Boyası

Alıştırılacak yüzeyler için pratik kullanım sağlayan boyadır.



110 ml.

Parlatma Sıvıları

V8710 Sıvı Pasta ve Solüsyon



Bu sıvı kalıp parlatma esnasında
Yüzey temizleme, Yumuşatma, Taşın kesme özelliğini arttırma ve taşın kırılmasını önlemek amacıyla üretilmiştir.

Sipariş Kodu	Mikron	Standart	Ambalaj	Üretici Kodu	
V84710-01	1	K	400 gr.	211004	Ayna Parlaklığı
V84710-02	2	K	400 gr.	211005	
V84710-03	3	K	400 gr.	211006	
V84710-04	4,5	K	400 gr.	211007	
V84710-05	6	K	400 gr.	211008	Lepleme Tesviye
V84710-06	8	K	400 gr.	211009	
V84710-07	10	K	400 gr.	211010	
V84710-08	14	K	400 gr.	211011	
V84710-09	25	K	400 gr.	211012	Hızlı Aşındır.
V84710-10	45	K	400 gr.	211013	

V8711 Elmas Macun Nemlendirici Sıvı



Beyaz nemlendirici, gaz taşı, zımpara ve lepleme işlemleri sırasında kullanılır.

Mavi nemlendirici, elmas pasta'nın nemlendirme işleminde kullanılır.

Keçe, tel fırça, kıl fırça işlemleri esnasında elmas pasta ile daha iyi bir sonuç elde etmek için kayganlaştırıcı olarak kullanılır.

Sipariş Kodu 400 gr.	Sipariş Kodu 2,5 Lt.	Tipi	Renk	Çözülme
V84711-01	V84711-06	W	Şeffaf	Su
V84711-02	V84711-07	W2	Sarı	Su
V84711-03	V84711-08	OS	Mavi	Yağ
V84711-04	V84711-09	LS	Mavi	Yağ/Su
V84711-05	V84711-10	K	Şeffaf	Yağ

V8712 Lepleme Pastası



Sipariş Kodu	Mikron	Ağırlık	FEPA Kumlar	Üretici Kodu
V84712-01	109	1 Kg.	120	361689
V84712-02	69	1 Kg.	180	361549
V84712-03	58	1 Kg.	220	361550
V84712-04	36,5	1 Kg.	280	361538
V84712-05	29,2	1 Kg.	320	361558
V84712-06	22,8	1 Kg.	360	361548
V84712-07	17,3	1 Kg.	400	361551
V84712-08	9,3	1 Kg.	600	361514
V84712-09	6,5	1 Kg.	800	362616
V84712-10	4,5	1 Kg.	1000	361552
V84712-11	3	1 Kg.	1200	361547

M5350 Kalıp Parlatma Tozu



Kalıp polisaj işlemi bittikten sonra, yüzeyde kalan elmas pasta ve kimyasal nemlendiricilerin bırakmış olduğu nemli ve mat yüzeyü temizleyerek ayna parlaklığı elde etmenize yardımcı olan kullanışlı bir üründür.

Parlatma Ekipmanları



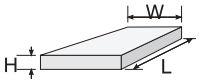
V8410 Seramik Gaz Taşları CERATON Japan

CERATON®
Ceramic Fiber Stones



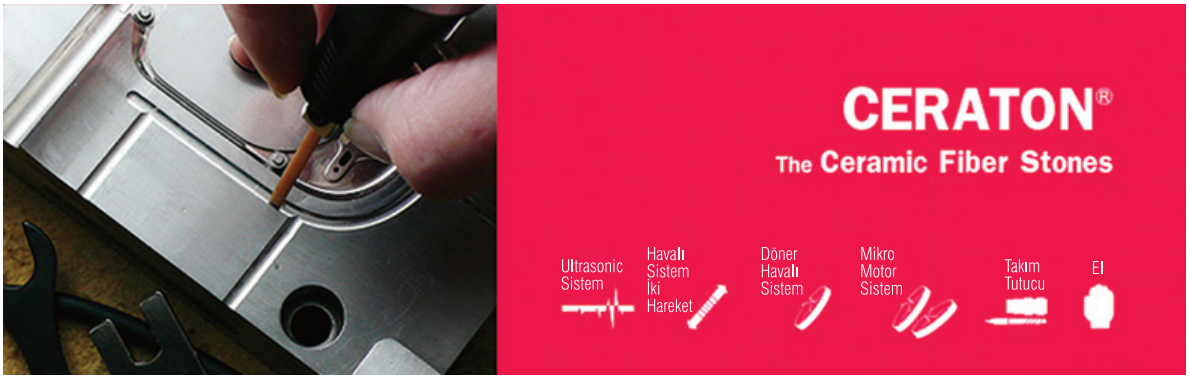
Sipariş Kodu	Renk	HxWxL	Kum
V8410/1x4-180		1x4x100	180
V8410/1x4-250		1x4x100	250
V8410/1x4-280		1x4x100	280
V8410/1x4-360		1x4x100	360
V8410/1x4-400		1x4x100	400
V8410/1x4-500		1x4x100	500
V8410/1x4-700		1x4x100	700
V8410/1x4-1000		1x4x100	1000
V8410/1x4-1200		1x4x100	1200

Sipariş Kodu	Renk	HxWxL	Kum
V8410/1x10-180		1x10x100	180
V8410/1x10-250		1x10x100	250
V8410/1x10-280		1x10x100	280
V8410/1x10-360		1x10x100	360
V8410/1x10-400		1x10x100	400
V8410/1x10-500		1x10x100	500
V8410/1x10-700		1x10x100	700
V8410/1x10-1000		1x10x100	1000
V8410/1x10-1200		1x10x100	1200



Sipariş Kodu	Renk	HxWxL	Kum
V8410/1x6-180		1x6x100	180
V8410/1x6-250		1x6x100	250
V8410/1x6-280		1x6x100	280
V8410/1x6-360		1x6x100	360
V8410/1x6-400		1x6x100	400
V8410/1x6-500		1x6x100	500
V8410/1x6-700		1x6x100	700
V8410/1x6-1000		1x6x100	1000
V8410/1x6-1200		1x6x100	1200

Sipariş Kodu	Renk	HxWxL	Kum
V8410/3-180		3x100	180
V8410/3-250		3x100	250
V8410/3-280		3x100	280
V8410/3-360		3x100	360
V8410/3-400		3x100	400
V8410/3-500		3x100	500
V8410/3-700		3x100	700
V8410/3-1000		3x100	1000
V8410/3-1200		3x100	1200



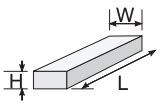
V8400 Gaz Taşları BELLSTONE



MF Serisi: Beyaz Aluminyum oksit (WA) Metodu ile elde edilmiş yumuşak bir taştır, ısıl işlem görmemiş tüm yüzey ve çeliklerdefiniş öncesi kullanılması tavsiye edilir.

MS Serisi: Vitrifiye Metod ile elde edilen alimina aşındırıcı taştır, yüksek kesme özelliği ile kaba ve finiş yüzey işlemede yüksek performans gösterir, genellikle ısıl işlem görmüş yüzeylerde erozyon kumu kaldırmada kullanılması tavsiye edilir.

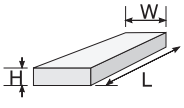
VH Serisi: Beyaz Aluminyum oksit (WA) Dış etkilere karşı mukavim ve erezyon işlemi sonrası iyi netice verir özellikle kenar köşe ve derin kanallarda, finişlerde kullanılması tavsiye edilir. içinde karbon olduğundan kırılmaya karşı dayanıklıdır.



Sipariş Kodu	H x W x L	Kum
V8400-MF0360120	3x6x150	120
V8400-MF0360220	3x6x150	220
V8400-MF0360320	3x6x150	320
V8400-MF0360400	3x6x150	400
V8400-MF0360600	3x6x150	600
V8400-MF0360800	3x6x150	800
V8400-MF0361000	3x6x150	1000

Sipariş Kodu	H x W x L	Kum
V8400-MS0360120	3x6x150	120
V8400-MS0360220	3x6x150	220
V8400-MS0360320	3x6x150	320
V8400-MS0360400	3x6x150	400
V8400-MS0360600	3x6x150	600
V8400-MS0360800	3x6x150	800
V8400-MS0361000	3x6x150	1000

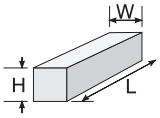
Sipariş Kodu	H x W x L	Kum
V8400-VH0360120	3x6x150	120
V8400-VH0360220	3x6x150	220
V8400-VH0360320	3x6x150	320
V8400-VH0360400	3x6x150	400
V8400-VH0360600	3x6x150	600
V8400-VH0360800	3x6x150	800
V8400-VH0361000	3x6x150	1000



Sipariş Kodu	H x W x L	Kum
V8400-MF3130120	3x13x150	120
V8400-MF3130220	3x13x150	220
V8400-MF3130320	3x13x150	320
V8400-MF3130400	3x13x150	400
V8400-MF3130600	3x13x150	600
V8400-MF3130800	3x13x150	800
V8400-MF3131000	3x13x150	1000

Sipariş Kodu	H x W x L	Kum
V8400-MS3130120	3x13x150	120
V8400-MS3130220	3x13x150	220
V8400-MS3130320	3x13x150	320
V8400-MS3130400	3x13x150	400
V8400-MS3130600	3x13x150	600
V8400-MS3130800	3x13x150	800
V8400-MS3131000	3x13x150	1000

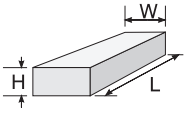
Sipariş Kodu	H x W x L	Kum
V8400-VH3130120	3x13x150	120
V8400-VH3130220	3x13x150	220
V8400-VH3130320	3x13x150	320
V8400-VH3130400	3x13x150	400
V8400-VH3130600	3x13x150	600
V8400-VH3130800	3x13x150	800
V8400-VH3131000	3x13x150	1000



Sipariş Kodu	H x W x L	Kum
V8400-MF0660120	6x6x150	120
V8400-MF0660220	6x6x150	220
V8400-MF0660320	6x6x150	320
V8400-MF0660400	6x6x150	400
V8400-MF0660600	6x6x150	600

Sipariş Kodu	H x W x L	Kum
V8400-MS0660120	6x6x150	120
V8400-MS0660220	6x6x150	220
V8400-MS0660320	6x6x150	320
V8400-MS0660400	6x6x150	400
V8400-MS0660600	6x6x150	600

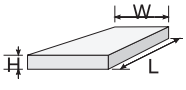
Sipariş Kodu	H x W x L	Kum
V8400-VH0660120	6x6x150	120
V8400-VH0660220	6x6x150	220
V8400-VH0660320	6x6x150	320
V8400-VH0660400	6x6x150	400
V8400-VH0660600	6x6x150	600



Sipariş Kodu	H x W x L	Kum
V8400-MF6130120	6x13x150	120
V8400-MF6130220	6x13x150	220
V8400-MF6130320	6x13x150	320
V8400-MF6130400	6x13x150	400
V8400-MF6130600	6x13x150	600
V8400-MF6130800	6x13x150	800
V8400-MF6131000	6x13x150	1000
V8400-MF6131200	6x13x150	1200
V8400-MF6132000	6x13x150	2000
V8400-MF6133000	6x13x150	3000

Sipariş Kodu	H x W x L	Kum
V8400-MS6130120	6x13x150	120
V8400-MS6130220	6x13x150	220
V8400-MS6130320	6x13x150	320
V8400-MS6130400	6x13x150	400
V8400-MS6130600	6x13x150	600
V8400-MS6130800	6x13x150	800
V8400-MS6131000	6x13x150	1000
V8400-MS6131200	6x13x150	1200
V8400-MS6132000	6x13x150	2000
V8400-MS6133000	6x13x150	3000

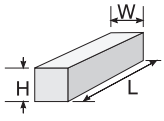
Sipariş Kodu	H x W x L	Kum
V8400-VH6130120	6x13x150	120
V8400-VH6130220	6x13x150	220
V8400-VH6130320	6x13x150	320
V8400-VH6130400	6x13x150	400
V8400-VH6130600	6x13x150	600
V8400-VH6130800	6x13x150	800
V8400-VH6131000	6x13x150	1000
V8400-VH6131200	6x13x150	1200
V8400-VH6132000	6x13x150	2000
V8400-VH6133000	6x13x150	3000



Sipariş Kodu	H x W x L	Kum
V8400-MF6250120	6x25x150	120
V8400-MF6250220	6x25x150	220
V8400-MF6250320	6x25x150	320
V8400-MF6250400	6x25x150	400
V8400-MF6250600	6x25x150	600

Sipariş Kodu	H x W x L	Kum
V8400-MS6250120	6x25x150	120
V8400-MS6250220	6x25x150	220
V8400-MS6250320	6x25x150	320
V8400-MS6250400	6x25x150	400
V8400-MS6250600	6x25x150	600

Sipariş Kodu	H x W x L	Kum
V8400-VH6250120	6x25x150	120
V8400-VH6250220	6x25x150	220
V8400-VH6250320	6x25x150	320
V8400-VH6250400	6x25x150	400
V8400-VH6250600	6x25x150	600



Sipariş Kodu	H x W x L	Kum
V8400-MF10100120	10x10x150	120
V8400-MF10100220	10x10x150	220
V8400-MF10100320	10x10x150	320
V8400-MF10100400	10x10x150	400
V8400-MF10100600	10x10x150	600

Sipariş Kodu	H x W x L	Kum
V8400-MS10100120	10x10x150	120
V8400-MS10100220	10x10x150	220
V8400-MS10100320	10x10x150	320
V8400-MS10100400	10x10x150	400
V8400-MS10100600	10x10x150	600

Sipariş Kodu	H x W x L	Kum
V8400-VH10100120	10x10x150	120
V8400-VH10100220	10x10x150	220
V8400-VH10100320	10x10x150	320
V8400-VH10100400	10x10x150	400
V8400-VH10100600	10x10x150	600

Seramik Gaz Taşı ve Eğe Tutucuları

Sipariş Kodu VSGTT/1x4



Ölçü : 1x4
Türü : Seramik Gaztaşı Tutucu
Açıklama : El ile kullanım

Sipariş Kodu VSGTT/1x6



Ölçü : 1x6
Türü : Seramik Gaztaşı Tutucu
Açıklama : El ile kullanım

Sipariş Kodu VSGTT/1x10



Ölçü : 1x10
Türü : Seramik Gaztaşı Tutucu
Açıklama : El ile kullanım

Sipariş Kodu VGTT/100



Ölçü : 3x6 - 3x13
Türü : Gaztaşı Tutucu
Açıklama : El ile kullanım

Sipariş Kodu VGTT613



Ölçü : 6x13
Türü : Gaztaşı Tutucu
Açıklama : El ile kullanım

Sipariş Kodu VGTT31



Ölçü : 3x1
Türü : Seramik Gaztaşı ve Eğe Tutucu
Açıklama : El ile kullanım

Sipariş Kodu VGTT363



Ölçü : 3x6 - 3x13
Türü : Elmas Eğe Tutucu
Açıklama : El ile kullanım

Sipariş Kodu VGTT336



Ölçü : 3x6 - 6x6
Türü : Gaztaşı Tutucu
Açıklama : El ile kullanım

Sipariş Kodu VGTT200



Ölçü : 3x13 - 6x13
Türü : Metal Gaztaşı Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT210



Ölçü : 3x13 - 6x13
Türü : Plastik Gaztaşı Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT220



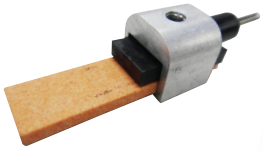
Ölçü : 3x6 - 3x13
Türü : Plastik Gaztaşı Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT230



Ölçü : 6x13
Türü : Gaztaşı Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT240



Ölçü : 3x13
Türü : Gaztaşı Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT250



Ölçü : 1x4 - 1x6 - 1x10
Türü : Seramik Gaztaşı Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT260



Ölçü : 1x4 - 1x6 - 1x10
Türü : Seramik Gaztaşı Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT270



Ölçü : 3x13 - 6x13
Türü : Metal Gaztaşı Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT280



Ölçü : 3 mm
Türü : Elmas Eğe Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT290



Ölçü : 1x13
Türü : Seramik Gaztaşı Tutucu
Açıklama : Makine ile kullanım

Sipariş Kodu VGTT300



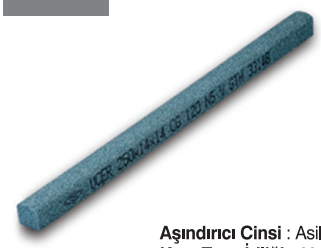
Ölçü : 3x13
Türü : Gaztaşı Tutucu
Açıklama : Makine ile kullanım

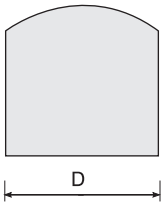
Sipariş Kodu VGTT310



Ölçü : 3x13 - 6x13
Türü : Plastik Gaztaşı Tutucu
Açıklama : Makine ile kullanım

V8415 Honlama Gaz Taşları

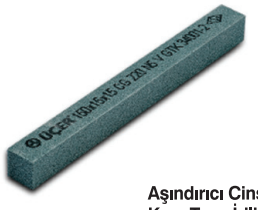


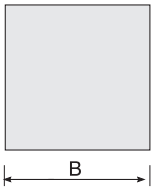


Aşındırıcı Cinsi : Asil Korund AR, Silisyum Karbür CG
Kum Tane İriliği : 60, 220
Standart Sertlik : N
Kullanım Yerleri : Kalıp Revizyon, honlama, kıla alma, bıçak ağzı bileme, genel kullanım.
TSE EN 12413 Tip No
Honlama Özel Tip 5410-5411

PEMBE			YEŞİL	
Sipariş Kodu 120	Sipariş Kodu 220	Ölçü	Sipariş Kodu 120	Sipariş Kodu 220
V8415-60224	V8415-60240	100x8x8	V8415-60248	V8415-60264
V8415-60225	V8415-60241	100x10x10	V8415-60249	V8415-60265
V8415-60226	V8415-60242	100x12x12	V8415-60250	V8415-60266
V8415-65358	V8415-65370	125x10x10	V8415-65371	V8415-65373
V8415-60227	V8415-60243	125x12x12	V8415-60251	V8415-60267
V8415-60228	V8415-60244	150x10x10	V8415-60252	V8415-60268
V8415-60229	V8415-60245	150x12x12	V8415-60253	V8415-60269
V8415-60230	V8415-60246	150x13x13	V8415-60254	V8415-60270
V8415-62870	V8415-62872	150x15x15	V8415-62873	V8415-62875
V8415-60231	V8415-60247	150x20x20	V8415-60255	V8415-60271
V8415-62876	V8415-62878	150x25x25	V8415-62879	V8415-62881
V8415-62882	V8415-62884	200x20x20	V8415-62885	V8415-62887

V8416 Kare Gaz Taşları



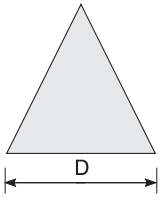


Aşındırıcı Cinsi : Asil Korund AR, Silisyum Karbür CG
Kum Tane İriliği : 60, 220
Standart Sertlik : N
Kullanım Yerleri : Kalıp Revizyon, honlama, kıla alma, bıçak ağzı bileme, genel kullanım.
TSE EN 12413 Tip No
Honlama Özel Tip 5410-5411

PEMBE			YEŞİL	
Sipariş Kodu 120	Sipariş Kodu 220	Ölçü	Sipariş Kodu 120	Sipariş Kodu 220
60338	60360	100x8x8	60371	60393
60339	60361	100x10x10	60372	60394
60340	60362	100x12x12	60373	60395
60341	60363	125x12x12	60374	60396
60342	60364	150x10x10	60375	60397
60343	60365	150x12x12	60376	60398
60344	60366	150x13x13	60377	60399
60345	60367	150x15x15	60378	60400
60346	60368	150x20x20	60379	60401
60347	60369	150x25x25	60380	60402
60348	60370	200x20x20	60381	60403

V8417 Üçgen Gaz Taşları



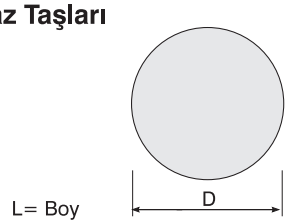


Aşındırıcı Cinsi : Asil Korund AR, Silisyum Karbür CG
Kum Tane İriliği : 60, 220
Standart Sertlik : N
Kullanım Yerleri : Kalıp Revizyon, honlama, kıla alma, bıçak ağzı bileme, genel kullanım.
TSE EN 12413 Tip No
Honlama Özel Tip 5410-5411

PEMBE			YEŞİL	
Sipariş Kodu 120	Sipariş Kodu 220	Ölçü	Sipariş Kodu 120	Sipariş Kodu 220
60404	60426	100x8x8	60437	60459
60405	60427	100x10x10	60438	60460
60406	60428	100x12x12	60439	60461
60407	60429	125x12x12	60440	60462
60408	60430	150x10x10	60441	60463
60409	60431	150x12x12	60442	60464
60410	60432	150x13x13	60443	60465
60411	60433	150x15x15	60444	60466
60412	60434	150x20x20	60445	60467
60413	60435	150x25x25	60446	60468
60414	60436	200x20x20	60447	60469

V8418 Yuvarlak Gaz Taşları



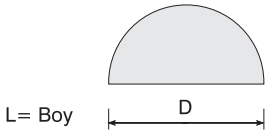


Aşındırıcı Cinsi : Asil Korund AR, Silisyum Karbür CG
Kum Tane İriliği : 60, 220
Standart Sertlik : N
Kullanım Yerleri : Kalıp Revizyon, honlama, kıla alma, bıçak ağzı bileme, genel kullanım.
TSE EN 12413 Tip No
Honlama Özel Tip 5410-5411

PEMBE			YEŞİL	
Sipariş Kodu 120	Sipariş Kodu 220	Ölçü	Sipariş Kodu 120	Sipariş Kodu 220
60272	60294	100x8x8	60305	60327
60273	60295	100x10x10	60306	60328
60274	60296	100x12x12	60307	60329
60275	60297	125x12x12	60308	60330
60276	60298	150x10x10	60309	60331
60277	60299	150x12x12	60310	60332
60278	60300	150x13x13	60311	60333
60279	60301	150x15x15	60312	60334
60280	60302	150x20x20	60313	60335
60281	60303	150x25x25	60314	60336
60282	60304	200x20x20	60315	60337

V8419 Yarım Yuvarlak Gaz Taşları

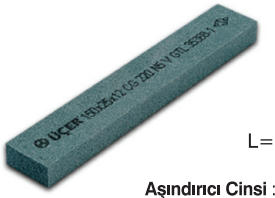


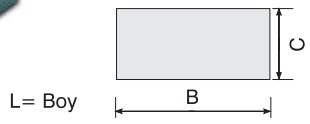


Aşındırıcı Cinsi : Asil Korund AR, Silisyum Karbür CG
Kum Tane İriliği : 60, 220
Standart Sertlik : N
Kullanım Yerleri : Kalıp Revizyon, honlama, kıla alma, bıçak ağzı bileme, genel kullanım.
TSE EN 12413 Tip No
Honlama Özel Tip 5410-5411

PEMBE			YEŞİL	
Sipariş Kodu 120	Sipariş Kodu 220	Ölçü	Sipariş Kodu 120	Sipariş Kodu 220
60494	60516	100x8x8	60527	60549
60495	60517	100x10x10	60528	60550
60496	60518	100x12x12	60529	60551
60497	60519	125x12x12	60530	60552
60498	60520	150x10x10	60531	60553
60499	60521	150x12x12	60532	60554
60500	60522	150x13x13	60533	60555
60501	60523	150x15x15	60534	60556
60502	60524	150x20x20	60535	60557
60503	60525	150x25x25	60536	60558
60504	60526	200x20x20	60537	60559

V8420 Lama Gaz Taşları

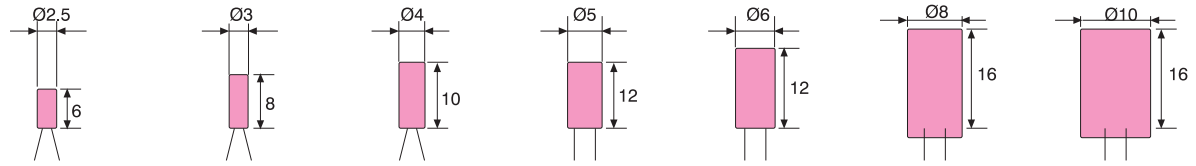




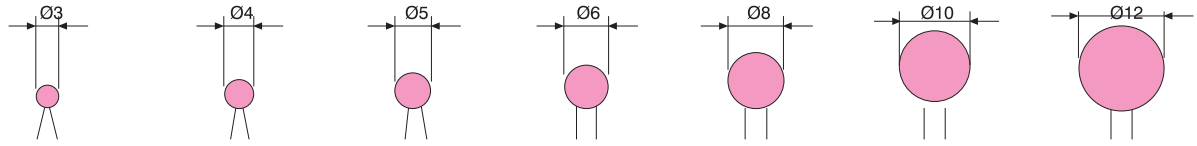
Aşındırıcı Cinsi : Asil Korund AR, Silisyum Karbür CG
Kum Tane İriliği : 60, 220
Standart Sertlik : N
Kullanım Yerleri : Kalıp Revizyon, honlama, kıla alma, bıçak ağzı bileme, genel kullanım.
TSE EN 12413 Tip No
Honlama Özel Tip 5410-5411

PEMBE			YEŞİL	
Sipariş Kodu 120	Sipariş Kodu 220	Ölçü	Sipariş Kodu 120	Sipariş Kodu 220
63170	63172	100x8x4	63173	63175
63176	63178	100x10x6	63179	63181
63182	63184	100x12x6	63185	63187
63188	63190	125x12x6	63191	63193
63194	63196	150x10x6	63197	63199
63200	63202	150x12x6	63203	63205
63206	63208	150x13x4	63209	63211
60470	60478	150x13x6	60479	60490
63212	63214	150x13x8	63215	63217
63218	63220	150x13x10	63221	63223
63230	63232	150x20x10	63233	63235
63236	63238	150x25x12	63239	63241
60471	60479	150x50x25	60483	60491
63242	63244	200x20x12	63245	63247
60473	60481	200x50x25	60485	60493

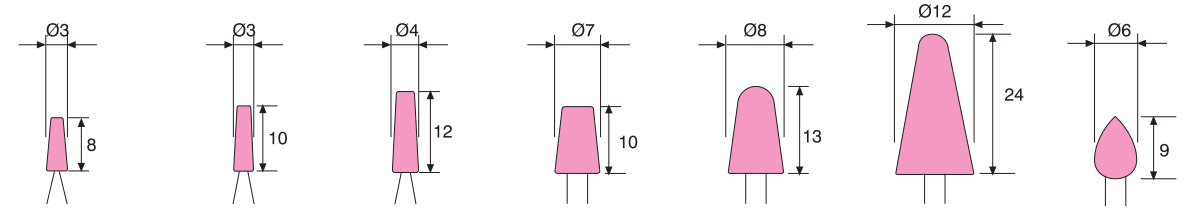
ST3 Saplı Pembe Taşlar (3 mm Şaftlı)



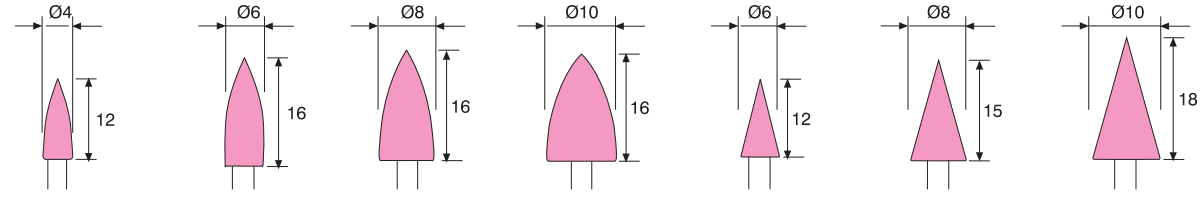
ST3-256A	ST3-308A	ST3-410A	ST3-510A	ST3-612A	ST3-816A	ST3-1016A



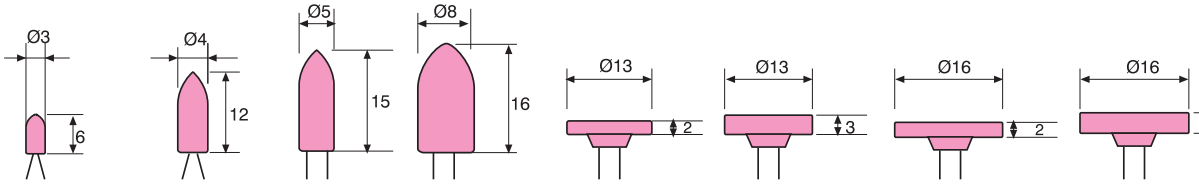
ST3-30B	ST3-40B	ST3-50B	ST3-60B	ST3-80B	ST3-100B	ST3-120B



ST3-308T	ST3-310T	ST3-412T	ST3-710T	ST3-813R	ST3-1224R*	ST3-609S



ST3-412J	ST3-616J	ST3-816J	ST3-1016J	ST3-612P	ST3-815P	ST3-1018P*

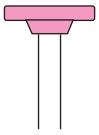


ST3-306K	ST3-412K	ST3-515K	ST3-816K	ST3-132E	ST3-133E	ST3-162E*	ST3-163E*

ST6 Saplı Pembe Taşlar (6 mm Şaftlı)

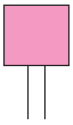
Sipariş Örneği ST6/Form-ØxBoy

Form A



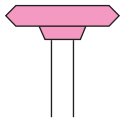
Ø 12x4
Ø 16x4
Ø 16x10
Ø 20x4
Ø 20x8
Ø 20x16
Ø 25x4
Ø 25x8
Ø 25x10
Ø 25x20
Ø 30x4
Ø 30x8
Ø 30x16
Ø 30x20
Ø 40x10
Ø 40x16
Ø 40x20
Ø 50x10
Ø 50x20
Ø 60x16
Ø 60x20

Form B



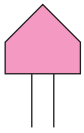
Ø 3x8
Ø 4x8
Ø 5x10
Ø 6x12
Ø 6x16
Ø 8x16
Ø 10x10
Ø 10x15
Ø 10x20
Ø 10x25
Ø 12x12
Ø 12x20
Ø 12x30
Ø 16x16
Ø 16x20
Ø 16x30
Ø 16x40
Ø 20x20
Ø 20x30
Ø 20x40
Ø 25x25
Ø 25x32
Ø 25x40
Ø 30x30
Ø 30x40
Ø 30x50
Ø 40x40

Form C



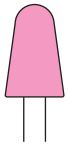
Ø 25x8
Ø 32x8
Ø 40x10
Ø 50x12

Form D



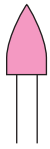
Ø 8x20
Ø 10x25
Ø 12x20
Ø 16x25
Ø 20x35

Form E



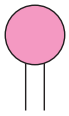
Ø 5x5
Ø 5x10
Ø 8x16
Ø 8x20
Ø 10x30
Ø 12x25
Ø 12x30
Ø 12x40
Ø 16x16
Ø 16x32
Ø 16x40
Ø 20x20
Ø 20x30
Ø 20x40
Ø 25x25
Ø 25x32
Ø 25x40
Ø 32x32
Ø 32x40
Ø 32x50

Form F



Ø 8x16
Ø 13x20
Ø 20x32
Ø 20x40

Form H



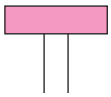
Ø 8
Ø 10
Ø 12
Ø 15
Ø 20
Ø 25
Ø 30
Ø 32

Form K



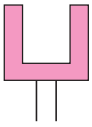
Ø 20x16
Ø 12x10
Ø 25x20
Ø 15x12
Ø 32x25
Ø 20x15
Ø 40x32
Ø 24x20

Form L



Ø 25x13x100
Ø 40x20x125
Ø 50x25x200
Ø 50x25x200
Ø 25x20x100

Form G



Ø 20x16
Ø 12x10
Ø 25x20
Ø 15x12
Ø 32x25
Ø 20x15
Ø 40x32
Ø 24x20

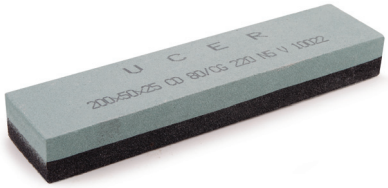


V8425 Kombine Taşlar



EKR Serisi

Sipariş Kodu	A	B	L
V8425-03011	16	25	100
V8425-03012	20	40	125
V8425-03013	25	50	150
V8425-03014	25	50	200



SCG Serisi

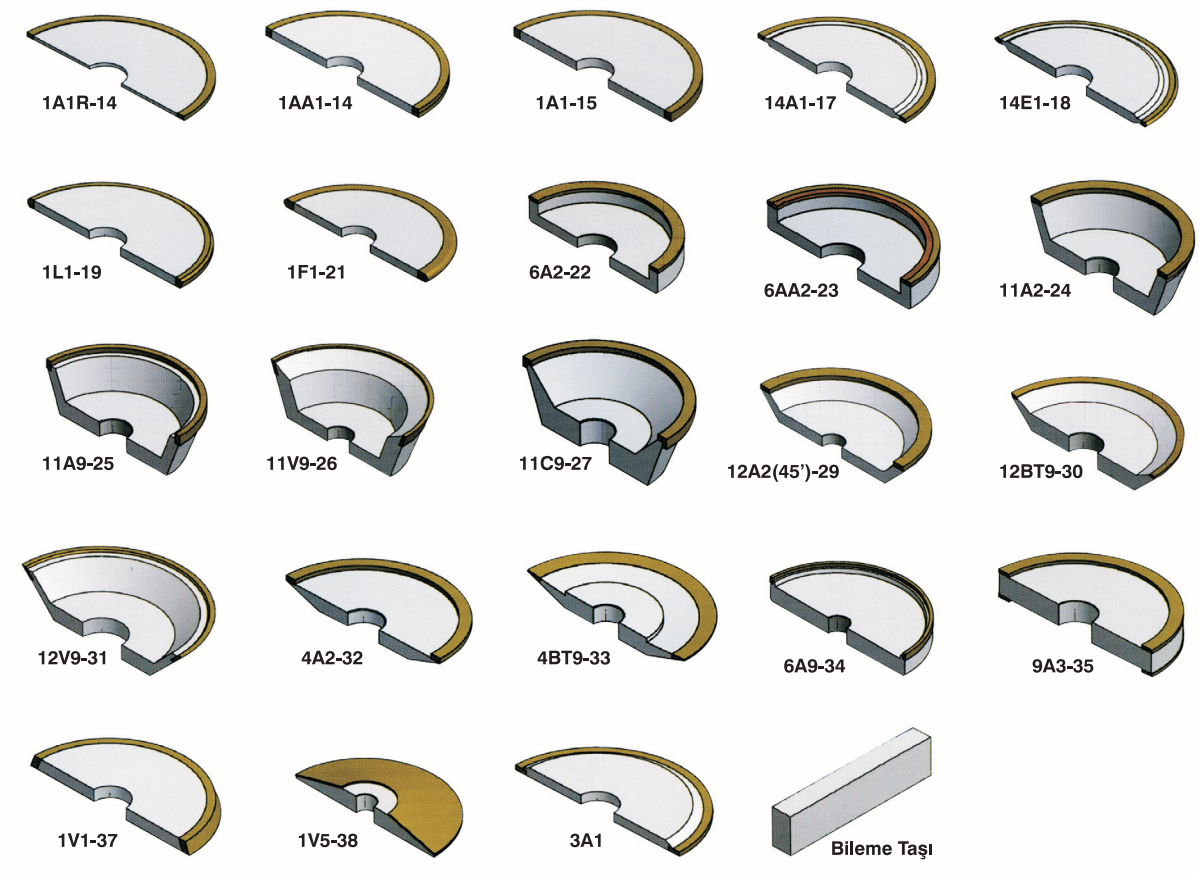
Sipariş Kodu	A	B	L
V8425-04011	16	25	100
V8425-04012	20	40	125
V8425-04013	25	50	150
V8425-04014	25	50	200



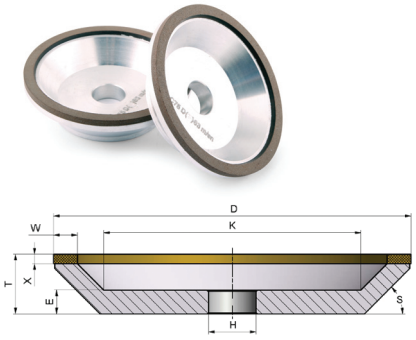
AlüOksit Serisi

Sipariş Kodu	A	B	L
V8425-05011	16	40	115
V8425-05012	25	50	150
V8425-05013	25	50	200

V890 Çanak Taşlar

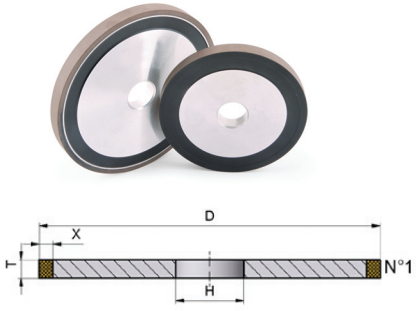


Elmas Taneli Disk 12A2-45



Sipariş Kodu	D	H	W	X	T
V890/12A245-01	75	20	6	3	25
V890/12A245-02	100	20	8	3	27
V890/12A245-03	125	32	8	3	30
V890/12A245-04	150	32	8	3	33
V890/12A245-05	175	32	10	3	33
V890/12A245-06	200	32	10	3	35

Elmas Taneli Disk 1A1

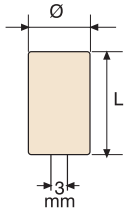


Sipariş Kodu	D	H	X	T
V890/1A1-01	100	20	4	10
V890/1A1-02	100	32	4	10
V890/1A1-03	125	20	4	12
V890/1A1-04	150	32	4	20
V890/1A1-05	175	32	4	20
V890/1A1-06	200	50	4	20

Polisaj Parlatma Keçeleri (3 mm Saplı)

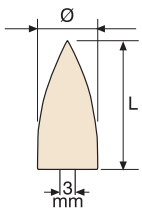


DA-Serisi



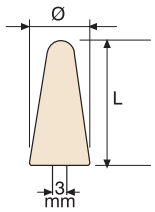
Sipariş Kodu	Ø	L
DPK-0408A	4	8
DPK-0509A	5	9
DPK-0610A	6	10
DPK-0810A	8	10
DPK-1014A	10	14
DPK-1220A	12	20
DPK-2020A	20	20

DJ-Serisi



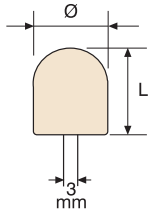
Sipariş Kodu	Ø	L
DPK-0410J	4	10
DPK-0512J	5	12
DPK-0616J	6	16
DPK-0817J	8	17
DPK-1014J	10	14
DPK-1020J	10	20
DPK-1220J	12	20
DPK-1225J	12	25

DR-Serisi



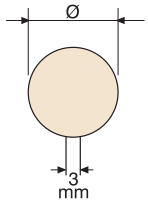
Sipariş Kodu	Ø	L
DPK-1014R	10	14
DPK-1225R	12	25

DC-Serisi



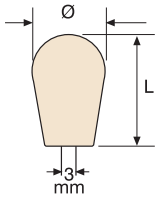
Sipariş Kodu	Ø	L
DPK-0408C	4	8
DPK-0509C	5	9
DPK-0610C	6	10
DPK-0810C	8	10
DPK-1013C	10	13
DPK-1214C	12	14
DPK-1220C	12	20

DB-Serisi



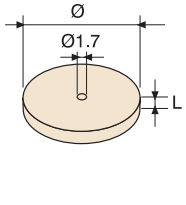
Sipariş Kodu	Ø
DPK-08B	8
DPK-10B	10
DPK-12B	12
DPK-18B	18

DH-Serisi



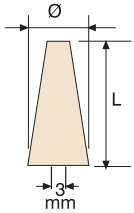
Sipariş Kodu	Ø	L
DPK-1218H	12 x 18	

DE-Serisi



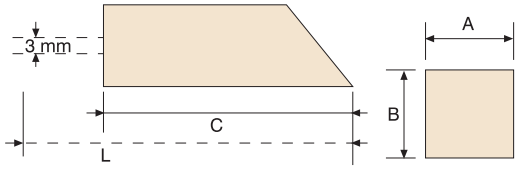
Sipariş Kodu	Ø	L
DPK-2503	25	3
DPK-2505	25	5

DT-Serisi



Sipariş Kodu	Ø	L
DPK-1218T	12	18

Saplı Kare Keçe



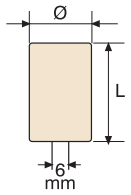
Sipariş Kodu	A	B	C	L
DPKP-06	6	6	40	64
DPKP-08	8	8	40	59
DPKP-10	10	10	40	79
DPKP-12	12	12	40	78
DPKP-18	18	18	40	77

Sapsız Modellerin Sipariş Kodu DPS grubudur.

Sipariş Örneği	DPS-A

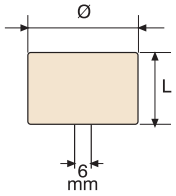
Polisaj Parlatma Keçeleri (6 mm Saplı) ve Parlatma Fırçaları

DPK601 Serisi



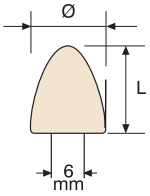
Sipariş Kodu	Ø	L
DPK601-1520	15	20
DPK601-2025	20	25
DPK601-2530	25	30
DPK601-3040	30	40
DPK601-4040	40	40
DPK601-5040	50	40

DPK602 Serisi



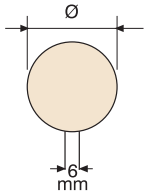
Sipariş Kodu	Ø	L
DPK602-2015	20	15
DPK602-3020	30	20
DPK602-4025	40	25
DPK602-5030	50	30

DPK603 Serisi



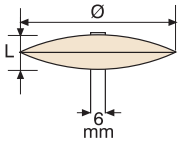
Sipariş Kodu	Ø	L
DKP603-1018	10	18
DKP603-2018	12	20
DKP603-1422	14	22
DKP603-1624	16	24
DKP603-2024	20	24
DKP603-2525	25	25
DKP603-3025	30	25

DPK604 Serisi



Sipariş Kodu	Ø
DKP604-10	10
DKP604-12	12
DKP604-14	14
DKP604-16	16
DKP604-16	18
DKP604-20	20
DKP604-25	25

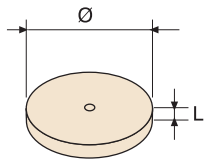
DPK605 Serisi



Mandren Sapı Ayrı Satılır.

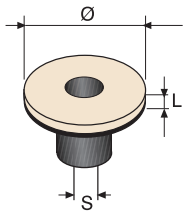
Sipariş Kodu	Ø	L
DKP605-144	14	4
DKP605-165	16	5
DKP605-195	19	5
DKP605-256	25	6
DKP605-386	38	6
DKP605-518	51	8
DKP605-648	64	8
DKP605-768	76	8

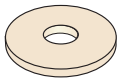
DPK606 Serisi



Sipariş Kodu	Ø	L
DPK606-2006	20	6
DPK606-2010	20	10
DPK606-2506	25	6
DPK606-2510	25	10
DPK606-3006	30	6
DPK606-3010	30	10
DPK606-4006	40	6
DPK606-4010	40	10
DPK606-5006	50	6
DPK606-5010	50	10

DPK610 Serisi





Yapışkanlı Keçe

Sipariş Kodu	Ø	L	S
DPK610-1210	12	10	3
DPK610-2010	20	10	3
DPK610-3210	32	10	3
DPK610-4810	48	10	6

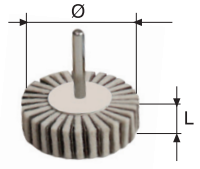
V85300 Serisi



Mop Keçe

Sipariş Kodu	Ø	L
V85300-2015	20	15
V85300-2020	20	20
V85300-2515	25	15
V85300-2520	25	20
V85300-2530	25	30
V85300-3015	30	15
V85300-3020	30	20
V85300-3030	30	25
V85300-3030	30	30
V85300-4020	40	20
V85300-4030	40	30
V85300-5020	50	20
V85300-5030	50	30
V85300-5040	50	40
V85300-6030	60	30
V85300-6040	60	40
V85300-6050	60	50
V85300-8030	80	30
V85300-8040	80	40
V85300-8050	80	50

V85302 Serisi



Mop Keçe + Zımpara

Sipariş Kodu	Ø	L
V85302-2015	20	15
V85302-2020	20	20
V85302-2515	25	15
V85302-2520	25	20
V85302-2530	25	30
V85302-3015	30	15
V85302-3020	30	20
V85302-3030	30	25
V85302-3030	30	30
V85302-4020	40	20
V85302-4030	40	30
V85302-5020	50	20
V85302-5030	50	30
V85302-5040	50	40
V85302-6030	60	30
V85302-6040	60	40
V85302-6050	60	50
V85302-8040	80	40
V85302-8050	80	50

V85305 Serisi



Flap Keçe

Sipariş Kodu	Ölçü
V85305	115x22

Flap Keçe + Zımpara

Sipariş Kodu	Ölçü
V85305Z	115x22

V85307 Serisi



Keçe Dairesel Mop

Sipariş Kodu	Ø	K	Delik Ø
V85307-11520	165	30	25,2
V85307-11530	165	50	25.2
V85307-11540	165	30	43.4
V85307-11550	165	50	43.4

Keçe Dairesel Mop + Zımpara

Sipariş Kodu	Ø	K	Delik Ø
V85307Z-11520	165	30	25.2
V85307Z-11530	165	50	25.2
V85307Z-11540	165	30	43.4
V85307Z-11550	165	50	43.4

V85306 Serisi



Jet Tip Taban Keçe

Sipariş Kodu	Ø	K
V85306-070	70	15
V85306-100	100	15

V85308 Serisi



Plaka Keçe

Sipariş Kodu	Ölçü mm
V85308-100	6x250x250 Sert
V85308-110	6x250x250 Yum.
V85308-120	10x250x250 Sert
V85308-130	10x250x250 Yum.
V85308-140	12x250x250 Sert
V85308-150	12x250x250 Yum.
V85308-160	19x250x250 Sert
V85308-170	19x250x250 Yum.

Parlatma Fırçaları Tel, Kıl ve Yün

KIL FIRÇALAR


D20 - T2

Kod V85080-10


D25 - T2

Kod V85080-20


D30 - T2

Kod V85080-30


D5 - T6

Kod V85080-40


D6 - T8

Kod V85080-50


D8 - T10

Kod V85080-60


D15 - T8

Kod V85080-70

SARI TEL FIRÇALAR


D20 - T2

Kod V85082-10


D25 - T2

Kod V85082-20


D30 - T2

Kod V85082-30


D5 - T6

Kod V85082-40


D6 - T8

Kod V85082-50


D8 - T10

Kod V85082-60


D8 - T10

Kod V85082-70

ÇELİK TEL FIRÇALAR


D20 - T2

Kod V85084-10


D25 - T2

Kod V85084-20


D30 - T2

Kod V85084-30


D5 - T6

Kod V85084-40


D6 - T8

Kod V85084-50


D8 - T10

Kod V85084-60


D8 - T10

Kod V85084-70

YÜN FIRÇALAR


D20 - T2

Kod V85086-10


D25 - T2

Kod V85086-20


D30 - T2

Kod V85086-30


D5 - T6

Kod V85086-40


D6 - T8

Kod V85086-50


D8 - T10

Kod V85086-60


D8 - T10

Kod V85086-70

TEMİZLİK FIRÇALARI


V85090-10 No 3 Gerçek Pirinç
V85090-20 No 4 Gerçek Pirinç
V85090-30 No 5 Gerçek Pirinç
V85090-40 No 6 Gerçek Pirinç

TEL FIRÇA (Gerçek Pirinç)



Plastik Saplı Tel Fırçalar (Ufak)



Plastik Saplı Tel Fırçalar (Büyük)



Yumuşak Polisaj Fırçası

V8401 Saplı Krateks Lastik



Sipariş Kodu	Kum	Lastik Ölçüsü
V8401-K101	220	4 mm
V8401-K102	220	6 mm
V8401-K103	220	8 mm
V8401-K104	220	10 mm
V8401-K105	400	4 mm
V8401-K106	400	6 mm
V8401-K107	400	8 mm
V8401-K108	400	10 mm
Pim çapı 3 mm'dir.		

Sipariş Kodu	Kum	Lastik Ölçüsü
V8401-K109	220	12 mm
V8401-K110	220	16 mm
V8401-K111	220	20 mm
V8401-K112	220	30 mm
V8401-K113	400	12 mm
V8401-K114	400	16 mm
V8401-K115	400	20 mm
V8401-K116	400	30 mm
Pim çapı 6 mm'dir.		

V8402 Silindir Parlatma Lastik



Sipariş Kodu	Lastik Tipi
V8402-K201	Kırmızı
V8402-K202	Siyah
V8402-K203	Yeşil
V8402-K204	Kahverengi
V8402-K205	Mavi

Ölçü standart olup 6.5 mm x 27 mm'dir.

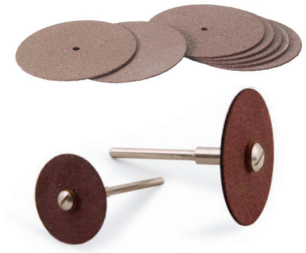
V8403 Daire Parlatma Lastik



Sipariş Kodu	Lastik Tipi
V8403-K201	Kırmızı
V8403-K202	Siyah
V8403-K203	Yeşil
V8403-K204	Kahverengi
V8403-K205	Mavi

Ölçü standart olup 3.6 mm x 22 mm'dir.

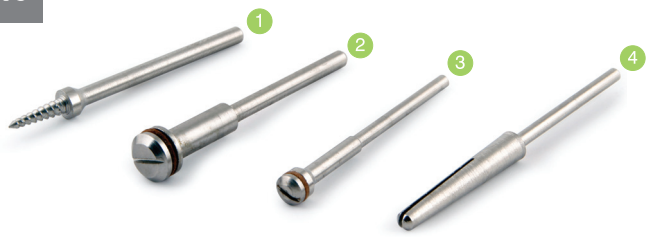
V8404 Separe Kesme Taş



Sipariş Kodu	Çap Kalınlık
V8404-K401	Ø 24 x 0.6
V8404-K402	Ø 38 x 0.6
V8404-K403	Ø 38 x 1.0

Malafaları Ayrı Satılmaktadır.

V8405 Spiral Malafalar



1- Konik Vidalı Mandren:
Silindir lastiklerde kullanılır

2- Vidalı Mandren (Büyük):
Daire lastiklerde ve Separe kesmelerde kullanılır

3- Vidalı Mandren (Küçük):
Daire lastiklerde ve Separe kesmelerde kullanılır

4- Yaprak Mandren:
Su zımparaları ve ince bezli zımparalarda kullanılır

Yapışkanlı Zımpara



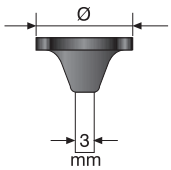
Sipariş Kodu	Ø	Kum
V8406/12	12	60-150
V8406/20	20	60-150
V8406/25	25	60-150
V8406/33	33	60-150
V8406/40	40	60-150
V8406/50	50	60-150

Yapışkanlı Zımpara Kadife



Sipariş Kodu	Ø
V8407/13	13
V8407/19	19
V8407/31	31
V8407/46	46

Yapışkan Zımpara Malafası



Sipariş Kodu	Ø	mm
V8406M/10	10	3
V8406M/18	18	3
V8406M/30	30	3
V8406M/30	30	6
V8406M/45	45	6

Skotch



2.35mm

Sipariş Kodu
V8408

Yumuşak Puf



2.35 mm

Sipariş Kodu
V8409

Spiro Mop Zımparalar

3 mm Saplı Mop Zımparalar



4x12

060 KUM

Kod V8410-01

120 KUM

Kod V8410-10



5x12

Kod V8410-02

Kod V8410-20



6x12

Kod V8410-03

Kod V8410-30



8x20

Kod V8410-04

Kod V8410-40



10x20

Kod V8410-05

Kod V8410-50

3 mm Saplı Mop Lastikleri



4x12

Kod V8411-01



5x12

Kod V8411-02



6x12

Kod V8411-03



8x20

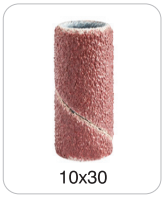
Kod V8411-04



10x20

Kod V8411-05

6 mm Saplı Mop Zımparalar



10x30

60 KUM

Kod V8415-01

120 KUM

Kod V8415-10



12x30

Kod V8415-02

Kod V8415-20



15x30

Kod V8415-03

Kod V8415-30



20x30

Kod V8415-04

Kod V8415-40



25x30

Kod V8415-05

Kod V8415-50



30x30

Kod V8415-06

Kod V8415-60



40x30

Kod V8415-07

Kod V8415-70

6 mm Saplı Mop Lastikleri



10x30

Kod V8416-01



12x30

Kod V8416-02



15x30

Kod V8416-03



20x30

Kod V8416-04



25x30

Kod V8416-05



30x30

Kod V8416-06



40x30

Kod V8416-07

V8420 Bez Şerit Zımparalar



Yumuşak Bez Zımpara

Sipariş Kodu	Kum	En (mm)	Boy
V8420Y/10	60	200	50 mt
V8420Y/20	80	200	50 mt
V8420Y/30	100	200	50 mt
V8420Y/40	120	200	50 mt
V8420Y/50	180	200	50 mt
V8420Y/60	220	200	50 mt
V8420Y/70	320	200	50 mt
V8420Y/80	400	200	50 mt
V8420Y/90	600	200	50 mt

Talep edilen ölçülerde kesim yapılabilir.

Sert Bez Zımpara

Sipariş Kodu	Kum	En (mm)	Boy
V8420S/10	60	200	50 mt
V8420S/20	80	200	50 mt
V8420S/30	100	200	50 mt
V8420S/40	120	200	50 mt
V8420S/50	180	200	50 mt
V8420S/60	220	200	50 mt
V8420S/70	320	200	50 mt
V8420S/80	400	200	50 mt

Talep edilen ölçülerde kesim yapılabilir.

V8430T Cırtlı Disk Aparatı



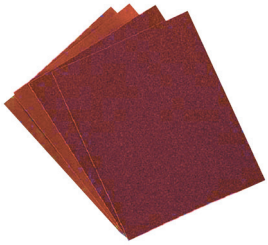
Sipariş Kodu	Ebat
V8430T/100	Ø 115
V8430T/110	Ø 180

V8430F Fiber Disk Aparatı



Sipariş Kodu	Ebat
V8430F/115	Ø 115
V8430F/120	Ø 180

V8425 Su Zımparaları



Sipariş Kodu	Kum	En (mm)	Boy (mm)
V8425/060	60	200	300
V8425/080	80	200	300
V8425/100	100	200	300
V8425/120	120	200	300
V8425/180	180	200	300
V8425/220	220	200	300
V8425/280	280	200	300
V8425/320	320	200	300
V8425/400	400	200	300
V8425/500	500	200	300
V8425/600	600	200	300
V8425/800	800	200	300
V8425/1000	1000	200	300
V8425/1200	1200	200	300
V8425/2000	2000	200	300

V8430C Cırtlı Disk



Sipariş Kodu	Ebat	Kum
V8430C/100	Ø 115	80
V8430C/110	Ø 115	120
V8430C/120	Ø 115	180
V8430C/130	Ø 115	240
V8430C/140	Ø 115	320
V8430C/150	Ø 115	400
V8430C/160	Ø 115	600
V8430C/170	Ø 180	80
V8430C/180	Ø 180	120
V8430C/190	Ø 180	180
V8430C/200	Ø 180	240
V8430C/210	Ø 180	320
V8430C/220	Ø 180	400
V8430C/230	Ø 180	600

V8430A Fiber Diskler ALU



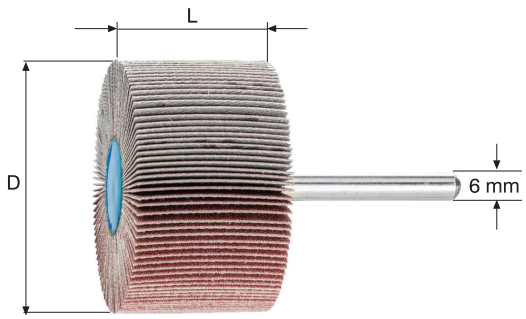
Sipariş Kodu	Ebat	Kum
V8430A/100	Ø 115	24
V8430A/110	Ø 115	36
V8430A/120	Ø 115	40
V8430A/130	Ø 115	50
V8430A/140	Ø 115	60
V8430A/150	Ø 115	80
V8430A/160	Ø 115	100
V8430A/170	Ø 115	120
V8430A/180	Ø 125	24
V8430A/190	Ø 125	36
V8430A/200	Ø 125	40
V8430A/210	Ø 125	50
V8430A/220	Ø 125	60
V8430A/230	Ø 125	80
V8430A/240	Ø 125	100
V8430A/250	Ø 125	120

V8430Z Fiber Diskler ZR



Sipariş Kodu	Ebat	Kum
V8430Z/100	Ø 115	24
V8430Z/110	Ø 115	36
V8430Z/120	Ø 115	40
V8430Z/130	Ø 115	50
V8430Z/140	Ø 115	60
V8430Z/150	Ø 115	80
V8430Z/160	Ø 115	100
V8430Z/170	Ø 115	120
V8430Z/180	Ø 125	24
V8430Z/190	Ø 125	36
V8430Z/200	Ø 125	40
V8430Z/210	Ø 125	50
V8430Z/220	Ø 125	60
V8430Z/230	Ø 125	80
V8430Z/240	Ø 125	100
V8430Z/250	Ø 125	120

V8435 Mop Zımpara



Ölçü DxL	40 Kum	60 Kum	80 Kum	100 Kum	120 Kum	150 Kum	180 Kum	220 Kum	320 Kum	400 Kum
20x15	V8435/040/01	V8435/060/01	V8435/080/01	V8435/100/01	V8435/120/01	V8435/150/01	V8435/180/01	V8435/220/01	V8435/320/01	V8435/400/01
20x20	V8435/040/02	V8435/060/02	V8435/080/02	V8435/100/02	V8435/120/02	V8435/150/02	V8435/180/02	V8435/220/02	V8435/320/02	V8435/400/02
20x25	V8435/040/03	V8435/060/03	V8435/080/03	V8435/100/03	V8435/120/03	V8435/150/03	V8435/180/03	V8435/220/03	V8435/320/03	V8435/400/03
20x30	V8435/040/04	V8435/060/04	V8435/080/04	V8435/100/04	V8435/120/04	V8435/150/04	V8435/180/04	V8435/220/04	V8435/320/04	V8435/400/04
25x15	V8435/040/05	V8435/060/05	V8435/080/05	V8435/100/05	V8435/120/05	V8435/150/05	V8435/180/05	V8435/220/05	V8435/320/05	V8435/400/05
25x20	V8435/040/06	V8435/060/06	V8435/080/06	V8435/100/06	V8435/120/06	V8435/150/06	V8435/180/06	V8435/220/06	V8435/320/06	V8435/400/06
25x30	V8435/040/07	V8435/060/07	V8435/080/07	V8435/100/07	V8435/120/07	V8435/150/07	V8435/180/07	V8435/220/07	V8435/320/07	V8435/400/07
30x15	V8435/040/08	V8435/060/08	V8435/080/08	V8435/100/08	V8435/120/08	V8435/150/08	V8435/180/08	V8435/220/08	V8435/320/08	V8435/400/08
30x20	V8435/040/09	V8435/060/09	V8435/080/09	V8435/100/09	V8435/120/09	V8435/150/09	V8435/180/09	V8435/220/09	V8435/320/09	V8435/400/09
30x30	V8435/040/10	V8435/060/10	V8435/080/10	V8435/100/10	V8435/120/10	V8435/150/10	V8435/180/10	V8435/220/10	V8435/320/10	V8435/400/10
30x40	V8435/040/11	V8435/060/11	V8435/080/11	V8435/100/11	V8435/120/11	V8435/150/11	V8435/180/11	V8435/220/11	V8435/320/11	V8435/400/11
40x10	V8435/040/12	V8435/060/12	V8435/080/12	V8435/100/12	V8435/120/12	V8435/150/12	V8435/180/12	V8435/220/12	V8435/320/12	V8435/400/12
40x15	V8435/040/13	V8435/060/13	V8435/080/13	V8435/100/13	V8435/120/13	V8435/150/13	V8435/180/13	V8435/220/13	V8435/320/13	V8435/400/13
40x20	V8435/040/14	V8435/060/14	V8435/080/14	V8435/100/14	V8435/120/14	V8435/150/14	V8435/180/14	V8435/220/14	V8435/320/14	V8435/400/14
40x30	V8435/040/15	V8435/060/15	V8435/080/15	V8435/100/15	V8435/120/15	V8435/150/15	V8435/180/15	V8435/220/15	V8435/320/15	V8435/400/15
40x40	V8435/040/16	V8435/060/16	V8435/080/16	V8435/100/16	V8435/120/16	V8435/150/16	V8435/180/16	V8435/220/16	V8435/320/16	V8435/400/16
50x10	V8435/040/17	V8435/060/17	V8435/080/17	V8435/100/17	V8435/120/17	V8435/150/17	V8435/180/17	V8435/220/17	V8435/320/17	V8435/400/17
50x15	V8435/040/18	V8435/060/18	V8435/080/18	V8435/100/18	V8435/120/18	V8435/150/18	V8435/180/18	V8435/220/18	V8435/320/18	V8435/400/18
50x20	V8435/040/19	V8435/060/19	V8435/080/19	V8435/100/19	V8435/120/19	V8435/150/19	V8435/180/19	V8435/220/19	V8435/320/19	V8435/400/19
50x30	V8435/040/20	V8435/060/20	V8435/080/20	V8435/100/20	V8435/120/20	V8435/150/20	V8435/180/20	V8435/220/20	V8435/320/20	V8435/400/20
50x40	V8435/040/21	V8435/060/21	V8435/080/21	V8435/100/21	V8435/120/21	V8435/150/21	V8435/180/21	V8435/220/21	V8435/320/21	V8435/400/21
60x15	V8435/040/22	V8435/060/22	V8435/080/22	V8435/100/22	V8435/120/22	V8435/150/22	V8435/180/22	V8435/220/22	V8435/320/22	V8435/400/22
60x20	V8435/040/23	V8435/060/23	V8435/080/23	V8435/100/23	V8435/120/23	V8435/150/23	V8435/180/23	V8435/220/23	V8435/320/23	V8435/400/23
60x30	V8435/040/24	V8435/060/24	V8435/080/24	V8435/100/24	V8435/120/24	V8435/150/24	V8435/180/24	V8435/220/24	V8435/320/24	V8435/400/24
60x40	V8435/040/25	V8435/060/25	V8435/080/25	V8435/100/25	V8435/120/25	V8435/150/25	V8435/180/25	V8435/220/25	V8435/320/25	V8435/400/25
60x15	V8435/040/26	V8435/060/26	V8435/080/26	V8435/100/26	V8435/120/26	V8435/150/26	V8435/180/26	V8435/220/26	V8435/320/26	V8435/400/26
60x20	V8435/040/27	V8435/060/27	V8435/080/27	V8435/100/27	V8435/120/27	V8435/150/27	V8435/180/27	V8435/220/27	V8435/320/27	V8435/400/27
60x30	V8435/040/28	V8435/060/28	V8435/080/28	V8435/100/28	V8435/120/28	V8435/150/28	V8435/180/28	V8435/220/28	V8435/320/28	V8435/400/28
60x40	V8435/040/29	V8435/060/29	V8435/080/29	V8435/100/29	V8435/120/29	V8435/150/29	V8435/180/29	V8435/220/29	V8435/320/29	V8435/400/29

V8440 Flanşlı Mop Zımpara



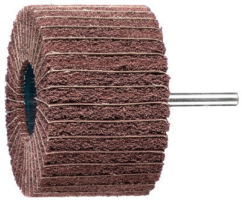
Kum	165x30x45	165x50x45	200x30x45	200x50x45	250x30x76	250x50x76
40	V8440/001	V8440/011	V8440/021	V8440/031	V8440/041	V8440/051
60	V8440/002	V8440/012	V8440/022	V8440/032	V8440/042	V8440/052
80	V8440/003	V8440/013	V8440/023	V8440/033	V8440/043	V8440/053
100	V8440/004	V8440/014	V8440/024	V8440/034	V8440/044	V8440/054
120	V8440/005	V8440/015	V8440/025	V8440/035	V8440/045	V8440/055
150	V8440/006	V8440/016	V8440/026	V8440/036	V8440/046	V8440/056
180	V8440/007	V8440/017	V8440/027	V8440/037	V8440/047	V8440/057
220	V8440/008	V8440/018	V8440/028	V8440/038	V8440/048	V8440/058
320	V8440/009	V8440/019	V8440/029	V8440/039	V8440/049	V8440/059
400	V8440/010	V8440/020	V8440/030	V8440/040	V8440/050	V8440/060

V8445 Saplı Skoch



Sipariş Kodu	Ölçü DxL
V8445/10	20x15
V8445/20	20x20
V8445/30	25x15
V8445/40	25x20
V8445/50	25x30
V8445/60	30x10
V8445/70	30x15
V8445/80	30x20
V8445/90	30x30
V8445/100	40x10
V8445/110	40x15
V8445/120	40x20
V8445/130	40x30
V8445/140	50x20
V8445/150	50x30
V8445/160	50x40
V8445/170	60x15
V8445/180	60x20
V8445/190	60x30
V8445/200	60x40
V8445/210	60x50
V8445/220	80x20
V8445/230	80x30
V8445/240	80x40
V8445/250	80x50

V8445Z Saplı Skoch + Zımpara



Sipariş Kodu	Ölçü DxL
V8445Z/10	20x15
V8445Z/20	20x20
V8445Z/30	25x15
V8445Z/40	25x20
V8445Z/50	25x30
V8445Z/60	30x10
V8445Z/70	30x15
V8445Z/80	30x20
V8445Z/90	30x30
V8445Z/100	40x10
V8445Z/110	40x15
V8445Z/120	40x20
V8445Z/130	40x30
V8445Z/140	50x20
V8445Z/150	50x30
V8445Z/160	50x40
V8445Z/170	60x15
V8445Z/180	60x20
V8445Z/190	60x30
V8445Z/200	60x40
V8445Z/210	60x50
V8445Z/220	80x20
V8445Z/230	80x30
V8445Z/240	80x40
V8445Z/250	80x50

V8445 Flap Skochlar

Skoch



V8445/10

Skoch + Zımpara



V8445/20

Sipariş Kodu	Ebat	Kutu Adedi
V8445/10	Ø 115 x 22	10
V8445/20	Ø 115 x 22	10

V8447 Elyaf Plaka



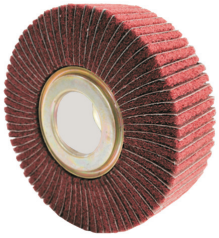
Sipariş Kodu	Ebat	Kutu Adedi
V8447	230x280	10

V8449 Skoch Mop Zımparalar



Metal Flanşlı Göbek Skoch

Sipariş Kodu	Ölçü
V8449MS/10	165x30x45
V8449MS/20	165x50x45
V8449MS/30	200x50x76
V8449MS/40	250x50x76



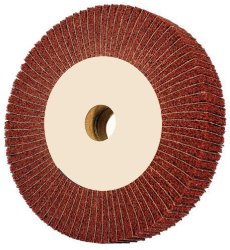
Metal Flanşlı Göbek Skoch + Zımpara

Sipariş Kodu	Ölçü
V8449MSZ/10	165x30x45
V8449MSZ/20	165x50x45
V8449MSZ/30	200x50x76
V8449MSZ/40	250x50x76



MDF GöbeK Skoch

Sipariş Kodu	Ölçü
V8449MD/10	165x30x45
V8449MD/20	165x50x45
V8449MD/30	200x50x76
V8449MD/40	250x50x76



MDF GöbeK Skoch + Zımpara

Sipariş Kodu	Ölçü
V8449MDZ/10	165x30x45
V8449MDZ/20	165x50x45
V8449MDZ/30	200x50x76
V8449MDZ/40	250x50x76

V8700 Elmas Pasta



Sipariş Kodu	Alt Kodu	Mikron	Renk	Ambalaj	Elmas Bileşeni	
V84700-01	1/10 KD-C1	1/10	Beyaz	5 gr. Vidalı	14.000	Ayna Parlaklığı
V84700-02	1/4 KD-C1	1/4	Gri	5 gr. Vidalı	25.000	
V84700-03	1 KD-C1	1	Mavi	5 gr. Vidalı	14.000	
V84700-04	3 KD-C1	3	Yeşil	5 gr. Vidalı	8.000	
V84700-05	6 KD-C1	6	Sarı	5 gr. Vidalı	3.000	Çizgi Alma
V84700-06	8 KD-C1	8	Kırmızı	5 gr. Vidalı	1.800	
V84700-07	14 KD-C1	14	Kahverengi	5 gr. Vidalı	1.200	
V84700-08	25 KD-C1	25	Bordo	5 gr. Vidalı	800	Tesviye
V84700-09	45 KD-C1	45	Turuncu	5 gr. Vidalı	300	
V84700-10	60 KD-C1	60	Kırmızı	5 gr. Vidalı	230	
V84700-11	90 KD-C1	90	Siyah	5 gr. Vidalı	170	

V8702 Nacta Tüplü Model



Sipariş Kodu	Mikron	Gramaj	
V8702-01	0-1 Inch	40 gr.	Fırça Keçe İzi
V8702-02	2-1 Inch		
V8702-03	3-2 Inch		Ayna Parlaklığı
V8702-04	5-3 Inch		
V8702-05	5-7 Inch		
V8702-06	7-10 Inch		Tesviye Polisaj
V8702-07	14-20 Inch		
V8702-08	20-28 Inch		Aşındırma
V8702-09	40-60 Inch		

V8704 SDP Impex Elmas Pastalar



Sipariş Kodu	Mikron	Elmas Bileşeni	Ağırlık
V8704-01	1/0	60.000 Mesh	20 gr.
V8704-02	2/1	14.000 Mesh	20 gr.
V8704-03	3/2	8.000 Mesh	20 gr.
V8704-04	5/3	4.000 Mesh	20 gr.
V8704-05	7/5	3.000 Mesh	20 gr.
V8704-06	10/7	1.700 Mesh	20 gr.
V8704-07	14/10	1.500 Mesh	20 gr.
V8704-08	20/14	1.100 Mesh	20 gr.
V8704-09	28/20	800 Mesh	20 gr.
V8704-10	40/28	550 Mesh	20 gr.
V8704-11	60/40	500 Mesh	20 gr.

V8706 Stick Elmas Pastalar



Sınıfı	Mikron	Renk	5gr. Aplikatör	5gr. Şırınga	5gr. Stick
			Sipariş Kodu	Sipariş Kodu	Sipariş Kodu
1/10 W-C1	1/10	Gri	V8706-01	V8706-12	V8706-23
1/4 W-C1	1/4	Gri	V8706-02	V8706-13	V8706-24
1 W-C1	1	Mavi	V8706-03	V8706-14	V8706-25
3 W-C1	3	Yeşil	V8706-04	V8706-15	V8706-26
6 W-C1	6	Sarı	V8706-05	V8706-16	V8706-27
8 W-C1	8	Kırmızı	V8706-06	V8706-17	V8706-28
14 W-C1	14	Kahverengi	V8706-07	V8706-18	V8706-29
25 W-C1	25	Kızıl Kahve	V8706-08	V8706-19	V8706-30
45 W-C1	45	Mor	V8706-09	V8706-20	V8706-31
60 W-C1	60	Turuncu	V8706-10	V8706-21	V8706-32
90 W-C1	90	Beyaz	V8706-11	V8706-22	

V8710 Sıvı Pasta ve Solüsyon



Bu sıvı kalıp parlatma esnasında
Yüzey temizleme, Yumuşatma, Taşın kesme özelliğini arttırma ve taşın kırılmasını önlemek amacıyla üretilmiştir.

Sipariş Kodu	Mikron	Standart	Ambalaj	Üretici Kodu	
V84710-01	1	K	400 gr.	211004	Ayna Parlaklığı
V84710-02	2	K	400 gr.	211005	
V84710-03	3	K	400 gr.	211006	
V84710-04	4,5	K	400 gr.	211007	
V84710-05	6	K	400 gr.	211008	Lepleme Tesviye
V84710-06	8	K	400 gr.	211009	
V84710-07	10	K	400 gr.	211010	
V84710-08	14	K	400 gr.	211011	
V84710-09	25	K	400 gr.	211012	Hızlı Aşındır.
V84710-10	45	K	400 gr.	211013	

V8711 Elmas Macun Nemlendirici Sıvı



Beyaz nemlendirici, gaz taşı, zımpara ve lepleme işlemleri sırasında kullanılır.

Mavi nemlendirici, elmas pasta'nın nemlendirme işleminde kullanılır.

Keçe, tel fırça, kıl fırça işlemleri esnasında elmas pasta ile daha iyi bir sonuç elde etmek için kayganlaştırıcı olarak kullanılır.

Sipariş Kodu 400 gr.	Sipariş Kodu 2,5 Lt.	Tipi	Renk	Çözülme
V84711-01	V84711-06	W	Şeffaf	Su
V84711-02	V84711-07	W2	Sarı	Su
V84711-03	V84711-08	OS	Mavi	Yağ
V84711-04	V84711-09	LS	Mavi	Yağ/Su
V84711-05	V84711-10	K	Şeffaf	Yağ

V8712 Lepleme Pastası



Sipariş Kodu	Mikron	Ağırlık	FEPA Kumlar	Üretici Kodu
V84712-01	109	1 Kg.	120	361689
V84712-02	69	1 Kg.	180	361549
V84712-03	58	1 Kg.	220	361550
V84712-04	36,5	1 Kg.	280	361538
V84712-05	29,2	1 Kg.	320	361558
V84712-06	22,8	1 Kg.	360	361548
V84712-07	17,3	1 Kg.	400	361551
V84712-08	9,3	1 Kg.	600	361514
V84712-09	6,5	1 Kg.	800	362616
V84712-10	4,5	1 Kg.	1000	361552
V84712-11	3	1 Kg.	1200	361547

M5350 Kalıp Parlatma Tozu



Kalıp polisaj işlemi bittikten sonra, yüzeyde kalan elmas pasta ve kimyasal nemlendiricilerin bırakmış olduğu nemli ve mat yüzeyü temizleyerek ayna parlaklığı elde etmenize yardımcı olan kullanışlı bir üründür.

V8730 Lepleme Seti 3lü



Pleytler	Ölçü
Bakır	150 cm
Stango	150 cm
XP	150 cm
Stick Pasta	10 gr. - 25 Mikron
Stick Pasta	10 gr. - 8 Mikron
Stick Pasta	10 gr. - 3 Mikron
Nemlendirici	450 gr. - Sıvı O.S.

V8740 Lepleme Seti Tekli



Pleytler	Ölçü
XP	348 cm
Stick Pasta	10 gr. - 3 Mikron
XP	450 gr. - Sıcı O.S.

V8720 Parlatma Tahtaları

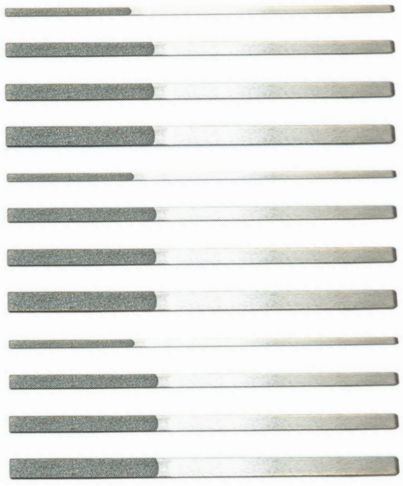


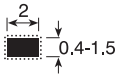
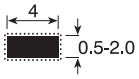
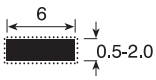
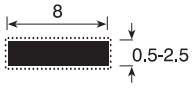
Sert ve Yumuşak
Standart boy= 150 mm

Sipariş Kodu **Sert**	Sipariş Kodu **Yumuşak**	Tip	Ölçü
V84720-01	V84720-09	□	4x4x150
V84720-02	V84720-10	□	6x6x150
V84720-03	V84720-11	□	4x6x150
V84720-04	V84720-12	▭	8x12x150
V84720-05	V84720-13	▭	8x18x150
V84720-06	V84720-14	Ø	3x150
V84720-07	V84720-15	Ø	4,5x150
V84720-08	V84720-16	Ø	6,5x150

Elmas Eğeler

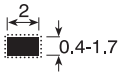
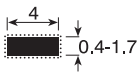
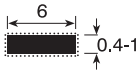
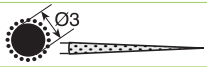
CF400 Besdia Elmas Eğe



Sipariş Kodu	Form (mm)	Boy (mm)	Elmas Boyu (mm)	Kum
CF-402J CF-402F CF-402V		180	40	150 200 400
CF-404J CF-404F CF-404V		180	50	150 200 400
CF-406J CF-406F CF-406V		180	50	150 200 400
CF-408J CF-408F CF-408V		180	50	150 200 400
CF-400	Pvc Ambalajlı 12li Takım Set			

PFT-100 Besdia Elmas Eğe



Sipariş Kodu	Form (mm)	Boy (mm)	Elmas Boyu (mm)	Kum
PTF-12F PTF-12V PTF-12X		130	30	200 400 600
PTF-14F PTF-14V PTF-14X		130	30	200 400 600
PTF-16F PTF-16V PTF-16X		130	30	200 400 600
PTF-103X		140	50	600
PTF-100	Pvc Ambalajlı 10'lu Takım			

MTP-120 Besdia Elmas Eğe



Sipariş Kodu	Form (mm)	Boy (mm)	Elmas Boyu (mm)	Kum
MTP-12J	2 / 0.3 - 1.4	72	25	150
MTP-12F				200
MTP-12H				300
MTP-12V				400
MTP-14J	4 / 0.3 - 1.4	72	25	150
MTP-14F				200
MTP-14H				300
MTP-14V				400
MTP-16J	6 / 0.3 - 1.1	72	25	150
MTP-16F				200
MTP-16H				300
MTP-16V				400
MTP-120	PVC Ambalajlı 12'li takım			

MTF-100 Besdia Elmas Eğe



Sipariş Kodu	Form (mm)	Boy (mm)	Elmas Boyu (mm)	Kum
MTF-13F	3 / 0.3 - 1.4	72	15	200
MTF-13V				400
MTF-13X				600
MTF-16F	6 / 0.3 - 1.4	72	15	200
MTF-16V				400
MTF-16X				600
MTF-23F	3 / 0.3 - 1.4	56	15	200
MTF-23V				400
MTF-23X				600
MTF-26F	6 / 0.3 - 1.4	56	15	200
MTF-26V				400
MTF-26X				600
MTF-100	Ambalaj: PVC Ambalajda 12'li tak›m			

FAS 600 Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
FA -601		90	60	10	1	150 & 600
FA -602		90	60	8	1	150 & 600
FA -603		70	40	6	0.8	150 & 600
FA -604		60	25	4	0.8	150 & 600
FA -605		45	15	2	0.8	150 & 600
FAS -600	Ahşap Kutuda 2x5=10'lu Takım					

PF10L Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
PF-101		140	50	1.5	6	120
PF-102		140	50	2	5	120
PF-103		140	50	3	Ø	120
PF-104		140	50	2.5	2.5	120
PF-105		140	50	3.5	3.5	120
PF-106		140	50	1.5	5.4	120
PF-107		140	50	6	1.7	120
PF-108		140	50	2	6	120
PF-109		140	50	2	5	120
PF-110		140	50	1.5	6	120
PF-100L	Pvc Ambalajlı 10lu Takım Set					

PFL10 Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
PFL-101		180	50	1.5	5.5	200
PFL-102		180	50	2	5	200
PFL-103		180	50	3	Ø	200
PFL-104		180	50	2.5	2.5	200
PFL-105		180	50	3.5	3.5	200
PFL-106		180	50	1	5.5	200
PFL-107		180	50	0.5	5.5	200
PFL-108		180	50	0.8	5.5	200
PFL-109		180	50	2	Ø	200
PFL-110		180	50	1.5	5.5	200
PFL-10	Ahşap Kutuda 10lu Takım Set					

PF20 Besdia Elmas Eğe



Sipariş Kodu 120 Kum	Sipariş Kodu 200 Kum	Sipariş Kodu 400 Kum	Form	Boy (mm)
PF -201	PF -201F	PF -201V		8.5 x 1.6
PF -202	PF -202F	PF -202V		7 x 2.5
PF -203	PF -203F	PF -203V		Ø4
PF -204	PF -204F	PF -204V		3.5
PF -205	PF -205F	PF -205V		4.5
PF-200	Pvc Ambalajlı 5li Takım			

PF70 Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
PF-705		140	40~50	0.5	5.5	150
PF-708		140	40~50	0.8	5.5	150
PF-710		140	40~50	1.0	5.5	150
PF-70	Pvc Ambalajlı 3lü Takım Set					

IF-50 Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
IF-501		215	80	3.5	11	100
IF-502		215	80	4.4	10.5	100
IF-503		215	80	5	Ø	100
IF-504		215	80	6.3	6.3	100
IF-505		215	80	7.7	7.7	100
IF-50	PVC Ambalajda 5'li Takım					

BF-60 Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
BF-601	▬	140	30	1.3	6	150
BF-602	◠	140	30	2	5	150
BF-603	●	140	30	3	Ø	150
BF-604	■	140	30	2.5	2.5	150
BF-605	▲	140	30	3.5	3.5	150
BF-60	PVC Ambalajda 5'li Takım					

MBF-60 Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
MBF-601	▬	85	30	1.2	4	150
MBF-602	◠	85	30	2	5	150
MBF-603	●	85	30	3	Ø	150
MBF-604	■	85	30	2.5	2.5	150
MBF-60	PVC Ambalajda 4'lü tak›m					

BF-90 Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
BF-901		140	20	1.3	6	150
BF-902		140	20	2.5	2.5	150
BF-903		140	20	1.5	3.5	150
BF-904		140	20	3.5	3.5	150
BF-905		140	20	2	5	150
BF-906		140	20	1.5	3.5	150
BF-907		140	20	2	3.5	150
BF-908		140	20	3	Ø	150
BF-910		140	20	2.3	Ø	150
BF-909		140	20	5	1.5	150
BF-90	Pvc Ambalajlı 10lu Takım Set					

BF80 Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kum
BF-801		155	20	200
BF-802		155	20	200
BF-803		155	15	200
BF-804		155	30	200
BF-805		155	25	200
BF-806		155	30	200
BF-80	Ahşap Kutuda 6lı Takım Set			

MPF-10 Besdia Elmas Eğe



Sipariş Kodu	Form	Boy (mm)	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
MPF-101		90	45	1.2	4	150
MPF-102		90	45	2	5	150
MPF-103		90	45	3	Ø	150
MPF-104		90	45	2.5	2.5	150
MPF-109		90	45	2	5	150
MPF-10	Pvc Ambalajlı 5li Makina Eğe Takım Set					

CF50 Besdia Elmas Eğe



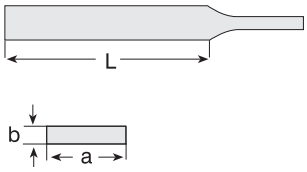
Sipariş Kodu	Form	Boy (mm	Elmas Boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
CF-501		180	70	0.9 - 2.8	10	200
CF-502		180	60	0.4 - 2.5	8	200
CF-503		180	60	0.4 - 2.5	6	200
CF-504		180	50	0.4 - 2.0	4	200
CF-505		180	50	0.6 - 2.2	1.2 - 4	200
CF-50	Ahşap Kutuda 5li Takım Set					

BH/1-100 Tesviyevi Eğesi Lama



Sipariş Kodu	Ölçü	Diş	a	b	L
BH/1-100-04	4''	Kaba Orta İnce	10	2.5	100
BH/1-100-06	6''		16	4.0	150
BH/1-100-08	8''		20	5.0	200
BH/1-100-10	10''		25	6.5	250
BH/1-100-12	12''		30	7.0	300

Sipariş Örneği | Kod-Diş



BH/1-210 Tesviyevi Eğesi Yarım Yuvarlak



Sipariş Kodu	Ölçü	Diş	a	b	L
BH/1-210-04	4''	Kaba Orta İnce	10	3.3	100
BH/1-210-06	6''		16	5.0	150
BH/1-210-08	8''		20	6.0	200
BH/1-210-10	10''		25	7.0	250
BH/1-210-12	12''		30	9.0	300

BH/1-143 Tesviyevi Eğesi Torna - Mil



Sipariş Kodu	Ölçü	Diş	a	b	L
BH/1-143-04	4''	Kaba Orta İnce	10	2.5	100
BH/1-143-06	6''		16	4.0	150
BH/1-143-08	8''		20	5.0	200
BH/1-143-10	10''		25	6.5	250
BH/1-143-12	12''		30	7.0	300

BH/1-230 Tesviyevi Eğesi Yuvarlak



Sipariş Kodu	Ölçü	Diş	b	L
BH/1-230-04	4''	Kaba Orta İnce	Ø4	100
BH/1-230-06	6''		Ø6	150
BH/1-230-08	8''		Ø8	200
BH/1-230-10	10''		Ø10	250
BH/1-230-12	12''		Ø12	300

BH/1-160 Tesviyevi Eğesi Torna - Kare



Sipariş Kodu	Ölçü	Diş	a	L
BH/1-160-04	4''	Kaba Orta İnce	4	100
BH/1-160-06	6''		5	150
BH/1-160-08	8''		6	200
BH/1-160-10	10''		8	250
BH/1-160-12	12''		10	300

BH/1-170 Tesviyevi Eğesi Üçgen



Sipariş Kodu	Ölçü	Diş	a	L
BH/1-170-04	4''	Kaba Orta İnce	7	100
BH/1-170-06	6''		9	150
BH/1-170-08	8''		11	200
BH/1-170-10	10''		14	250
BH/1-170-12	12''		17	300

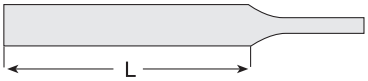
BH/FM10 Tesviyevi Eğesi Alüminyum



Sipariş Kodu	Ölçü	Diş	a	b	L
BH/FM10-10	10''	Kaba	25	6.0	250
BH/FM10-12	12''		30	6.5	300

BH/2-300 Saatçi Eğeler Lama





Sipariş Kodu	Sap	a x b	L	İşleme
BH/2-300-16	Ø	5.5x1.35	140	4 Taraf
BH/2-300-20	3	6.2x1.45	160	

BH/2-303 Saatçi Eğeler Kare



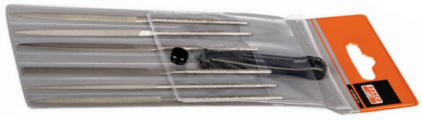
Sipariş Kodu	Sap	a (Konik)	L	İşleme
BH/2-303-16	Ø	1.3x2.5	140	4 Taraf
BH/2-303-20	3	1.4x2.7	160	

BH/2-304 Saatçi Eğeler Yarım Yuvarlak



Sipariş Kodu	Sap	a (Konik)	L	İşleme
BH/2-304-16	Ø	5.0x1.75	140	4 Taraf
BH/2-304-20	3	5.5x2.0	160	

BH/2-470-16-2-0 Saatçi Eğe Setleri



6lı Set BAHCO

BH/2-307 Saatçi Eğeler Yuvarlak



Sipariş Kodu	Sap	a x b	L	İşleme
BH/2-307-16	Ø	1.1x2.8	140	4 Taraf
BH/2-307-20	3	1.2x3.0	160	

1720D/B6 Saatçi Eğe Setleri



6lı Set BETA

BH/2-302 Saatçi Eğeler Üçgen



Sipariş Kodu	Sap	a (Konik)	L	İşleme
BH/2-302-16	Ø	1.0x3.2	140	3 Taraf
BH/2-302-20	3	1.3x3.4	160	

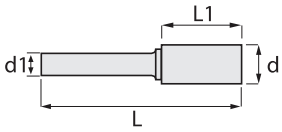
BH/1-143 Saatçi Eğe Setleri



10lu Set ÇİN

V8880 Kalıpçı Tip Karbür Frezeler





Sipariş Örneği	V8880/Kod-Tip
Sipariş	V8880/SA42-B



Tip A: Genel işlemler için standart kesim sağlar.
Tip B: Genel amaçlı kullanım içindir ve çapraz dişlere sahiptir. Talaş tahliyesini incelterek ve kontrollü sağlar. Çapraz dişler, geleneksel dişlere kıyasla daha yüksek bir kesme kapasitesi sağlar.
Tip C: En sert malzemeler ve en iyi yüzeyler için.
Tip D: Alüminyum dişli. Demir dışı metaller, alüminyum, pirinç, bakır, döküm, çinko ve plastikler. Çapak almak, pah kırmak, ince düzeltmeler ve yüzey işlemek için.

Silindir - Karbür Freze DIN8033

SA Seri

Kod	d	d1	L1	L	Tip
SA42	2.5	3	11	38	
SA43	3.0		14	38	B
SA14	5.0	6	16	50	A
SA1	6.0		16	50	C
SA3	9.5		19	63	D
SA5	12.7		25	69	



Tepe Kesicili Karbür Freze

SB Seri

Kod	d	d1	L1	L	Tip
SB42	2.5	3	11	38	
SB43	3.0		14	38	B
SB14	5.0	6	16	50	A
SB1	6.0		16	50	C
SB3	9.5		19	63	D
SB5	12.7		25	69	



Radyüs Uçlu Karbür Freze

SC Seri

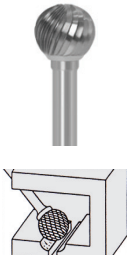
Kod	d	d1	L1	L	Tip
SC42	3.0	3	14	38	
SC42ML2	3.0		14	50	B
SC14	5.0	6	16	50	A
SC1	6.0		16	50	C
SC3	9.5		19	63	D
SC5	12.7		25	69	



Küresel Karbür Freze

SD Seri

Kod	d	d1	L1	L	Tip
SD42	2.5	3	2.3	38	
SD43	3.0		2.5	38	B
SD14	5.0	6	4.0	50	A
SD1	6.0		5.0	50	C
SD3	8.0		6.4	50	D
SD5	9.5		8.0	52	



Konik Sivri Uçlu Karbür Freze

SG Seri

Kod	d	d1	L1	L	Tip
SG42	3.0	3	6.0	38	
SG43	3.0		9.5	38	B
SG14	6.0	6	16	50	A
SG1	8.0		19	63	C
SG3	12.7		25	69	D
SG5	16		25	69	



Oval Şekilli Karbür Freze

SH Seri

Kod	d	d1	L1	L	Tip
SH41	3.0	3	6.3	38	
SH4ML	3.0		6.3	50	B
SH1	6.0	6	9.5	50	A
SH2	8.0		19	63	C
SH5	12.7		32	76	D
SH6	16		36	80	



Konik Radyüs Uçlu Karbür Freze

SL Seri

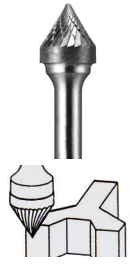
Kod	d	d1	L1	L	Tip
SL41	3.0	3	9.5	38	
SL42	3.0		12.7	38	B
SL1	6.0	6	16	50	A
SL2	8.0		22	69	C
SL4	12.7		28	76	D
SL6	16		33	80	



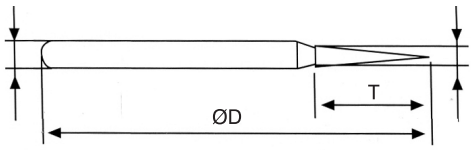
90° Konik Karbür Freze

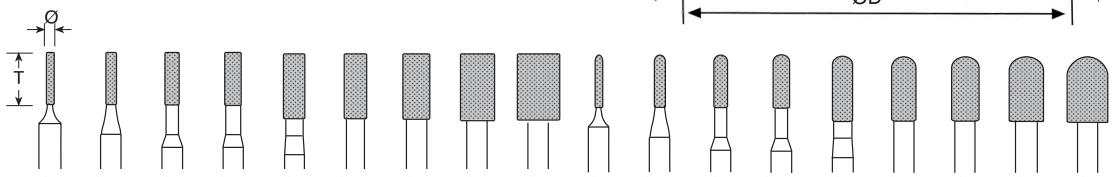
SK Seri

Kod	d	d1	L1	L	Tip
SK42	3.0	3	1.5	38	B
SK1	6.0	6	3.0	50	A
SK3	9.5		4.7	52	C
SK6	16		8	57	D

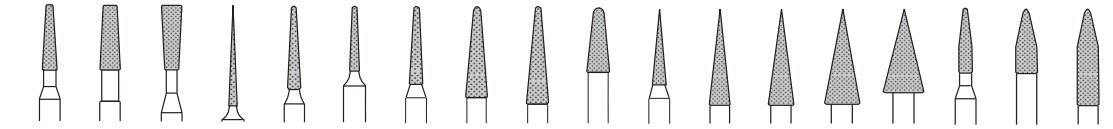


Püskürtme Elmas Spiral Frezeler (3mm Şaftlı)

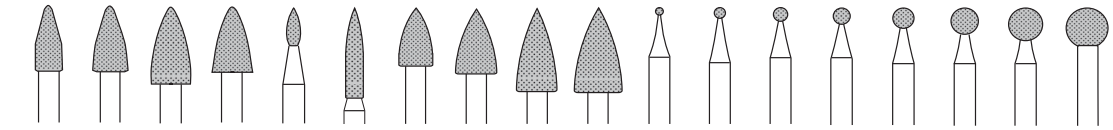




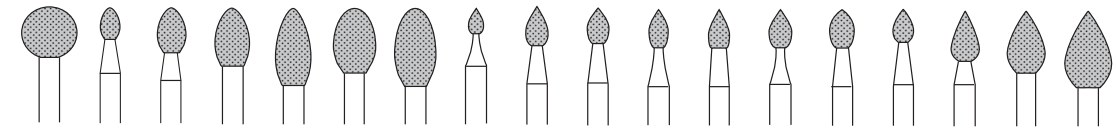
ØD	Ø1	Ø1.5	Ø2	Ø2.5	Ø3	Ø3.5	Ø4	Ø5	Ø6	Ø1	Ø1.5	Ø2	Ø2.5	Ø3	Ø3.5	Ø4	Ø5	Ø6
T	8	8	8	8	10	10	10	10	10	8	8	8	8	10	10	10	10	10
Sipariş Kodu	10A	15A	20A	25A	30A	35A	40A	50A	60A	10C	15C	20C	25C	30C	35C	40C	50C	60C



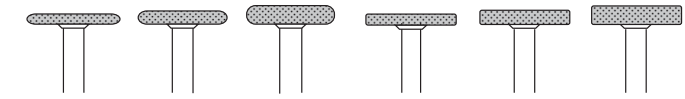
ØD	Ø2	Ø3	Ø3	Ø1.2	Ø1.5	Ø1.5	Ø2	Ø3	Ø3.3	Ø3.3	Ø2	Ø3	Ø4	Ø5	Ø6	Ø2	Ø3	Ø3.3
T	10	10	10	16	13	10	12	14	15	10	12	15	15	15	13	10	10	15
Sipariş Kodu	20T	30T	30V	13R	14R	15R	20R	30R	31R	32R	20P	30P	40P	50P	60P	20F	30F	33F



ØD	Ø4	Ø5	Ø6	Ø6	Ø2	Ø3	Ø4	Ø5	Ø5	Ø6	Ø1	Ø1.5	Ø2	Ø2.5	Ø3	Ø4	Ø5	Ø6
T	10	10	12	10	6	14	9	10	13	13	8	-	-	-	-	-	-	-
Sipariş Kodu	40F	50F	60F	61F	20J	30J	40J	50J	51J	60J	10B	15B	20B	25B	30B	40B	50B	60B



ØD	Ø8	Ø3	Ø4	Ø5	Ø5	Ø6	Ø6	Ø2	Ø3	Ø3	Ø3	Ø3	Ø3	Ø3	Ø3	Ø4	Ø5	Ø6
T	-	5	7	9	12	10	12	4	6	5.5	6	6	6	6	5	8	10	12
Sipariş Kodu	80B	30Q	40Q	50Q	51Q	60Q	61Q	20S	30S	31S	32S	33S	34S	35S	36S	40S	50S	60S



ØD	Ø13	Ø13	Ø13	Ø13	Ø13	Ø13
T	1.5	2	2.5	1.5	2	2.5
Sipariş Kodu	1315U	1320U	1325U	1315E	1320E	1325E

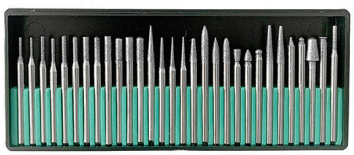
ØD 6mm ve üzeri : 100 kum
2 - 5mm : 120 kum
1.5 mm ve altı : 150 kum

V8882 Elmas CBN Set 30'lu



Set İçeriği - 1'er Adet:
PEF.10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A, 20B, 30B, 50B, 15C, 20C, 25C, 30C, 35C, 40C,50C, 20P, 30P, 15R, 20R, 30R, 30S, 20F, 30F, 50F, 20T, 30T ve 30V.

V8884 Elmas CBN Set Ekonomik



Set İçeriği - 1'er Adet:
PEF.10A, 15A, 20A, 25A, 30A, 35A, 15C, 20C,25C ,30C, 20P, 30P, 15R, 20R, 30R, 20B, 30B, 20F, 30F ve 20T.

KRB51 Çelik Taşları Silindirik ve Satıh Taşlama EKR (Kum) K6 VN



Sipariş Örneği KRB51/Ebat/Kum

Ebat			Kum		
Çap	Kalınlık	Delik Ø	36	46	60
Ø 150 x 20 x 20			●	●	●
Ø 175 x 20 x 20			●	●	●
Ø 200 x 20 x 20				●	●
Ø 250 x 25 x 76.2			●	●	●
Ø 250 x 30 x 76.2			●	●	●
Ø 250 x 32 x 76.2			●	●	●
Ø 250 x 40 x 76.2			●	●	●
Ø 300 x 40 x 76.2				●	●
Ø 300 x 40 x 127			●	●	●
Ø 350 x 40 x 127			●	●	●
Ø 350 x 50 x 127			●	●	●
Ø 400 x 40 x 127			●	●	●

KRB53 Zımpara Taşları - Yüzey Silindirik ve Satıh Taşlama NK



Sipariş Örneği KRB53/Ebat/Kum

Ebat			Kum			
Çap	Kalınlık	Delik Ø	24	36	46	60
Ø 75 x 13 x 10				●	●	●
Ø 100 x 13 x 10				●	●	●
Ø 100 x 16 x 20				●	●	●
Ø 125 x 16 x 16				●	●	●
Ø 125 x 20 x 20			●	●	●	●
Ø 150 x 20 x 20			●	●	●	●
Ø 150 x 25 x 20			●	●	●	●
Ø 175 x 20 x 20			●	●	●	●
Ø 175 x 25 x 20			●	●	●	●
Ø 200 x 20 x 20			●	●	●	●
Ø 200 x 25 x 20			●	●	●	
Ø 200 x 30 x 20			●	●	●	
Ø 200 x 32 x 20			●	●	●	
Ø 250 x 25 x 25			●	●	●	
Ø 250 x 30 x 25			●	●	●	
Ø 250 x 32 x 25			●	●	●	
Ø 250 x 40 x 25			●	●	●	

KRB55 Elmas Bileme Taşı Evsaf: SCG 80 J5 V



Sipariş Örneği KRB55/Ebat/Kum

Ebat			Kum	
Çap	Kalınlık	Delik Ø	60/80	80/100
Ø 125 x 20 x 20			●	●
Ø 150 x 20 x 20			●	●
Ø 150 x 25 x 20			●	●
Ø 175 x 20 x 20			●	●
Ø 175 x 25 x 20			●	●
Ø 200 x 20 x 20			●	●
Ø 200 x 25 x 20			●	●
Ø 200 x 32 x 20			●	●
Ø 250 x 25 x 25			●	●
Ø 250 x 32 x 25			●	●
Ø 300 x 32 x 30			●	●

KRB57 Testere Taşları



Sipariş Örneği KRB57/Ebat/Kum

Ebat			Kum	
Çap	Kalınlık	Delik Ø	NK 60/80	EKR 60
Ø 150 x 6.0 x 20			●	●
Ø 150 x 8.0 x 20			●	●
Ø 150 x 10 x 20			●	●
Ø 175 x 8.0 x 20			●	●
Ø 175 x 10 x 20			●	●
Ø 200 x 8.0 x 20			●	●
Ø 200 x 10 x 20			●	●
Ø 250 x 10 x 25			●	●

KRB59 Düz Tip Çanak Taş



Sipariş Örneği KRB59/Ebat/Kum

Form - Ebat	Artikel
D - Ø 50	14100
D - Ø 75	14110
D - Ø 100	14120
D - Ø 125	14130
D - Ø 150	14140

KRB61 Konik Tip Çanak Taş



Sipariş Örneği KRB61/Ebat/Kum

Form - Ebat	Artikel
E - Ø 50	14100
E - Ø 75	14110
E - Ø 100	14120
E - Ø 125	14130
E - Ø 150	14140

KRB63 NK Taşlama Taşı A24 RS BF80



Sipariş Örneği KRB63/Ebat/Kum

Form - Ebat	Kum	
	NK 60/80	EKR 60
Ø 150 x 6.0 x 20	●	●
Ø 150 x 8.0 x 20	●	●
Ø 150 x 10 x 20	●	●
Ø 175 x 8.0 x 20	●	●
Ø 175 x 10 x 20	●	●
Ø 200 x 8.0 x 20	●	●
Ø 200 x 10 x 20	●	●
Ø 250 x 10 x 25	●	●

KRB65 INOX Taşlama Taşı AA24 P BF80



Sipariş Örneği KRB65/Ebat/Kum

Ebat			Sipariş Kodu	
Çap	Kalınlık	Delik Ø	R.P.M	Artikel
Ø 115	x 6.4	x 22	13300	10680
Ø 125	x 6.4	x 22	12250	10690
Ø 180	x 6.4	x 22	8500	10700
Ø 180	x 8.0	x 22	8500	10710
Ø 230	x 6.4	x 22	6650	10720

KRB67 ZİRKON Taşlama Taşı ZA 24 R BF80



Sipariş Örneği KRB67/Ebat/Kum

Ebat			Sipariş Kodu	
Çap	Kalınlık	Delik Ø	R.P.M	Artikel
Ø 115	x 7.0	x 22	13300	10780
Ø 125	x 7.0	x 22	12250	10790
Ø 180	x 7.0	x 22	8500	10800
Ø 180	x 8.0	x 22	8500	11170
Ø 230	x 7.0	x 22	6650	10810

KRB69 Metal Kesme Taşları A36 T BF80



Sipariş Örneği KRB69/Ebat/Kum

Ebat			Sipariş Kodu	
Çap	Kalınlık	Delik Ø	R.P.M	Artikel
Ø 100	x 2.5	x 16	15300	10010
Ø 115	x 2.5	x 22	13300	10020
Ø 125	x 2.5	x 22	12250	10030
Ø 180	x 3.0	x 22	8500	10040
Ø 230	x 3.0	x 22	6650	10050

KRB71 INOX Kesme Taşları AA24 S BF80



Sipariş Örneği KRB71/Ebat/Kum

Ebat			Sipariş Kodu	
Çap	Kalınlık	Delik Ø	R.P.M	Artikel
Ø 115	x 2.5	x 22	13300	10190
Ø 125	x 2.5	x 22	12250	10200
Ø 180	x 3.0	x 22	8500	10210
Ø 230	x 3.0	x 22	6650	10220

KRB73 Mermer Kesme Taşları C 30 R BF80



Sipariş Örneği KRB73/Ebat/Kum

Ebat			Sipariş Kodu	
Çap	Kalınlık	Delik Ø	R.P.M	Artikel
Ø 180	x 3.2	x 22	8500	12760
Ø 230	x 3.2	x 22	6650	12750

KRB75 Sabit Tezgah Kesme Diskleri A30/36 P BF80



Sipariş Örneği KRB75/Ebat/Kum

Ebat			Sipariş Kodu	
Çap	Kalınlık	Delik Ø	MS	Artikel
Ø 300	x 3.0	x 25.4	80 m/s	10840
Ø 300	x 3.0	x 30	80 m/s	10850
Ø 350	x 3.5	x 25.4	80 m/s	10860
Ø 350	x 3.5	x 30	80 m/s	10870
Ø 400	x 4.0	x 40	80 m/s	10890

KRB77 INOX Thinline Kesme Taşı AA54 R BF80



Sipariş Örneği KRB75/Ebat/Kum

Çap Kalınlık Delik Ø	Sipariş Kodu	
	R.P.M	Artikel
Ø 115 x 1,0 x 22	13300	10380
Ø 115 x 1,2 x 22	13300	11680
Ø 115 x 1,6 x 22	13300	10390
Ø 125 x 1,0 x 22	12250	10400
Ø 125 x 1,6 x 22	12250	10410
Ø 180 x 1,9 x 22	8500	10420
Ø 230 x 1,9 x 22	6650	10430

KRB79 Al. Ox. Flap Diskler



Sipariş Örneği KRB79/Ebat/Kum

Ebat			
	40 Kum	60 Kum	80 Kum
Ø 100 x 16	●	●	●
Ø 115 x 22	●	●	●
Ø 125 x 22	●	●	●
Ø 180 x 22	●	●	●

KRB83 Zirkon Taşlama Taşı ZA 24 R BF80



Sipariş Örneği KRB83/Ebat/Kum

Ebat			
	40 Kum	60 Kum	80 Kum
Ø 115 x 22	●	●	●

KRB81 ZR (Zirkonyum) Flap Diskler



Sipariş Örneği KRB81/Ebat/Kum

Ebat			
	40 Kum	60 Kum	80 Kum
Ø 100 x 16	●	●	●
Ø 115 x 22	●	●	●
Ø 125 x 22	●	●	●
Ø 180 x 22	●	●	●

TDE102 Elmas Çizgi Kalemi



Sipariş Kodu	Ölçü (mm)
TDE102	160

TDE100 Taş Düzeltme Elması



Sipariş Kodu	Karat	MK
TDE100-030	030	1
TDE100-050	050	1
TDE100-075	075	1
TDE100-100	100	1
TDE100-150	150	1
TDE100-200	200	1
TDE100-250	250	1
TDE100-300	300	1
TDE100-400	400	1

GRY110 Blok Yüzey Silgisi



Sipariş Örneği GRY110/Kum

Temizleme, parlatma ve tesviyeleme işlemleri için kullanılır. Keskin aşındırıcı tanecikler ile formüle edilmiş çok amaçlı bir temizleyicidir. Hafif pas, leke ve kararmaları giderir. Metale parlaklığını geri kazandırır. Kuru veya ıslak kullanım için uygundur.
Blok Ölçüsü: 80 x 50 x 20 mm.

Ekstra Kalın - 36 kum (kırmızı)
Kalın - 60 kum (mavi)
Orta - 120 kum (gri)
İnce - 240 kum (kahverengi)

VRTW Ultrasonik Parlatma Makinası









Makine No. Sipariş No.	VRTW1800	VRTW1600	VRTW1400	VRTW600
Voltaj	AC 220V-50 Hz	AC 220V-50 Hz	AC 220V-50 Hz	AC 220V-50 Hz
Çıkış Gücü	50 W	50 W	100 W	45 W
Strok	250 W	250 W	Max. 45μm	Max. 45μm
Güç Tüketimi	HF-220V	HF-220V	HF-220V	HF-220V
Çalışma Zamanı	Otomatik	Otomatik	Otomatik	Otomatik
Operasyon Zamanı	Tek Vuruş	İki Operasyon	Tek Vuruş	Tek Vuruş
Ölçüler (mm)	300x180x140	315x120x185	315x120x185	210x135x90
Ağırlık	3.4 Kg.	3.5 Kg.	3.3 Kg.	1.6 Kg.

AR108 Ultrasonik Eğeleme Makinesi



U-LAP 106, özellikle feder ve yan yüzeylerin parlatılmasında süper hızlı bir makinedir. İşlem bitirme süresini geleneksel takımlara göre %50'ye kadar azaltmaya yardımcı olabilir. Tüm zor işlemleri gerçekleştirebilen gelişmiş ve teknolojik bir üründür.

Güç Kaynağı : AC 220
Ultrasonik Güç : 45W, level 2
Strok Aralığı : 10 - 35 mm
Titreşim : 15 - 25 khz
Makine Ölçüleri : 152 x 100 x 72 mm

STR204 Elektronik Döner Taşlama



Elektronik devir ayarlı kontrol ünitesi ile mikro motorlu döner aleti istenilen hızda başlatabilirsiniz. Ayak pedalı ile daha hızlı ve seri olarak çalışabilirsiniz. Bu pratik elektronik makine,masaüstünde hassas işlemlerin gerçekleştirilmesi için idealdir. Tesviye ve parlatma işlemlerinde ekonomik çözüm sağlar.

Rpm: 35.000 Pens Ø: 3mm
50 hz / 220 V

EVO190 Parlatma Seti Çoklu

190 Parça



İçerik :
- Elektrikli Döner Alet
- Kesici Separe Taşlar
- Matkap Uçları
- Elmas Frezeler
- Gaz Taşları
- Rulo Zımparalar
- Elmas Pasta
- Taşlama Taşları
- Tel Fırçalar
- Kıl Fırçalar
- Saplı Parlatma Taşları
- Saplı Keçeler
- Tutucular

Elektrikli Döner Alet Özellikleri :
- Güç: 135 Watt
- Voltaj: 230 V
- Frekans: 50 Hz.
- Devir Ayarlı: 10.000 - 32.000 Rpm
- Tutucular: Ø 1.6 mm / 2.4 mm / 3.2 mm

BM Elektrikli Spiral Motor



Kod	Motor Özellikleri
BM21A	Rpm: 15.000 Güç: 125 Watt
BM23A	Rpm: 25.000 Güç: 200 Watt
BM26A	Rpm: 25.000 Güç: 300 Watt
BM24A	Rpm: 22.500 Güç: 500 Watt

Sipariş Örneği BLK/Kod

Tesviye ve parlatma işlemlerinde ekonomik çözüm sağlar. Ayak Pedalı ile devir ayarları seri ve hassas şekilde yapılır. Güçlü motoru çalışma esnasında kullanıcıya kolaylık sağlar. Kamçıdaki döner spiral yay sadece 2,35 / 3 / 4 mm pensler ile kullanılacak takımlar içindir. Bununla birlikte bazı durumlarda, 6 mm pens yumuşak bir şekilde / bastırmadan kullanılabilir. Uzun süreli kullanımlarda yükselen ısıyı önlemek için kısa aralıklarla beklemek gerekebilir. Çalışmaların sürekliliğini sağlamak için yedek bir Kamçı Aparatı bulundurmak faydalı olacaktır.

EVOA145 Parlatma Seti Mini





İçerik:
- Kesici Separe Taşlar
- Matkap Uçları
- Elmas Frezeler
- Gaz Taşları
- Rulo Zımparalar
- Elmas Pasta
- Taşlama Taşları
- Tel Fırçalar
- Kıl Fırçalar
- Saplı Parlatma Taşları
- Saplı Keçeler
- Tutucular

BLKAK Motor Aksesuarları



Sipariş Örneği BLKAK/Kod

Sipariş Kodu	Aksesuar Tanımı
M19KK	Kamçı Aparatı 1040 mm
M19FTK	Mandallı Piyasemen Kamçı 1000 mm
YP...Ø	Yedek Pens 2.35 - 3 - 4 - 6 mm
BM...W	Elektrikli Spiral Motor Ayak Pedalı

TZ99A Motor Askı Aparatı



Elektrikli Spiral Motorun Ayak Pedalı ve kablo bağlantıları standart olarak ambalaj içinde mevcuttur. Motoru stabil bir şekilde kullanmak için Askı Aparatı kullanmanızı öneriyoruz. Askıda bulunan yay yardımıyla motordan kaynaklı olan titreşimler absorbe edilir ve titreşimlerin iş tezgahına geçmesi engellenmiş olur.

MGWS 90 — 90° Spiral Kollu Kalıpçı Taşlama

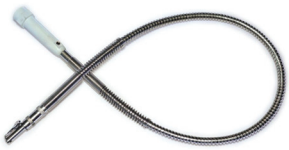
Aksesuarları



15 mm Alu. disk



3 mm pens



JGKM-10528





- Üniversal motorlarla uyumludur. Jak giriş kamçısıya birlikte çalışır.
- Muadillerine nazaran daha kompakt ve zor yerlerde çalışmaya uygundur.

Sipariş Kodu	Devir	Ölçü	Hareket	Renk
MGWS-90G		25 x 155 mm	Dairesel	Gold
MGWS-90B	22.000 d/dk.	25 x 155 mm	Dairesel	Siyah
JGKM-10528	Moldart jak girişli spiral kamçı			

MQR90SS — Devpa Ultrasonic Havalı 90° Eğeleme Sağ / Sol





Sipariş Kodu	Hareket	Ölçü	Hareket	Ağırlık
MQR90SS	1.8 x 0.7 mm	32 x 173 mm	Sağ / Sol	0,53 kg.
MQR90SS-AK01	Aksesuar			

MQR36D — Devpa Pnömatik Kalıpçı Taşlama 3-6 mm





Sipariş Kodu	Devir	Ölçü	Hareket	Ağırlık
MQR36D	30.000 d/dk.	27 x 165 mm	Dairesel	0,35 kg.
MQR36D-P3	3 mm pens			
MQR36D-P6	6 mm pens			

UTR Serisi / Taiwan

UTR-70 Havalı Kalem Diprofiller



Sipariş Kodu	Devir	Ölçü	Hareket	Ağırlık
UTR-70	35.000 d/dk.	28 x 200 mm	0,7 mm	200 gr.

UR-300 Havalı Kalem Diprofiller



Sipariş Kodu	Devir	Ölçü	Hareket	Ağırlık
UR-300	10.000 d/dk.	23 x 200 mm	3 mm	250 gr.

UTR-030 Havalı Kalem Diprofiller



Sipariş Kodu	Devir	Ölçü	Hareket	Ağırlık
UTR-030	40.000 d/dk.	28 x 200 mm	0,3 mm	200 gr.

TLS Serisi / Japan

TLS-07 Havalı Kalem Diprofiller



Sipariş Kodu	Devir	Ölçü	Hareket	Ağırlık
TLS-07	20.000 d/dk.	19 x 218 mm	0,7 mm	218 gr.

TLL-12 Havalı Kalem Diprofiller



Sipariş Kodu	Devir	Ölçü	Hareket	Ağırlık
TLL-12	15.000 d/dk.	19 x 218 mm	1,2 mm	180 gr.

TLS-12 Havalı Kalem Diprofiller



Sipariş Kodu	Devir	Ölçü	Hareket	Ağırlık
TLS-12	18.000 d/dk.	19 x 218 mm	1,2 mm	180 gr.

Havalı Mikro Kalıpçı Spiral Setleri

NSP-601 Havalı Mikro Kalıpçı Spiral / Japon



Sipariş Kodu	Devir	Ölçü	Pens	Ağırlık
NSP-601	50.000 d/dk.	19 x 218 mm	3 mm	180 gr.

MSG-3BSN Havalı Mikro Kalıpçı Spiral / U-Lap



Sipariş Kodu	Devir	Ölçü	Pens	Ağırlık
MSG-3BSN	65.000 d/dk.	161 x 216,7 mm	3 mm	130 gr.

UG-300 Havalı Mikro Kalıpçı Spiral / U-Lap



Sipariş Kodu	Devir	Ölçü	Pens	Ağırlık
UG-300	35.000 d/dk.	19 x 218 mm	3-6 mm	218 gr.

UG-400 Havalı Mikro Kalıpçı Spiral / U-Lap



Sipariş Kodu	Devir	Ölçü	Pens	Ağırlık
UG-400	60.000 d/dk.	19 x 218 mm	2,35 - 3 mm	180 gr.

UG-500 Havalı Mikro Kalıpçı Spiral



Sipariş Kodu	Devir	Ölçü	Pens	Ağırlık
UG-500	60.000 d/dk.	19 x 218 mm	2,35 - 3 mm	180 gr.

WP-54 Havalı Mikro Kalıpçı Spiral



Sipariş Kodu	Devir	Ölçü	Pens	Ağırlık
WP-54	54.000 d/dk.	19 x 218 mm	3 mm	180 gr.

WP-70 Havalı Mikro Kalıpçı Spiral



Sipariş Kodu	Devir	Ölçü	Pens	Ağırlık
WP-70	70.000 d/dk.	19 x 218 mm	0,3 mm	180 gr.

122 N Havalı Mikro Kalıpçı Spiral



Sipariş Kodu	Devir	Ölçü	Pens	Ağırlık
122 N	35.000 d/dk.	17 x 140 mm	13 mm	130 gr.

NAK-45 Havalı Mikro Kalıpçı Spiral



Sipariş Kodu	Devir	Ölçü	Disk	Pens	Ağırlık
NAK-45	23.500 d/dk.	17 x 140 mm	38 mm	3 mm	180 gr.

NAK-90 Havalı Mikro Kalıpçı Spiral



Sipariş Kodu	Devir	Ölçü	Bar	Taş	Ağırlık
NAK-90	23.500 d/dk.	17 x 140 mm	6 - 8 Bar	30 mm	170 gr.

NAK-121 N Havalı Mikro Kalıpçı Spiral



Sipariş Kodu	Devir	Ölçü	Bar	Pens	Ağırlık
NAK-121 N	23.500 d/dk.	18 x 145 mm	1,2 mm	3 mm	260 gr.

AKS01 Disk Lastiği



AKS02 Yapışkanlı Zımpara



AKS03 Disk Taşı



Havalı El Aletleri / OSAKA

OPT-P124

90° Açılı
Uzunluk : 160 mm
Pens Çapı: 6 mm
Taş Çapı: 38 mm
Boşta Devir: 20.000 rpm
Hortum Çap›: 9.5 mm
Hava Giriş Nipeli: 1/4”
Hava tüketimi: 178 lt/dk
Çalışma Bas›nc›: 90 psi (6.2 atü)
Ağırlık: 0.56 kg



OPT-P106B

Push Start
Uzunluk : 190 mm
Soket Karesi: 1/8”
Vida Çapı: 3.5 mm
Max.Tork: 0.1-0.8 Nm
Boşta Devir: 800 rpm
Hortum Çap›: 8 mm
Hava Giriş Nipeli: 1/4”
Hava tüketimi: 110 lt/dk
Çalışma Basıncı: 90 psi (6.2 atü)
Ağırlık: 0.30 kg



OPT-P122S5

Kalıpçı Taşlama
Uzunluk : 319 mm
Pens Çapı: 6 mm
Taş Çapı: 38 mm
Boşta Devir: 22.000 rpm
Hortum Çapı: 9.5 mm
Hava Giriş Nipeli: 1/4”
Hava tüketimi: 120lt/dk
Çalışma Bas›nc›: 90 psi (6.2 atü)
Ağırlık: 1.05 kg



OPT315

Eğe Motoru
Uzunluk : 290 mm
Kesme Kap.: Çelik 1.20
Alüminyum 2.00 mm
Boşta Devir: 2,600 rpm
Hortum Çap›: 9.5 mm
Hava Giriş Nipeli: 1/4”
Hava Tüketimi: 113 lt/dk
Çalışma Bas›nc›: 90 psi (6.2 atü)
Ağırlık: 1.05 kg



OPT70203

Eğe Motoru
Uzunluk : 185 mm
Stroke: 0.3 mm
Stroke Sayısı: 50.000 d/dk
Hortum Çap›: 9.5 mm
Hava Giriş Nipeli: 1/4”
Hava tüketimi: 370lt/dk
Çalışma Bas›nc›: 90 psi (6.2 atü)
Ağırlık: 0.20 kg



OPT70207

Eğe Motoru
Uzunluk : 185 mm
Stroke: 0.7 mm
Stroke Sayısı: 22.000 d/dk
Hortum Çapı: 9.5 mm
Hava Giriş Nipeli: 1/4”
Hava tüketimi: 370lt/dk
Çalışma Basıncı: 90 psi (6.2 atü)
Ağırlık: 0.20 kg



OPT70212

Eğe Motoru
Uzunluk : 185 mm
Stroke: 1.2 mm
Stroke Sayısı: 15.000 d/dk
Hortum Çapı: 9.5 mm
Hava Giriş Nipeli: 1/4”
Hava tüketimi: 370lt/dk
Çalışma Bas›nc›: 90 psi (6.2 atü)
Ağırlık: 0.20 kg



OPT-P120

Kalıpçı Taşlama
Uzunluk : 155 mm
Pens Çapı: 6 mm
Taş Çapı: 38 mm
Boşta Devir: 38.000 rpm
Hortum Çapı: 9.5 mm
Hava Giriş Nipeli: 1/4”
Hava tüketimi: 178lt/dk
Çalışma Bas›nc›: 90 psi (6.2 atü)
Ağırlık: 0.50 kg



OPT-4

Kalıpçı Taşlama Set
1 adet OPT 127
1 adet 1/8" Pens
1 adet 1/4" Pens
10 adet Saplı Taş
1 adet Plastik Çanta



OPT-P 4A

Kalıpçı Taşlama Set
1 adet OPT 123
1 adet 1/8" Pens
1 adet 1/4" Pens
10 adet Saplı Taş
1 adet Plastik Çanta



OPT-P515

Kalıpçı Taşlama
Uzunluk : 200 mm
Pens Çapı: 6 mm
Taş Çapı: 38 mm
Boşta Devir: 22.000 rpm
Hortum Çap›: 9.5 mm
Hava Giriş Nipeli: 1/4"
Hava tüketimi: 225 lt/dk
Çalışma Bas›nc›: 90 psi (6.2 atü)
Ağırlık: 0.56 kg: 0.56 kg



OPT-121

Kalıpçı Taşlama Önden Egzostlu
Uzunluk : 72 mm
Pens Çapı: 6 mm
Taş Çapı: 32 mm
Boşta Devir: 22.000 rpm
Hortum Çap›: 9.5 mm
Hava Giriş Nipeli: 1/4"
Hava tüketimi: 165 lt/dk
Çalışma Bas›nc›: 90 psi (6.2 atü)
Ağırlık: 0.56 kg: 0.35 kg



OP62075

Kalıpçı Taşlama
Uzunluk : 325 mm
Pens Çapı: 6 mm
Taş Çapı: 40 mm
Güç: 0.368 kWA
Boşta Devir: 18.000 rpm
Hortum Çap›: 10 mm
Hava Giriş Nipeli: 1/4"
Hava tüketimi: 198 lt/dk
Çalışma Bas›nc›: 90 psi (6.2 atü)
Ağırlık: 0.56 kg: 1.60 kg



OPC62050

Kalıpçı Taşlama
Uzunluk : 230 mm
Pens Çapı: 6 mm
Taş Çapı: 30 mm
Güç: 0.368 kWA
Boşta Devir: 21.000 rpm
Hortum Çap›: 10 mm
Hava Giriş Nipeli: 1/4"
Hava tüketimi: 120 lt/dk
Çalışma Basıncı: 90 psi (6.2 atü)
Ağırlık: 0.56 kg: 0.8 kg



OPT-P 304

Tornavida
Uzunluk : 216 mm
Soket Karesi: 1/4"
Vida Çapı: 4 mm
Max.Tork: 1.3 Nm
Boşta Devir: 1,500 rpm
Hortum Çap›: 9.5 mm
Hava Giriş Nipeli: 1/4"
Hava tüketimi: 113 lt/dk
Çalışma Basıncı: 90 psi (6.2 atü)
Ağırlık: 0.66 kg



OPT-P 304B

Tornavida
Uzunluk : 230 mm
Soket Karesi: 1/4"
Vida Çapı: 5 mm
Max.Tork: 1.3.5 Nm
Boşta Devir: 1,500 rpm
Hortum Çap›: 9.5 mm
Hava Giriş Nipeli: 1/4"
Hava tüketimi: 130 lt/dk
Çalışma Basıncı: 90 psi (6.2 atü)
Ağırlık: 0.60 kg



OPT505

Kabzal› Taşlama
Uzunluk : 135 mm
Taş Çapı: 100 mm
Boşta Devir: 15.000 rpm
Hortum Çap›: 9.50 mm
Hava Giriş Nipeli: 1/4”
Hava Tüketimi: 150 lt/dk
Çalışma Basıncı 90 psi (6.2-8.0 atü)
Ağırlık: 1.10kg



OPC60225-C

Avuç Taşlama / Kesici
Uzunluk : 400 mm
Taş Çapı: 115 mm
Ses Şiddeti: 84 dB(A)
Boşta Devir: 17.000 rpm
Güç: 0.52 kWA
Hortum Çapı: 11 mm
Hava Giriş Nipeli: 1/4”
Hava tüketimi: 170 lt/dk
Çalışma Basıncı: 90-115 psi (6.2-8.0 atü)
Ağırlık: 1.82 kg



OPC60215

Avuç Taşlama
Uzunluk : 264 mm
Taş Çapı: 125 mm
Ses Şiddeti: 83 dB(A)
Boşta Devir: 11.000 rpm
Güç: 0.60 kWA
Hortum Çap›: 13 mm
Hava Giriş Nipeli: 3/8”
Hava Tüketimi: 320 lt/dk
Çalışma Basıncı: 90-115 psi (6.2-8.0 atü)
Ağırlık: 1.90 kg



OPT700A

Döner Zımpara / Orbital
Vibrasyon: <2.5 mm
Orbital Çapı: 125-150 mm
Ses Şiddeti: 83 dB(A)
Boşta Devir: 0-7.000 rpm
Güç: 0.60 kWA
Hortum Çap›: 11.00 mm
Hava Giriş Nipeli: 1/4”
Hava Tüketimi: 141 lt/dk
Çalışma Basıncı: 90-115 psi (6.2-8.0 atü)
Ağırlık: 1.60 kg



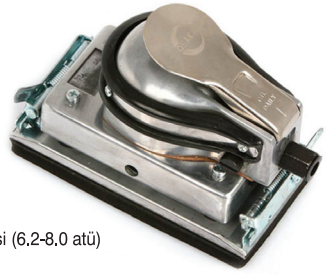
OPT-P701

Bant Zımpara
Uzunluk : 280 mm
Taban Çapı: 10x330 mm
Boşta Devir: 19.000 rpm
Hortum Çap›: 10.00 mm
Hava Giriş Nipeli: 1/4”
Hava Tüketimi: 226 lt/dk
Çalışma Basıncı: 90-115 psi (6.2-8.0 atü)
Ağırlık: 0.80 kg



OPT706

Titreşim Zımpara
Uzunluk : 170 mm
Taban Çapı: 93x165 mm
Boşta Devir: 0-8.000 rpm
Hortum Çap›: 9.50 mm
Hava Giriş Nipeli: 1/4”
Hava Tüketimi: 90 lt/dk
Çalışma Basıncı: 90-115 psi (6.2-8.0 atü)
Ağırlık: 2.30 kg



OPT15

Balanser

OPT15
0.6-1.5 gk - 1.50 mt .

OPT30
1.5-3.0 gk - 1.50 mt



OPC51112-K

Balanser

OSA-P3-3mm
OSA-P6-6mm
0.6-1.5 gk - 1.50 mt .

OPT30
1.5-3.0 gk - 1.50 mt



Otomatik Hava Rekorları

W5526/EG Quik Kaplinler (Erkek Gövde)



Sipariş Kodu	Ölçü
W5526/EG/12	026 Erkek gövde 1/2”
W5526/EG/38	026 Erkek gövde 3/8”
W5526/EG/14	026 Erkek gövde 1/4”

W5526/DG Quik Kaplinler (Dişi Gövde)



Sipariş Kodu	Ölçü
W5526/DG/12	026 Dişi gövde 1/2”
W5526/DG/38	026 Dişi gövde 3/8”
W5526/DG/14	026 Dişi gövde 1/4”

W5526/HG Quik Kaplinler (Hortum Gövde)



Sipariş Kodu	Ölçü
W5526/HG/6	026 Hortum gövde 6mm
W5526/HG/8	026 Hortum gövde 8mm
W5526/HG/10	026 Hortum gövde 10mm
W5526/HG/12	026 Hortum gövde 12mm

W5526/2G W5526/3G Quik Kaplinler (İkili - Üçlü Gövde)



W5526/2G



W5526/3G

Sipariş Kodu	Ölçü
W5526/2G/12	026 İkili gövde 1/2”
W5526/2G/38	026 İkili gövde 3/8”
W5526/3G/38	026 Üçlü gövde 3/8”
W5526/3G/12	026 Üçlü gövde 1/2”

W5526/EU Quik Kaplin Ucu (Erkek)



Sipariş Kodu	Ölçü
W5526/EU/12	026 Erkek uç 1/2”
W5526/EU/38	026 Erkek uç 3/8”
W5526/EU/14	026 Erkek uç 1/4”

W5526/DU Quik Kaplin Ucu (Dişi)



Sipariş Kodu	Ölçü
W5526/DU/12	026 Dişi uç 1/2”
W5526/DU/38	026 Dişi uç 3/8”
W5526/DU/14	026 Dişi uç 1/4”

W5526/HU Quik Kaplinler (Hortum Girdi)



Sipariş Kodu	Ölçü
W5526/HU/6	026 Hortum uç 6mm
W5526/HU/8	026 Hortum uç 8mm
W5526/HU/10	026 Hortum uç 10mm
W5526/HU/12	026 Hortum uç 12mm

SPT300 Şartlandırıcı Ünite





Sipariş Kodu	Ürün
SPT300/12C	1/2” Çiftli Şartlandırıcı
SPT300/12T	1/2” Tekli Su Tutucu
SPT300/14C	1/4” Çiftli Şartlandırıcı
SPT300/14T	1/4” Tekli Su Tutucu

KALIP PARLATMA ve SERVİS HİZMETİ

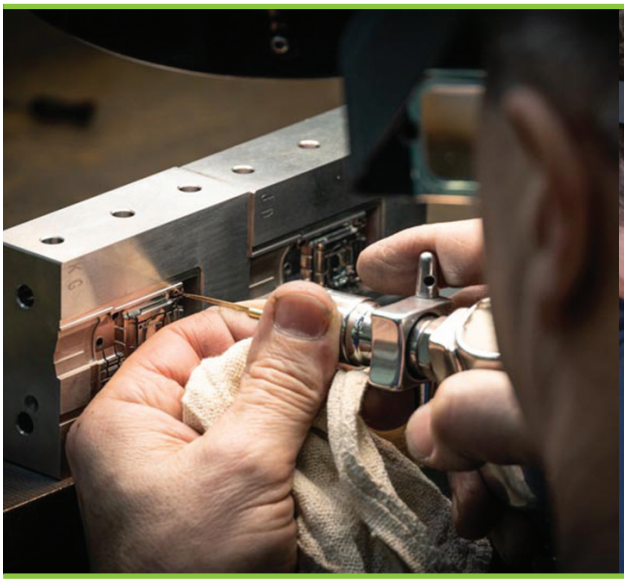
Sektördeki plastik enjeksiyon kalıplarının, parçaların veya birçok küçük karmaşık parçaların yüzey finiş teknolojisinin uygulamasını ve yerinde servis hizmetini sağlamaktadır.

Büyük kalıp parlatma projelerini, parçalarını hızlı teslimatla ele almanızı ve üstün kaliteyi rekabetci bir maliyetle ulaşmanızı sağlar.



KALIP PARLATMA HİZMETLERİ

- 3D katı modellerin ve planlanan yüzeylerin tarafımıza gönderilerek proje fiyatı çalışılması.
- Kalıp Kumlama
- Krom Kaplama
- Kalıp Asit Desen ve Kumlama Hizmeti
- Yerinde Servis Hizmeti





Ölçü Aletleri



KUMPASLAR

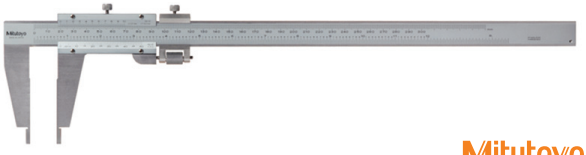
Üstten Sıkıştırmalı Vidalı Kumpaslar



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Burun Uzunluğu	Hassasiyet
530-101	0-150mm	40 mm	0.05 mm
530-104	0-150mm/0-6”	40 mm	0.05 mm
530-114	0-200mm/0-8”	50 mm	0.05 mm
530-115	0-300mm/0-12”	64 mm	0.05 mm
530-312	0-150mm/0-6”	40 mm	0.02 mm
530-118	0-200mm/0-8”	50 mm	0.02 mm
530-119	0-300mm/0-12”	64 mm	0.02 mm

Atölye Kumpası Tek Çene



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	İç Ölçüm	Hassasiyet
160-127	0-300mm	10 mm	0.02 mm
160-128	0-450mm	20 mm	0.02 mm
160-101	0-600mm	20 mm	0.02 mm

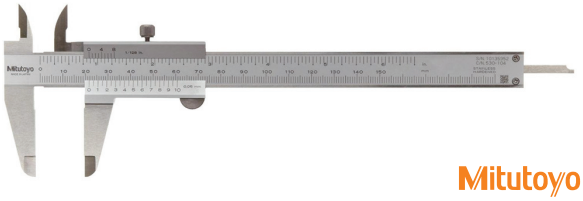
Atölye Kumpası Çift Çene



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	İç Ölçüm	Hassasiyet
533-401	0-200 mm	8 mm	0.05 mm
533-403	0-300 mm	10 mm	0.05 mm
533-404	0-500 mm	20 mm	0.05 mm
533-405	0-750 mm	20 mm	0.05 mm
533-406	0-1000 mm	20 mm	0.05 mm

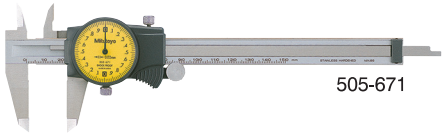
Ölçüm Yüzeyleri Sert Metal (Karbür) Özel Kumpaslar



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Burun Uzunluğu	Hassasiyet
530-320	0-150mm/0-6”	40 mm	0.05 mm
530-321	0-200mm/0-8”	50 mm	0.05 mm
530-322	0-300mm/0-12”	64 mm	0.05 mm

Saatli Kumpaslar



505-671



505-685

Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Burun Uzunluğu	Hassasiyet
505-685 ★	0-150mm	40 mm	0.01 mm
505-686 ★	0-200mm	50 mm	0.01 mm
505-671	0-150mm	40 mm	0.02 mm
505-672	0-200mm	50 mm	0.02 mm
505-673★★	0-300mm	64 mm	0.02 mm

Atölye Kumpası Uzun Çene ve Hassas Ayarlamalı



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Burun Uzunluğu	Hassasiyet
534-101	0-300 mm	90 mm	0.05 mm
534-102	0-500 mm	200 mm	0.05 mm
534-105	0-300mm	90 mm	0.02 mm
534-106	0-500 mm	200 mm	0.02 mm
534-107	0-750 mm	200 mm	0.02 mm
534-108	0-1000 mm	200 mm	0.02 mm

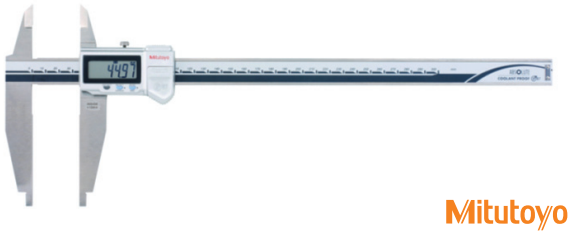
Standart Dijital Kumpaslar



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Not
500-181-20	0-150 mm	Derinlik ölçüm çubuğu
500-182-20	0-200 mm	Derinlik ölçüm çubuğu
500-184-20	0-150mm	Ø 1.9 mm silindirik derinlik ölçüm çubuğu

Dijital Çift Çene Atölye Kumpası



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	İç Ölçüm	Hassasiyet
551-331-10	0-300 mm	10 mm	0.01 mm
551-204-10	0-500 mm	20 mm	0.01 mm

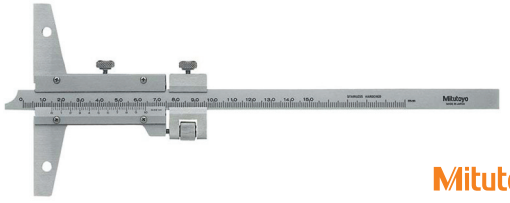
Dijital Atölye Tip Kumpaslar



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Hata Oranı
500-500-10	0-450 mm	0.01 mm	0.05 mm
500-501-10	0-600 mm	0.01 mm	0.05 mm
500-502-10	0-1000 mm	0.01 mm	0.07 mm

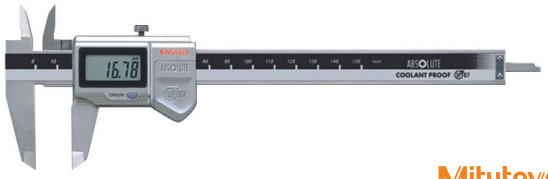
Derinlik Kumpasları



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Hata Oranı
527-101	0-150 mm	0.02 mm	0.03 mm
527-102	0-200 mm	0.02 mm	0.03 mm
527-103	0-300 mm	0.02 mm	0.04 mm

IP 67 Dijital Kumpas Su Geçirmez



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Not	Hassasiyet
500-706-11	0-150 mm	Derinlik ölçüm çubuğu	0.01 mm
500-707-11	0-200 mm	Derinlik ölçüm çubuğu	0.01 mm
500-708-11	0-300mm	Derinlik ölçüm çubuğu	0.01 mm
500-716-11	0-150 mm	Derinlik ölçüm çubuğu	0.01 mm
500-717-11	0-200 mm	Derinlik ölçüm çubuğu	0.01 mm
500-718-11	0-300mm	Derinlik ölçüm çubuğu	0.01 mm

Dijital Atölye Tip Kumpaslar



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Hata Oranı
571-201-20	0-150 mm	0.01 mm	0.03 mm
571-202-20	0-200 mm	0.01 mm	0.03 mm
571-203-20	0-300 mm	0.01 mm	0.04 mm
571-251-10	0-150 mm	0.01 mm	0.03 mm
571-252-10	0-200 mm	0.01 mm	0.03 mm
571-253-10	0-300 mm	0.01 mm	0.04 mm

Dijital Derinlik Kumpası



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Hata Oranı
571-201-20	0-150 mm	0.01 mm	0.03 mm
571-202-20	0-200 mm	0.01 mm	0.03 mm
571-203-20	0-300 mm	0.01 mm	0.04 mm
571-251-10	0-150 mm	0.01 mm	0.03 mm
571-252-10	0-200 mm	0.01 mm	0.03 mm
571-253-10	0-300 mm	0.01 mm	0.04 mm

MİKROMETRELER

Dış Çap Mikrometreleri



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
103-101-10	0-25 mm	0.01 mm	5-10 N
103-137	0-25 mm	0.01 mm	5-10 N
103-138	25-50 mm	0.01 mm	5-10 N
103-139-10	50-75 mm	0.01 mm	5-10 N
103-140-10	75-100 mm	0.01 mm	5-10 N
103-141-10	100-125 mm	0.01 mm	5-15 N
103-142-10	125-150 mm	0.01 mm	5-15 N
103-143-10	150-175 mm	0.01 mm	5-15 N
103-144-10	175-200 mm	0.01 mm	5-15 N
103-145-10	200-225 mm	0.01 mm	5-15 N
103-146-10	225-250 mm	0.01 mm	5-15 N
103-147-10	250-275 mm	0.01 mm	5-15 N
103-148-10	275-300 mm	0.01 mm	5-15 N
103-129	0-25 mm	0.001 mm	5-10 N
103-130	25-50 mm	0.001 mm	5-10 N

Dijital Dış Çap Mikrometreleri



.toyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
293-821	0-25 mm	0.001 mm	5-10 N
293-240	0-25 mm	0.001 mm	5-10 N
293-241	25-50 mm	0.001 mm	5-10 N
293-242	50-75 mm	0.001 mm	5-10 N
293-243	75-100 mm	0.001 mm	5-10 N

Dış Çap Miktometre Seti

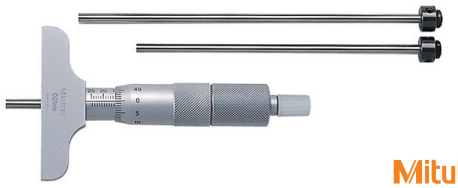
Sipariş Kodu **103-913-31**

6 Adet Dış çap Mikrometresi
5 Adet Ölçüm çubuğu
Tahta Kutuda
0 -150 mm arası ölçüm kapasitesi

Mitutoyo



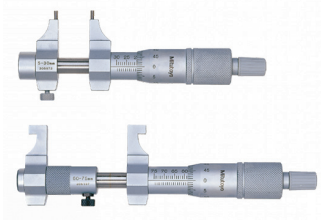
Mekanik Derinlik Mikrometreleri



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
129-111	0-100 mm	0.01 mm	5-10 N
129-116	0-150 mm	0.01 mm	5-10 N

Mekanik Dış Çap Mikrometreleri



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
145-185	5-30 mm	0.01 mm	1-6 N
145-186	25-50 mm	0.01 mm	1-6 N
145-187	50-75 mm	0.01 mm	1-6 N
145-188	75-100 mm	0.01 mm	1-6 N

Numaratörlü Dış Çap Mikrometreleri



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
193-101	0-25 mm	0.01 mm	5-15 N
193-102	25-50 mm	0.01 mm	5-15 N
193-103	50-75 mm	0.01 mm	5-15 N

KOMPARATÖRLER

Salgı Komparatörleri

Mitutoyo



Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
513-401 E	0.14 mm	0.001 mm	0.3 N
513-465 E	0.20 mm	0.002 mm	0.3 N
513-405 E	0.20 mm	0.002 mm	0.3 N
513-425 E	0.60 mm	0.002 mm	0.4 N
513-424 E	0.50 mm	0.01 mm	0.3 N
513-414 E	0.50 mm	0.01 mm	0.2 N
513-464 E	0.80 mm	0.01 mm	0.4 N
513-404 E	0.80 mm	0.01 mm	0.3 N
513-415 E	1.00 mm	0.01 mm	0.2 N
513-426 E	1.50 mm	0.01 mm	0.4 N

Salgı Komparatör Seti

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
513-404 T	0-8 mm	0.01 mm	2.0 N

Silindir Komparatör Seti

Mitutoyo



Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Derinliği
511-721	18-35 mm	0.001 mm	100 mm
511-722	35-60 mm	0.001 mm	150 mm
511-723	50-150 mm	0.001 mm	150 mm
511-211	6-10 mm	0.01 mm	47 mm
511-204	10-18 mm	0.01 mm	100 mm
511-711	18-35 mm	0.01 mm	100 mm
511-712	35-60 mm	0.01 mm	150 mm
511-713	50-150 mm	0.01 mm	150 mm
511-715	160-250 mm	0.01 mm	250 mm
511-716	250-400 mm	0.01 mm	250 mm

0.001 mm Hassasiyetli Komparatör Saatleri



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
2046 S *	0-10 mm	0.01 mm	1.4 N
2046 SB**	0-10 mm	0.01 mm	1.4 N
2046 S-15*	0-10 mm	0.01 mm	0.8 N
2047 S*	0-10 mm	0.01 mm	1.4 N

0.001 mm Hassasiyetli Komparatör Saatleri



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
2109 S-10*	0-1 mm	0.001 mm	1.5 N
2110 S-10*	0-1 mm	0.001 mm	1.5 N
2109 SB-10**	0-1 mm	0.001 mm	1.5 N
2110 SB-10**	0-1 mm	0.001 mm	1.5 N

Dijital Göstergeli Komparatör Saatleri



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ölçüm Kuvveti
543-681 B	0-12.7 mm	0.01 mm	2.0 N
543-690 B	0-12.7 mm	0.001 mm	2.0 N

Silindir Komparatör Seti



Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hassasiyet	Ağırlık
511-921	18-150 mm	0.01 mm	954 gr
511-922	18-150 mm	0.001 mm	954 gr

YÜKSEKLİK MİHENGİRLERİ



192-130



192-613-14-15



570-302

Elektronik Prob



192-007

Mitutoyo

Sipariş Kodu	Ölçüm Aralığı	Hata Sınırı	Hassasiyet	Ağırlık
514102 Mekanik	0 - 300	0.03 mm	0.02 mm	3.1 kg.
192130 Saatli		0.03 mm		4.2 kg.
19261310 Dijitalli		0.02 mm		4.7 kg.
570302 Dijital HDS		0.04 mm		4.6 kg.
19261410 Dijitalli	0 - 600	0.05 mm		9.5 kg.
19261510 Dijitalli	0 - 900	0.07 mm		19.8 kg.

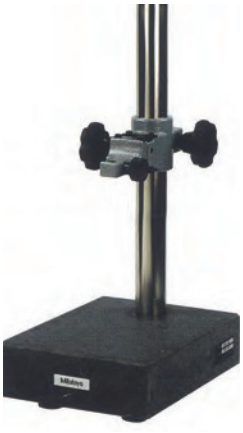
Komparatörler Saatleri Standı



Mitutoyo

Tablalı Stand
Model 7001 M

Sütun : Ø30 mm
Tabla Çapı : 58 mm
Tabla Ölçü : 168x110
Uzunluk : 65 mm
Max. Yükseklik : 100 mm



Mitutoyo

Granit Tablalı
Model 215 - 151 M

Ölçü : 150 x 200
Yükseklik : 260 mm
Ağırlık : 8 kg.

Opsiyonel Aksesuar



101461



101463

EKONOMİK ÖLÇÜ ALETLERİ



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C100-1502M	0-100	0.02 mm	±0.03 mm
C100-2002M	0-200	0.02 mm	±0.03 mm
C100-3002M	0-300	0.02 mm	±0.04 mm

Mekanik Kumpas Tek Çene Monoblok



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C100-5002M	0-500	0.02 mm	±0.05 mm
C100-6002M	0-600	0.02 mm	±0.05 mm
C100-1002M	0-1000	0.02 mm	±0.07 mm

Mandallı Somet



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
Z.100-200	0-200	0.05 mm	±0.05 mm
Z.100-250	0-250	0.05 mm	±0.05 mm

Dijital Derinlik Mikrometresi



Sipariş Kodu	Kapasite	Miller
S202-E0100	0-100 mm	4
S202-E0150	0-150 mm	6
S202-E0300	0-300 mm	12

Vernierli Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C100-0105	0-100	0.05 mm	±0.05 mm
C100-1502	0-150	0.02 mm	±0.03 mm
C100-1505	0-150	0.05 mm	±0.05 mm
C100-2002	0-200	0.02 mm	±0.03 mm
C100-3002	0-300	0.02 mm	±0.04 mm

Mekanik Kumpas Tek Çene



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C100-4002	0-400	0.02 mm	±0.05 mm
C100-5002	0-500	0.02 mm	±0.05 mm
C100-6002	0-600	0.02 mm	±0.05 mm
C100-8002	0-800	0.02 mm	±0.05 mm
C100-8002	0-800	0.02 mm	±0.05 mm
C100-1002	0-1000	0.02 mm	±0.07 mm

Uzun Tek Çene Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C100-3005X90	0-300 mm	0.05 mm	±0.08 mm
C100-5005X150	0-500 mm	0.05 mm	±0.08 mm
C100-6005X150	0-600 mm	0.05 mm	±0.10 mm
C100-1005X200	0-1000 mm	0.05 mm	±0.10 mm
C100-15005X200	0-1500 mm	0.05 mm	±0.13 mm
C100-20005X200	0-2000 mm	0.05 mm	±0.16 mm
C100-30005X200	0-3000 mm	0.05 mm	±0.26 mm
C100-35005X200	0-3500 mm	0.05 mm	±0.34 mm
C100-40005X200	0-4000 mm	0.05 mm	±0.34 mm

Ekstra Uzun Çift Çene Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C100-3002x150	0-300 mm	0.02 mm	±0.04 mm
C100-5002X150	0-500 mm	0.02 mm	±0.05 mm
C100-5002X150	0-500 mm	0.02 mm	±0.05 mm
C100-6002x125	0-600 mm	0.02 mm	±0.05 mm
C100-6002x300	0-600 mm	0.02 mm	±0.05 mm
C100-10002x150	0-1000 mm	0.02 mm	±0.07 mm
C100-10002X500	0-1000 mm	0.02 mm	±0.07 mm

Metalik Dijital Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C102-1501MTL	0-150	0.01	41
C102-2001MTL	0-200	0.01	50
C102-3001MTL	0-300	0.01	60

Büyük Ekran Dijital Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C102-1001	0-100	0.01	30
C102-1501	0-150	0.01	41
C102-2001	0-200	0.01	50
C102-3001	0-300	0.01	60

Saatli Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C101-1502S	0-150	0.02	40
C101-2002S	0-200	0.02	50
C101-3002S	0-300	0.02	57

Derinlik Kumpası



Sipariş Kodu	Ölçü	Hassasiyet	Toplam Boy
C103-1502	0-150	0.02	227
C103-2002	0-200	0.02	327
C103-3002	0-300	0.02	377
C103-5002	0-500	0.02	577

3 Ağızlı Kumpas



Sipariş Kodu	Ölçü	Hassasiyet
C103-3FL-0440	4-40 mm	0.05 mm
C103-3FL-2075	20-75 mm	0.05 mm

TİN Kaplı Dijital Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C101-1501TIN	0-150	0.01	41
C101-2001TIN	0-200	0.01	50
C101-3001TIN	0-300	0.01	60

Dijital Kumpas Büyük Ekran



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C102-500	0-500	0.01	100
C102-600	0-600	0.01	100
C102-6001.1	0-600	0.01	150
C102-8001	0-800	0.01	150
C102-10001	0-1000	0.01	200
C102-15001	0-1500	0.01	200
C102-20001	0-2000	0.01	200

Ekonomik Tip Dijital Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C102-1501E	0-150	0.01	41

Ekonomik Tip Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C100-1505E	0-150	0.05	41

Su Geçirmez Dijital Kumpas IP67-UPM



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C101-UPM/150	0-150	0.01	41
C101-UPM/200	0-200	0.01	50
C101-UPM/300	0-300	0.01	60

Çelik Ağızlı Uzun Çeneli Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C102-3001X90	0-300	0.01	90
C102-5001X125	0-500	0.01	125
C102-5001X150	0-500	0.01	150
C102-6001X125	0-600	0.01	125
C102-6001X150	0-600	0.01	150
C102-10001X150	0-1000	0.01	150

Dijital Kumpas Metalik



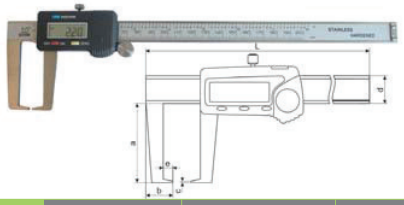
Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C102-1501MTL	0-150	0.01	41
C102-2001MTL	0-200	0.01	50
C102-3001MTL	0-300	0.01	60

Dijital Derinlik Kumpası



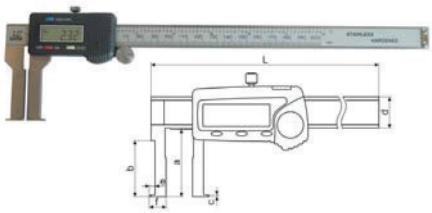
Sipariş Kodu	Ölçü	Hassasiyet	Toplam Boy
C108-150	0-150	0.01	245
C108-200	0-200	0.01	295
C108-300	0-300	0.01	395

Dış Kanal Dijital Kumpas Metalik



Sipariş Kodu	Ölçü	Hassasiyet	Toplam Boy
C109-0015	0-150	0.01	237
C109-0020	0-200	0.01	292
C109-0030	0-300	0.01	398

İç Kanallı Dijital Kumpas



Sipariş Kodu	Ölçü	Hassasiyet	Toplam Boy
C109-2017	20-170	0.01	237
C109-2522	25-225	0.01	292
C109-3033	30-330	0.01	398

Kaynakçı Kumpası



Sipariş Kodu	Ölçü	Hassasiyet	Derece
C107-020	0-20 mm	0.1 mm	60-70-80-90°

Mikrometre Standı



Sipariş Kodu	Kapasite
S208-000	0-150 mm

Mikrometre Standı



Sipariş Kodu	Ölçü	Kullanım Alanı
C208-000	140x103	0-10 mm Mikrometreler için

Mikrometre Seti



Sipariş Kodu	Kapasite	Hassasiyet	Parça Adedi
S209-0150	0-150 mm	0.01 mm	6

Mikrometre Seti



Sipariş Kodu	Ölçü	Ayrıntı
C209-0150	0-150mm	6 Adet Mikrometre

Ekonomik Tip Komparatör Saati



Sipariş Kodu	Ölçü	Hassasiyet	Tip
C400-1001E	0-10	0.01	Kulaksız
C399-1001E	0-10	0.01	Kulaklı

Pasimetre



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C206-0025	0-25	0.001	14

Dış Çap Mikrometreleri



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C200-0025	0-25	0.01	29
C200-2550	25-50	0,01	43
C200-5075	50-75	0.01	55
C200-75100	75-100	0.01	65
C200-100125	100-125	0.01	65
C200-125150	125-150	0.01	80
C200-150175	150-175	0.01	91
C200-175200	175-200	0.01	103
C200-200225	200-225	0.01	125
C200-225250	225-250	0.01	135
C200-250275	250-275	0.01	145
C200-275300	275-300	0.01	160
C200-300400	300-400	0.01	220
C200-400500	400-500	0.01	275
C200-500600	500-600	0.01	230
C200-600700	600-700	0.01	390
C200-700800	700-800	0.01	440
C200-800900	800-900	0.01	492
C200-9001000	900-1000	0.01	545

Pasimetre



Sipariş Kodu	Kapasite	Hassasiyet	Mikrometre Toleras	Saat Tolerans
S206-0025	0-25 mm	0.01 mm	±3 µm	±0.7-1.0 µm

Dijital Mikrometreler



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C204-0025	0-25	0.001	23
C204-2550	25-50	0.001	30
C204-5075	50-75	0.001	43
C204-75100	75-100	0.001	50

Numaratörlü Mikrometreler



Sipariş Kodu	Ölçü	Hassasiyet	Çene Derinliği
C203-0025	0-25	0.01	28
C203-2550	25-50	0.01	30
C203-5075	50-75	0.01	42
C203-75100	75-100	0.01	55

Şapkalı Dişli Mikrometreler



Sipariş Kodu	Ölçü	Hassasiyet	Şapka Çapı
C207-CC02	0-25	0.01	20
C207-CC03	25-50	0.01	20
C207-CC04	50-75	0.01	20
C207-CC05	75-100	0.01	20
C207-CC06	100-125	0.01	30

Derinlik Mikrometreleri



Sipariş Kodu	Ölçü	Hassasiyet	Uç Sayısı
C202-0100	0-100	0.01	4
C202-0150	0-150	0.01	6
C202-0300	0-300	0.01	12

3 Ayaklı İç Çap Mikrometre Setleri



Sipariş Kodu	Ölçü	Hassasiyet	Serti İçeriği
C198-0612	6-12	0.004	6-8,8-10,10-12
C198-120	12-20	0.004	12-16,16-20
C198-2050	20-50	0.004	20-25,25-30,30-40,40-50
C198-50100	50-100	0.005	50-63,62-75,75-88,87-100

İç Çap Mikrometreleri



Sipariş Kodu	Ölçü	Hassasiyet	Şapka Çapı
C201-0530	5-30	0.01	5-10
C201-2550	25-50	0.01	5-10
C201-5075	50-75	0.01	5-10
C201-75100	75-100	0.01	5-10

İç Çap Borum Mikrometreleri



Sipariş Kodu	Ölçü	Hassasiyet
C197-50300	50-300	0.01
C197-50600	50-600	0.01
C197-501000	50-1000	0.01
C197-501500	50-1500	0.01
C197-102100	10-2100	0.01

Paralel Set



Sipariş Kodu	Ölçü
C328-7	150mm 7Çift 6x10-6x12-8x14-12x18- 12x24-16x36-16x38
C328-14X5	150x5mm 14Çift 14-16-18-20-22-24-26 -28-30-32-35-40-45-50
C328-14X10	150x10mm 14Çift 14-16-18-20-22-24-26 -28-30-32-35-40-45-50

Johnson Mastar Seti (103 Parça)



Sipariş Kodu	Ölçü
C327-103-2	1.005-100 mm Gr2

Pim Mastar Seti



Sipariş Kodu	Ölçü
C327-103-2	1.005-100 mm Gr2

Açı Mastar Seti (10 Parça)



Sipariş Kodu	Ölçü
C323-103	1° /2° /3° /4° /5° /10° / 15° /20° / 25° /30°/

Dijital Yükseklik Mihengiri



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans	Tipi
C105-300	0-300	0.01	±0.02	Tek Kolon
C105-500	0-500	0.01	±0.04	Tek Kolon
C105-600	0-600	0.01	±0.04	Çift Kolon
C105-1000	0-1000	0.01	±0.06	Çift Kolon

Mercekli Yükseklik Mihengiri



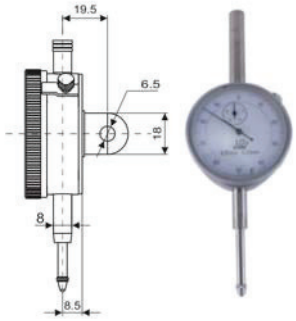
Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C104-3002	0-300	0.02	±0.04
C104-5002	0-500	0.02	±0.05
C104-6002	0-600	0.02	±0.05
C104-10002	0-1000	0.02	±0.07

Saatli Yükseklik Mihengiri



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C106-300	0-300	0.01	±0.03
C106-500	0-500	0.01	±0.05

Kulaklı Komparatör Saati



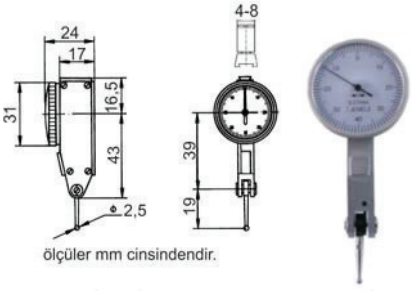
Sipariş Kodu	Ölçü	Hassasiyet
C400-1001	0-10 mm	0.01
C400-1001KC	0-10 mm	0.01
C400-2501	0-25 mm	0.01
C400-3001	0-30 mm	0.01
C400-5001	0-30 mm	0.01

Kulaksız Komparatör Saati



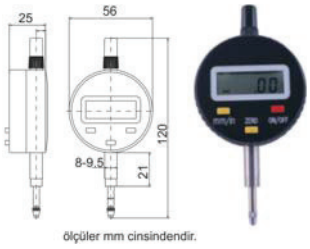
Sipariş Kodu	Ölçü	Hassasiyet
C399 -1001	0-10 mm	0.01
C399 -1001KC	0-10 mm	0.01
C399 -5001	0-25 mm	0.01
C399 -10001	0-30 mm	0.01

Salgı Komparatör Saati



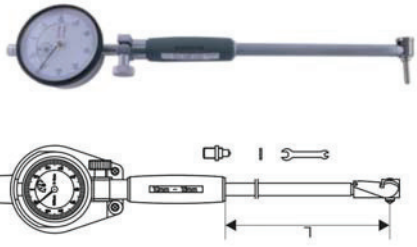
Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C500-0801	0-0.8	0.01	7-10μm
C500-0202	0-0.2	0.002	3μm

Dijital Komparatör Saati



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C401-1001	0-10	0.01	7μm

Silindir Komparatörü



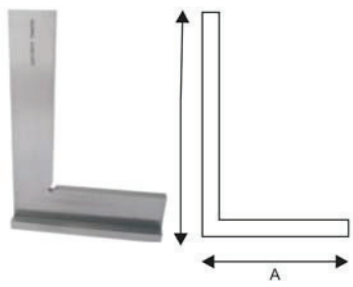
Sipariş Kodu	Ölçü	Hassasiyet	Tolerans	L
C300-0610	06-10	0.01	12μm	57
C300-1018	10-18	0.01	12μm	106
C300-1835	18-35	0.01	15μm	150
C300-3550	35-50	0.01	18μm	150
C300-5016	50-16	0.01	18μm	150
C300-1625	16-25	0.01	18μm	415
C300-2545	25-45	0.01	18μm	415

Dereceli Çelik Mastar



Sipariş Kodu	Boy	Genişlik	Kalınlık
C111-0500	500 mm	25 mm	5 mm
C111-0750	750 mm	30 mm	6 mm
C111-1000	1000 mm	30 mm	6 mm
C111-1500	1500 mm	30 mm	6 mm
C111-2000	2000 mm	40 mm	8 mm
C111-2500	2500 mm	40 mm	8 mm
C111-3000	3000 mm	40 mm	8 mm

Şapkalı Gönye DIN 875/0



Sipariş Kodu	A	L
C-127-050040	40 mm	50 mm
C-127-075050	50 mm	75 mm
C-127-100070	70 mm	100 mm
C-127-150100	100 mm	150 mm
C-127-200130	130 mm	200 mm
C-127-250165	165 mm	250 mm
C-127-300175	175 mm	300 mm
C-127-400230	230 mm	400 mm
C-127-500280	280 mm	500 mm
C-127-600400	400 mm	600 mm
C-127-750500	500 mm	750 mm
C-127-1000660	600 mm	1000 mm

Doğrusal Dijital Cetvel

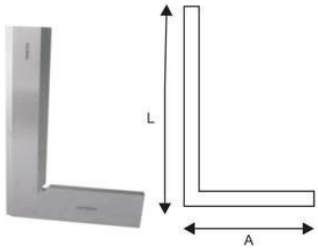


Hassas Kare Su Terazisi DIN 877



Sipariş Kodu	Boy	Genişlik	Yükseklik	Ağırlık	Hassasiyet
	100 mm	28 mm	100 mm	0.9 kg	0.015/100
	150 mm	28 mm	150 mm	2.2 kg	0.015/100
	200 mm	28 mm	200 mm	3.5 kg	0.015/100
	300 mm	28 mm	300 mm	5.0 kg	0.015/100

Kıl Gönye DIN 875/0



Sipariş Kodu	A	L
C125-050040	40 mm	50 mm
C125-075050	50 mm	75 mm
C125-100070	70 mm	100 mm
C125-150100	100 mm	150 mm
C125-200130	130 mm	200 mm
C125-300200	200 mm	300 mm

Hassas Su Terazisi Ekonomik



Sipariş Kodu	Boy	Genişlik	Yükseklik	Hassasiyet
	100 mm	30 mm	35 mm	0.02
	150 mm	42 mm	44 mm	0.02
	200 mm	42 mm	44 mm	0.02
	250 mm	42 mm	44 mm	0.02
	300 mm	42 mm	44 mm	0.02

Hassas Su Terazisi DIN 877



Sipariş Kodu	Boy	Genişlik	Yükseklik	Ağırlık	Hassasiyet
	150 mm	42 mm	40 mm	1.5 kg	0.015/100
	200 mm	42 mm	40 mm	1.9 kg	0.015/100
	250 mm	42 mm	40 mm	2.4 kg	0.015/100
	300 mm	42 mm	40 mm	2.8 kg	0.015/100

Ekonomik Hassas Kare Su Terazisi

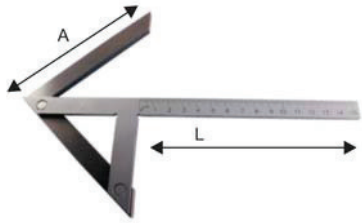


C620-150D
ölçüler:150*31*60 mm
hassasiyet:0-10 derece



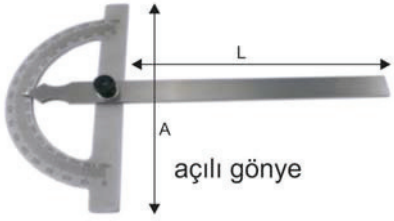
Sipariş Kodu	Boy	Genişlik	Yükseklik	Hassasiyet
C620100	**100 mm**	30 mm	100 mm	0.02
C620150	**150 mm**	37 mm	150 mm	0.02
C620200	**200 mm**	37 mm	200 mm	0.02
C620250	**250 mm**	37 mm	250 mm	0.02
C620300	**300 mm**	37 mm	300 mm	0.02

Merkezleme Gönyesi



Sipariş Kodu	A	L
C119-070	70 mm	100 mm
C119-130	130 mm	150 mm
C119-150	150 mm	200 mm
C119-160	160 mm	250 mm
C119-180	180 mm	300 mm

Açılı Gönye



Sipariş Kodu	A	L
C120-080	180 mm	120 mm
C120-120	120 mm	150 mm
C120-150	150 mm	200 mm
C120-200	200 mm	300 mm

Paslanmaz Çelik Çetvel



Sipariş Kodu	Boy	Genişlik	Kalınlık
C110-01515	150 mm	15mm	0.50mm
C110-02020	200 mm	20mm	0.75mm
C110-03025	300mm	25mm	0.70mm
C110-05030	500mm	30mm	0.85mm
C110-10020	1000mm	20mm	0.70mm
C110-10030	1000mm	30mm	0.95mm
C110-15038	1500mm	38mm	1.40mm
C110-20038	2000mm	38mm	1.70mm

Dijital Gönye



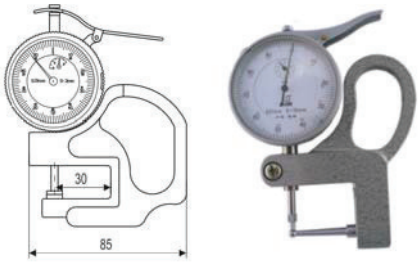
Sipariş Kodu	Ölçü
C610-360D	0-360˚ X5 Dijital Gönye

Dereceli Gönye



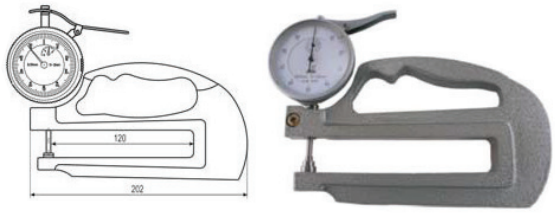
Sipariş Kodu	Ölçü
C610-360M	Dereceli Mercekli Gönye
C610-360S	306x5 Saatli Gönye

Boru Kompatörü



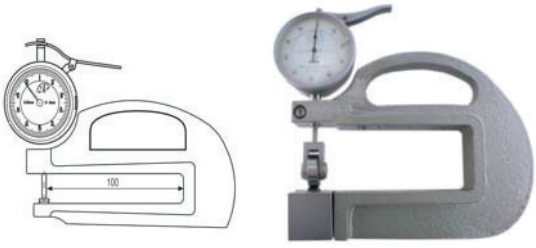
Sipariş Kodu	Ölçü	Hassasiyet	Ölçme Derinliği
C207-LD12	0-10	0.01	30 mm

Kalınlık Kompatörü



Sipariş Kodu	Ölçü	Hassasiyet	Ölçme Derinliği
C207-LD19	0-10	0.01	120 mm

Rulmanlı Kompatörü



Sipariş Kodu	Ölçü	Hassasiyet	Ölçme Derinliği
C207-LD17	0-10	0.01	100 mm

Cep Tipi Kalınlık Kompatörü



Sipariş Kodu	Ölçü	Hassasiyet	Ölçme Derinliği
C207-010	0-10	0.1	15 mm
C207-020	0-20	0.1	15 mm

İç Çap Kompatörü



Sipariş Kodu	Ölçü	Hassasiyet
C099-1535	15-35 mm	0.01
C099-3555	35-55 mm	0.01
C099-5575	55-75 mm	0.01
C099-7595	75-95 mm	0.01
C099-95115	95-115 mm	0.01
C099-115135	115-135 mm	0.01

Dış Çap Kompatörü



Sipariş Kodu	Ölçü	Hassasiyet
C098-0020	0-20 mm	0.01
C098-2040	20-40 mm	0.01
C098-4060	40-60 mm	0.01
C098-6080	60-80 mm	0.01
C098-80100	80-100 mm	0.01

Dijital İç Çap Kompatörü



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C097-0525	5-25	0.01	±0.03
C097-2040	20-40	0.01	±0.03
C097-4060	40-60	0.01	±0.03

Dijital Dış Çap Kompatörü



Sipariş Kodu	Ölçü	Hassasiyet	Tolerans
C096-0020	5-25	0.01	±0.03
C096-2040	20-40	0.01	±0.03
C096-4060	40-60	0.01	±0.03

Kalıp Alma Şablonu



Sipariş Kodu	Ölçü
C322-044	130 mm

Torna Kalem Mastarı



Sipariş Kodu	Ölçü
C321-001	90x40 mm

Filler Çakısı



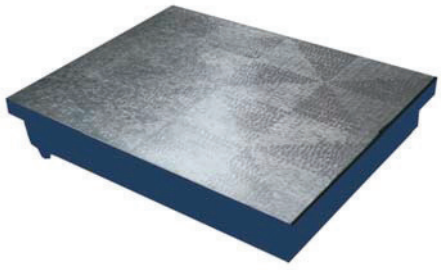
Sipariş Kodu	Parça Adedi
C320-20	0.05-1.0x100mm 20adet / TK
C320-20X300	0.05-1.0x300mm 20adet / TK
C320-20X500	0.05-1.0x500mm 20adet / TK
C319-26inç	0.0015”-0.025”x90mm 26adet / TK

Granit Pleyt DIN 875/00



Sipariş Kodu	Boy	En	Yükseklik	Ağırlık
C002-4025	400 mm	250 mm	80	30
C002-6340	630 mm	400 mm	100	80
C002-8050	800 mm	500 mm	130	150
C002-1063	000 mm	630 mm	150	280
C002-1280	200 mm	800 mm	180	360
C002-1610	600 mm	1000 mm	200	1080
C002-2020	2000 mm	1000 mm	200	1360

Döküm Pleyt GB 4986-885GR.1



Sipariş Kodu	Boy	En	Yükseklik	Ağırlık
C002-4030D	400 mm	300 mm	85	15
C002-6040D	600 mm	400 mm	95	35
C002-8050D	800 mm	500 mm	100	65
C002-1075D	1000 mm	750 mm	170	120

Dış Tarağı (Metrik / İnç)



Sipariş Kodu	Parça Adedi
C322-044	52 Parça

Manyetik Kompratör Ayakları



Sipariş Kodu	Uzunluk	Genişlik	Yükseklik	Tutma Kuvveti
C900-0040	62 mm	50 mm	55	80
C900-MT60A	62 mm	50 mm	55	75
C900-111	62 mm	50 mm	55	63

Z - Sıfırlama Aparatı



Sipariş Kodu	Ölçüm	Hassasiyet
C323-229	5 mm	0.01
C323-230	100 mm	0.01

Işıklı Z - Sıfırlama Aparatı



Sipariş Kodu	Ölçüm	Hassasiyet
C323-050	50 mm	0.01 mm

Proplar



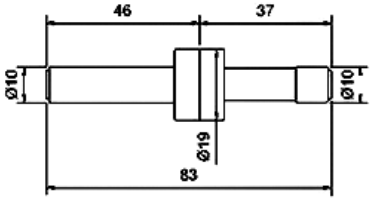


Sipariş Kodu	Ölçüm
M325-109	Mekanik Prop
M324-232	Tinkaplı Antimanyetik Prop
M324-233	20 x 160 Işıklı Sesli
M324-234	6 x 120 Işıklı Sesli - Küçük Çap

Mekanik Prop - Vertex

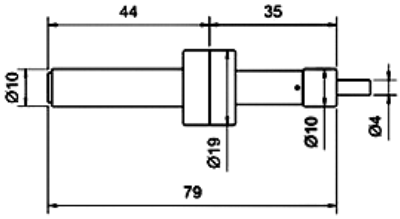


VPS-301





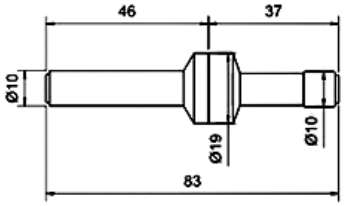
VPS-302



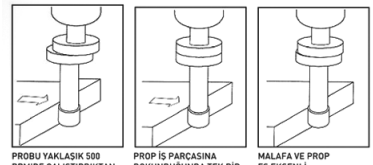
- Tekrarlama hassasiyeti 0,003 mm içerisindedir
- R.P.M 450-600 aras›ndad›r
- Net görüş için dizayn edilmiştir



Seramik Tip VPS-301C



Sipariş Kodu	Malzeme	Sertlik	Ağırlık (kg)
VPS-301	Alaşımlı Çelik	HRC 56°	0.06
VPS-302		HRC 56°	0.06
VPS-301S	Paslanmaz	HRC 60°	0.06
VPS-302S		HRC 60°	0.06
VPS-301C	Seramik	HRC 60°	0.06

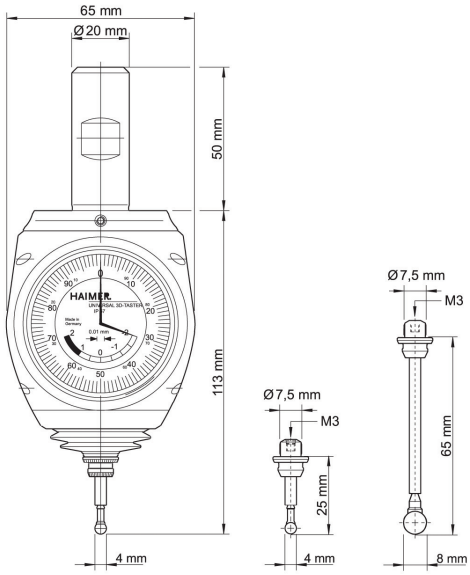


PROBU YAKLAŞIK 500 RPM'DE ÇALIŞTIRDIKTAN SONRA, İŞ PARÇASINI YAKLAŞTIRIN. PROP EŞ EKSENLİ OLANA KADAR İŞ PARÇASINI YAKLAŞTIRMAYA DEVAM EDİN.

PROP İŞ PARÇASINA DOKUNDUĞUNDA TEK BİR BÖLÜM İÇİNDE GÖRÜLÜR.

MALAFA VE PROP EŞ EKSENLİ OLDUĞUNDA FENER MİLİ ÖLÇÜM YÜZEYİN'DEN 5 mm MESAFEDEDİR.

HAIMER
ALMANYA





Universal 3D-Sensor, frezeleme ve EDM makineleri (yalıtılmış prop) için kullanılan çok duyarlı ve hassas bir ölçü aletidir. Firmaların olmazsa olmazıdır. 3D-Sensor bir alet tutucuya kenetli ve bir frezeleme miline eklidir.

Bir kere makinenin miline kenetlendiğinde taşma tamamen sıfıra ayarlanabilir. Bu sayede işlenecek parçanın köşelerinin üzerindeki mil ekseninin kesin konumu bulunabilir. Bu, sıfırların ayarlanmasının ve uzunlukların ölçülmesinin hızlı ve kolayca yapılmasını sağlar. 3D-Sensor ile X, Y ve Z olmak üzere tüm eksenlere ulaşılabilir.

Kadranlı mikrometre sıfırı gösterdiğinde, mil ekseni tam olarak işlenecek parçanın köşesinde durur. Sadece Haimer 3D-Sensor köşelerin ilk denemede bulunabilmesini sağlar. Prop çapının hesaplanmasına gerek yoktur, yalnızca sıfırlayın yeter! Matematiksel hesaplamalara dair tüm sorunlar ortadan kalktı, operatör hataları azaldı. 3D-Sensor hızlı ve kolaydır, üretken zamanı ve operatör duyarlılığını arttırır.

Kısa ve uzun proplar mevcuttur. Sensör proplar hiçbir alete gerek kalmadan değiştirilebilir. propun değişiminden sonra üniteyi tekrar ayarlamaya gerek yoktur. Kısaca, ibreyi sıfıra getirin ve o size köşeyi göstersin.

Aletin duyarlılığı sayesinde makinenin üzerindeki parçaları denetleyebilirsiniz. İbrişim mengenesiyle, deliğin merkezini, köşeleri bulun ve parçaları belirleyin – bunların tümü Haimer 3D-Sensor ile mümkün. Ünitenin tümüyle test edilmiş ön ayar kırıcı noktaları ile bağlantılı çok uzun bir aşırı çalışma mesafesi vardır, bu da sensörün ömrünü uzatır.

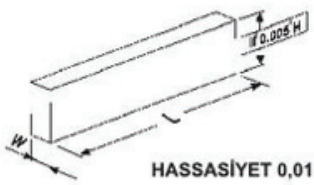
Tüm Universal 3D-Sensor'ler tek tek test edilmiştir ve maksimum ölçüm duyarlılığına ulaşmak için ayarlanmıştır.

KOD	HASSASİYET	KOMPLE BOY (SAPSIZ)	AÇIKLAMA
HEIM-8036000	0,01 mm	113 mm	3D TESTER MEKANİK
HEIM-8036440	0,01 mm	113 mm	SK40 SAPLI 3D TESTER MEKANİK
HEIM-8036540	0,01 mm	113 mm	BT40 SAPLI 3D TESTER MEKANİK
HEIM-8036200	-	-	Ø4 KISA UÇ
HEIM-8036300	-	-	Ø8 UZUN UÇ

SK50, BT50, HSK-A50, HSK-E 50, HSK-A 63, HSK-A80, HSK-A100 MODELLERİ İÇİN FİYAT ALINIZ.

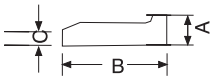
Paralel Set (9 Çift)

- Daha emin freze mengenesi işlemleri için
- Sertlik: HRC 48° - 53°
- Hassasiyet 0.01mm
- 4 tarafı Taşlanmış
- 1 set 18 parça içerir
- Plastik kutudadır
- Brüt ağırlık 11.5kg



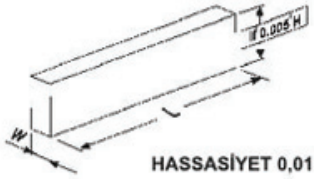
HASSASİYET 0,01 mm



Sipariş Kodu	Gövde Ölçüsü WxHxLxAdet	Kapama Ölçüsü AxBxCxLxAdet
15141	5x16x100x2	15x31x2.5x200x2 
	5x16x100x2	
	5x16x100x2	
	5x16x100x2	
	5x16x100x2	
	5x16x100x2	
	5x16x100x2	
	5x16x100x2	

Paralel Set (14 Çift)

- Sertlik: HRC 48° - 53°
- Sertleştirilmiş ve Taşlanmıştır
- Yüksek alaşımlı çelikten imal edilmiştir



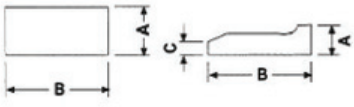
HASSASİYET 0,01 mm



Sipariş Kodu	Gövde Ölçüsü	WxHxLxAdet
15142	10x14x150x2	10x28x150x2
	10x16x150x2	10x30x150x2
	10x18x150x2	10x32x150x2
	10x20x150x2	10x35x150x2
	10x22x150x2	10x40x150x2
	10x24x150x2	10x45x150x2
	10x26x150x2	10x50x150x2

Paralel Set (9 Çift)

- Sertlik: HRC 48° - 53°
- Sertleştirilmiş veTaşlanmış yüksek alaşımlı çelikten imal edilmiştir

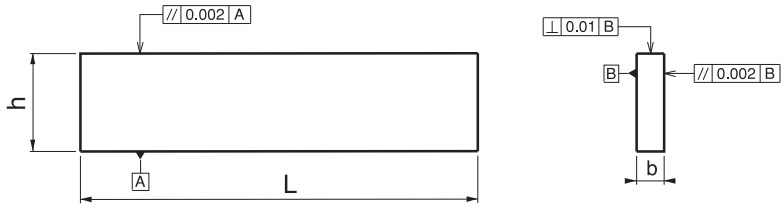


HASSASİYET 0,01 mm



Sipariş Kodu	Gövde Ölçüsü	Kapama Ölçüsü WxHxLxAdet
15143	5x16x150x2	31x15x200x2x2.5
	65x18x150x2	
	8x24x150x2	
	10x30x150x2	
	12x36x200x2	
	14x48x200x2	
	18x60x200x2	
	22x62x200x2	

Paralel Set

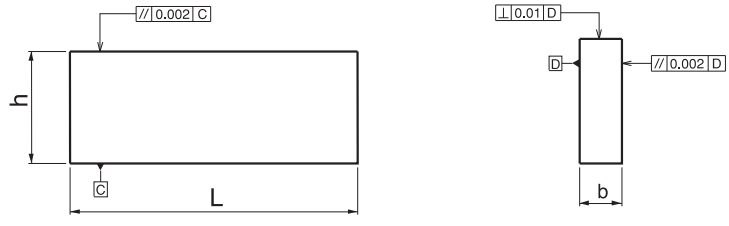




Sipariş Kodu	h x b x L	Tolerans h	Tolerans b	(kg)	Adet
2230-028	14x10x150	±0.01	±0.01	10.6	2
	16x10x150				2
	18x10x150				2
	20x10x150				2
	22x10x150				2
	24x10x150				2
	26x10x150				2
	28x10x150				2
	30x10x150				2
	32x10x150				2
	35x10x150				2
	40x10x150				2
	45x10x150				2
	50x10x150				2

- Ürün iş parçalarının paralel bağlanmasında ve hassas işlenmesinde altlık olarak kullanılır.
28 parça
- Malzeme 90 MnCr V8 DIN
- Sertlik 52 HRC
- Ahşap kutuda set

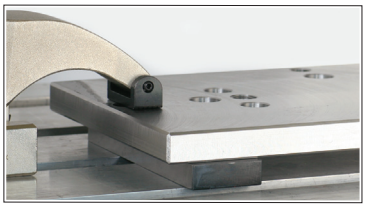
Paralel Set





Sipariş Kodu	h x b x L	Tolerans h	Tolerans b	(kg)	Adet
2250-016	20x 6 x100	±0.01	±0.01	10.8	2
	23x 8 x100				2
	28x10x100				2
	36x12x150				2
	42x14x150				2
	48x16x150				2
	58x18x150				2
	65x22x150				2

- Ürün iş parçalarının paralel bağlanmasında ve hassas işlenmesinde altlık olarak kullanılır.
16 parça
- Malzeme Ck45 DIN
- Sertlik 42 HRC
- Ahşap kutuda set



Manyetik Ayaklar



VMB-B
Manyetik Ayak / 80kg



VMB-01
Manyetik Ayak
Ayarlanabilir Tip/ 80kg



VMB-02
Manyetik Ayak
Ayarlanabilir Tip/ 80kg



VMB-03
Manyetik Ayak
Uzun Çubuk Tipi/ 130kg

Sipariş Kodu	Ayak Ölçüleri BxExY (mm)	Tutma Gücü	Sabit Kol ÇapxBoy	Hareketli Kol	Ağırlık (kg)
VMB-B	60 x 50 x 55	80 kg	Ø12 x 173	Ø10 x 162	1.6
VMB-01	60 x 50 x 55	80 kg	Ø12 x 176	Ø10 x 150	1.6
VMB-02	60 x 50 x 55	80 kg	Ø12 x 171	Ø10 x 153	1.6
VMB-70	73 x 50 x 55	100 kg	Ø25 x 198	Ø25 x 116	1.7
VMB-106	73 x 50 x 55	100 kg	Ø25 x 125	Ø25 x 125	1.9
VMB-106H	75 x 50 x 55	100 kg	Ø25 x 125	Ø25 x 125	2.2
VMB-03	115 x 50 x 55	130 kg	Ø20 x 310	Ø14 x 200	3.9



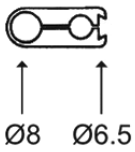
VMB-70
Delux Universal
Manyetik Ayak / 100kg



VMB-106
Mekanik Kollu
Manyetik Ayak / 100kg



VMB-106H
Hidrolik Kollu
Manyetik Ayak / 100kg



Manyetik Tabanlı Ürünler



VMF-112
Mini Manyetik Ayak



VH-70
Mini Manyetik Ayak



VMF-102
Mini Deluks Universal
Manyetik Ayak



VMS-1/4
VMS-3/8
Sulama Hortumu

Sipariş Kodu	Ayak Ölçüleri BxExY (mm)	Tutma Gücü	Sabit Kol ÇapxBoy	Hareketli Kol ÇapxBoy	Ağırlık (kg)
VMF-112	34.5 x 30 x 35	17 kg	Ø20 x 70	Ø20 x 65	0.6
VH-70	31 x 31 x 32	15 kg	Ø10 x 70	Ø6 x 90	0.4
VMF-102	44 x 50 x 38	22 kg	Ø20 x 70	Ø20 x 65	0.6
VMS-1/4	----	----	Ø11 x 370	Hortum Dişi 1/4	0.2
VMS-3/8	----	----	Ø15 x 370	Hortum Dişi 3/8	0.4
VMH-54	60 x 50 x 55	75 kg	Ø16 x 330	2 Adet Hortum	1.4
VMH-62	60 x 50 x 55	75 kg	Ø16 x 330	3 Adet Hortum	1.5
VMH-63	60 x 50 x 55	75 kg	Ø11 x 330	1 Adet Hortum	1.6
VMH-64	60 x 50 x 55	75 kg	Ø11 x 330	2 Adet Hortum	2
VMH-65	60 x 50 x 55	75 kg	Ø11 x 330	3 Adet Hortum	2.2



VMH-54
Manyetik Ayaklı
Plastik Sulama Hortumu
(2 Hortum)

VMH-62
Manyetik Ayaklı
Plastik Sulama Hortumu
(3 Hortum)



VMH-63
Manyetik Ayaklı
Metal Sulama Hortumu
(1 Hortum)



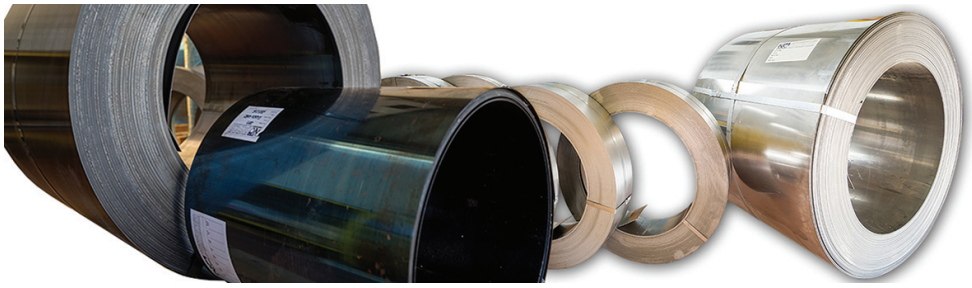
VMH-65
Manyetik Ayaklı
Metal Sulama Hortumu
(3 Hortum)

Çelik Layner Bant



Sipariş Kodu	Bant Kalınlık	Tolerans D±	En B	Boy 5 m
CLS-01	0.01	0.002		•
CLS-02	0.02			•
CLS-03	0.03	0.003		•
CLS-04	0.04			•
CLS-05	0.05			•
CLS-06	0.06			•
CLS-07	0.07	0.004		•
CLS-08	0.08			•
CLS-09	0.09			•
CLS-10	0.10			•
CLS-12	0.12			•
CLS-15	0.15	0.005	12.7	•
CLS-20	0.20	0.006		•
CLS-25	0.25	0.007		•
CLS-30	0.30			• 1m
CLS-35	0.35	0.008		•
CLS-40	0.40	0.009		•
CLS-45	0.45			•
CLS-50	0.50	0.010		• 1m
CLS-60	0.60			• 1m
CLS-70	0.70	0.012		•
CLS-80	0.80	0.013		• 1m
CLS-90	0.90			•
CLS-100	1.00	0.017		• 1m

Sulu Çelik Plaka Saclar



Sipariş Örneği | CLSP/Kalınlık x Plaka Ölçüsü

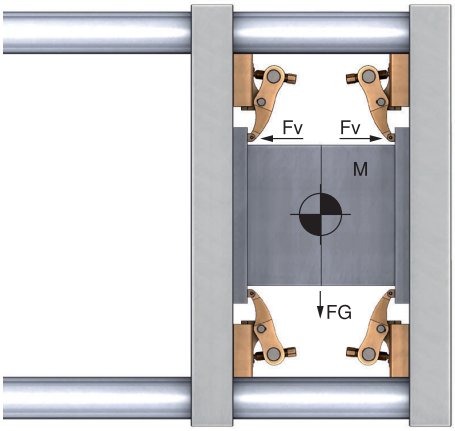
Sulu çelik plaka saclar, müşteri talebi üzerine kesim yapılarak hazırlanır.
0.05 - 3 mm arası stoklarımız mevcuttur.

İş Parçası Bağlama Elemanları

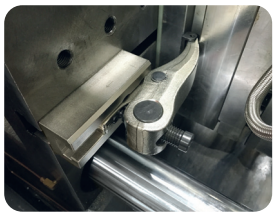


Bağlama Şabonları

Enjeksiyon Kalıpları İçin Uygulama Örneği







Hesaplama Formülü

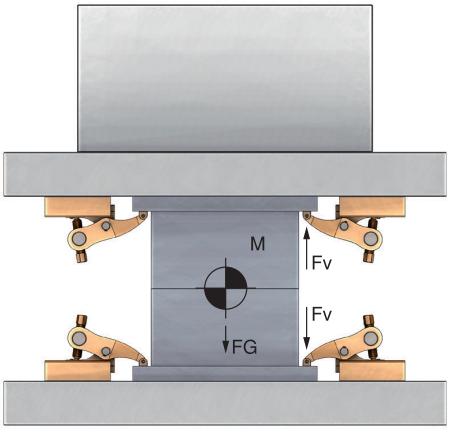
$$\frac{M \times FG}{1000} = kN \qquad \frac{2500\ kg \times 9.81}{1000} = 24.52\ kN$$

$$\frac{kN}{\mu} = \text{Sonuç / Result} \qquad \frac{24.52}{0.14} = 175.14\ kN$$

$$\frac{\text{Sonuç}}{Fv} = \text{Bağlama Sayısı / Number of Clamp} \qquad \frac{175.14\ kN}{25\ kN} = 7 \text{ Bağlama / Clamp}$$

8 adet kullanın
8 pcs Use

Pres Kalıpları İçin Uygulama Örneği



Hesaplama Formülü

$$\frac{M \times FG}{1000} = kN \qquad \frac{5000\ kg \times 9.81}{1000} = 49.050\ kN$$

$$\frac{kN}{\mu} = \text{Sonuç / Result} \qquad \frac{49.05}{0.14} = 350.35\ kN$$

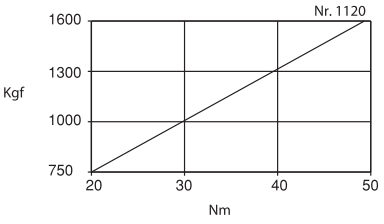
(Üst Kalıp %60) (%60 Üst Kalıp= 210.21)
(Alt Kalıp % 40) (% 40 Alt Kalıp= 140.14)

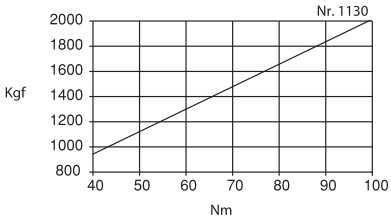
$$\frac{\text{Sonuç}_{(\text{Üst Kalıp})}}{Fv} = \text{Bağlama Sayısı / Number of Clamp} \qquad \frac{210.21\ kN_{(\text{Üst Kalıp})}}{25\ kN} = 8 \text{ Bağlama Sayısı / 8 Number of Clamp}$$

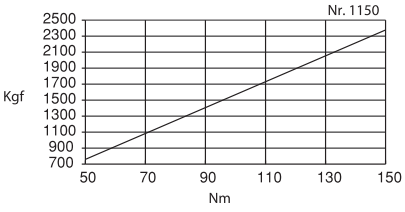
$$\frac{\text{Sonuç}_{(\text{Alt Kalıp})}}{Fv} = \text{Bağlama Sayısı / Number of Clamp} \qquad \frac{140.14\ kN_{(\text{Üst Kalıp})}}{25\ kN} = 5.6 \text{ Bağlama / Clamp}$$

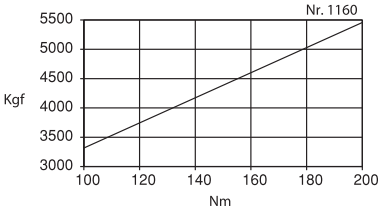
6 adet kullanın
6 pcs Use

K.K.S.P. Kuvvet Diyagramı



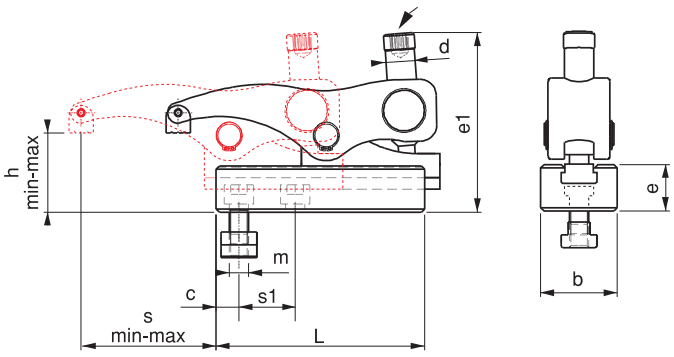






Kızaklı Kombine Bağlama Pabucu





Kullanım Alanı
Enjeksiyon makinaları presler, freze tezgahları, matkap tezgahları ve çeşitli sanayi makinaları

Sipariş Kodu	a	m	h min	h max	s	s1	e1	d	sw	L	e	b	c	Sıkma Kuvveti Kgf	(g)
1120-014 T	14	M12	0	50	12-66	25	100	M14	8	104	35.5	38	13	1600	1700
1120-016 T	16	M12	0	50	12-66	25	100	M14	8	104	35.5	38	13	1600	1700
1120-018 T	18	M12	0	50	12-66	25	100	M14	8	104	35.5	38	13	1600	1700
1130-014 T	14	M12	0	60	15-83	30	113	M18	10	130	39	48	17.5	2000	3040
1130-016 T	16	M12	0	60	15-83	30	113	M18	10	130	39	48	17.5	2000	3055
1130-018 T	18	M12	0	60	15-83	30	113	M18	10	130	39	48	17.5	2000	3085
1130-020 T	20	M12	0	60	15-83	30	113	M18	10	130	39	48	17.5	2000	3135
1130-022 T	22	M12	0	60	15-83	30	113	M18	10	130	39	48	17.5	2000	3150

AĞIR İŞ

Sipariş Kodu	a	m	h min	h max	s	s1	e1	d	sw		L	e	b	c	Sıkma Kuvveti Kgf	(g)
1150-118 T	18	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4410
1150-120 T	20	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4460
1150-122 T	22	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4515
1150-124 T	24	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4620
1150-128 T	28	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4725
1160-222 T	22	M20	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	5500	9030
1160-224 T	24	M20	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	5500	9120
1160-228 T	28	M24	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	5500	9180
1160-236 T	36	M24	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	5500	9600

UYGULAMA;
1- Alt kızağı iş parçasına uygun şekle getir sabitle
2- Üst gövdeyi kızağa sür, istenilen pozizyona getir
3- Pabuç imbus civatasıyla iş parçasını sabitle
4- Parça işlenmek için hazır

Ürün Nr. 1120-1130 Kızaklı Kombine Bağlama Pabucu
- Nr. 1120 (a) 14-18 T-Kanalda M12 imbus civata DIN 508 T-Pabuçla kullanılır. Parça yükseklik sıkma aralığı 0-50 mm ileri-geri hareket mesafesi 54mm'dir. Sıkma Kuvveti 1600 kgf.
- Nr.1130 (a) 14-22 T-Kanalda M12 imbus civata DIN 508 T-Pabuçla kullanılır. Parça yükseklik sıkma aralığı 0-60 mm ileri-geri hareket mesafesi 68mm'dir. Sıkma Kuvveti 2000 kgf.

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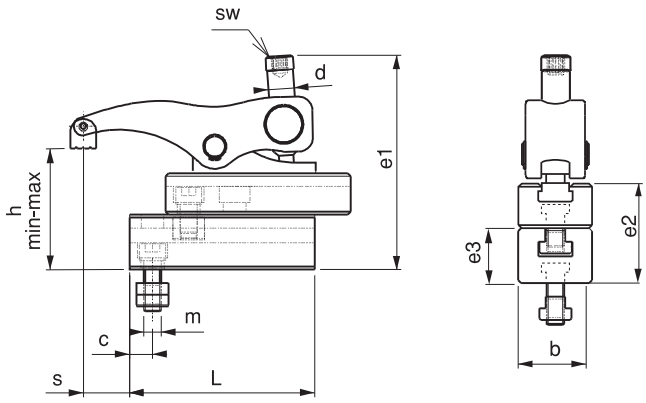
Kızaklı Kombine Bağlama Pabucu





Sipariş Kodu	a	m	h min	h max	s	e1	e2	d	sw	L	b	e3	c	(g)
1120-014 DT	14	M12	36	86	12-66	136	71.5	M14	8	104	38	38	13	2540
1120-016 DT	16	M12	36	86	12-66	136	71.5	M14	8	104	38	38	13	2540
1120-018 DT	18	M12	36	86	12-66	136	71.5	M14	8	104	38	38	13	2540
1130-014 DT	14	M12	45	105	15-83	158	83	M18	10	130	48	45	17.5	4750
1130-016 DT	16	M12	45	105	15-83	158	83	M18	10	130	48	45	17.5	4775
1130-018 DT	18	M12	45	105	15-83	158	83	M18	10	130	48	45	17.5	4805
1130-020 DT	20	M12	45	105	15-83	158	83	M18	10	130	48	45	17.5	4855
1130-022 DT	22	M12	45	105	15-83	158	83	M18	10	130	48	45	17.5	4905

AĞIR İŞ

Sipariş Kodu	a	m	h min	h max	s	e1	e2	d	sw		L	b	e3	c	(g)
1150-118 DT	18	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6625
1150-120 DT	20	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6690
1150-122 DT	22	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6750
1150-124 DT	24	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6840
1150-128 DT	28	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6960
1160-222 DT	22	M20	79	139	17-92	235	114	M24	12	24	178	74	59	24	13330
1160-224 DT	24	M20	79	139	17-92	235	114	M24	12	24	178	74	59	24	13465
1160-228 DT	28	M24	79	139	17-92	235	114	M24	12	24	178	74	59	24	13580
1160-236 DT	36	M24	79	139	17-92	235	114	M24	12	24	178	74	59	24	13890

UYGULAMA;
1- Alt desteği iş parçasına uygun şekle getir sabitle
2- K.K.S.P. destekler artırılarak istenilen mesafeye ulaşılır
3- K.K.S.P. imbus civata ile T-Pabuca karşılık T-Kanala tak istenilen pozisyona getir.
4- Pabuç imbus civatasıyla iş parçasını sabitle

Ürün Nr. 1120:Alt Destekli
- M12 İmbus civata DIN 508 T-Pabuçla kullanılır.
- Parça yükseklik sıkma aralığı 36-86mm
- Sıkma kuvveti 1600kgf

Ürün Nr. 1130:Alt Destekli
- M12 İmbus civata DIN 508 T-Pabuçla kullanılır.
- Parça yükseklik sıkma aralığı 45-105mm
- Sıkma kuvveti 2000kgf

1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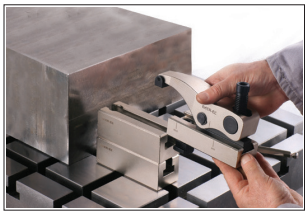
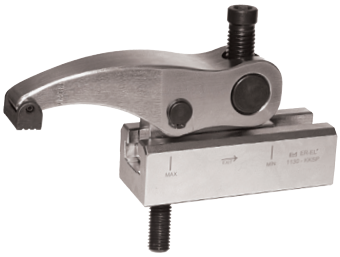
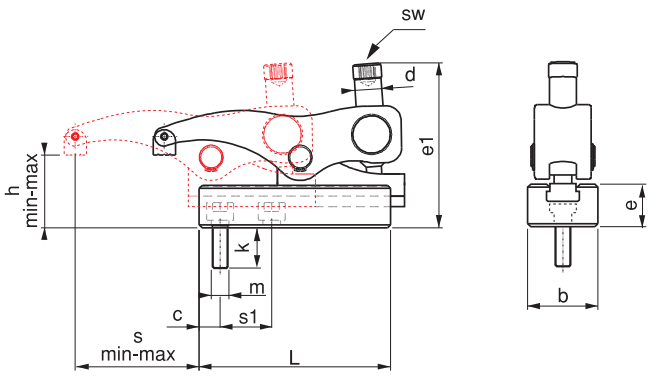


4


Kızaklı Kombine Bağlama Pabucu





Sipariş Kodu	m	h		s	s1	e1	d	sw	L	e	b	c	k	Sıkma Kuvveti Kgf	(g)
		min	max												
1120-010 M	M10	0	50	12-66	25	100	M14	8	104	35.5	38	13	20	1600	1700
1120-012 M	M12	0	50	12-66	25	100	M14	8	104	35.5	38	13	20	1600	1700
1130-012 M	M12	0	60	15-83	30	113	M18	10	130	39	48	17.5	22	2000	3000
1130-016 M	M16	0	60	15-83	30	113	M18	10	130	39	48	17.5	26	2000	3030

Sipariş Kodu	m	h		s	s1	e1	d	sw		L	e	b	c	k	Sıkma Kuvveti Kgf	(g)
		min	max													
1150-116 M	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	26	2500	4340
1150-118 M	M18	0	65	18-96	35	125	M20	12		140	43	55	19.5	30	2500	4360
1150-120 M	M20	0	65	18-96	35	125	M20	12		140	43	55	19.5	30	2500	4370
1160-220 M	M20	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	34	5500	8880
1160-222 M	M22	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	38	5500	8900
1160-224 M	M24	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	44	5500	8920
1160-230 M	M30*	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	51	5500	9110

AVANTAJLARI;
- 1600 kgf - 2000 kgf sıkma kuvveti
- Delik ve T-Kanalda kullanım
- Kızak üzerinde kaydırarak değişik pozizyonlarda sabitleme
- imbus civatasıyla desteksiz yüksek ve düşük mesafeleri sıkar
- Pratik yapısından dolayı hızlı ve kolay şekilde bağlama sağlar

Ürün Nr. 1120 Kızaklı Kombine Bağlama Pabucu
- M10-M12 diş deliklerde (1120-310)-(1120-312) Referans Nr. imbus civatayla kullanılır.
- Parça yükseklik sıkma aralığı 0-50mm, sıkma kuvveti 1600 kgf.

Ürün Nr. 1130 Kızaklı Kombine Bağlama Pabucu
- M12-M16 diş deliklerde (1130-412)-(1130-416) Referans Nr. imbus civatayla kullanılır.
- Parça yükseklik sıkma aralığı 0-60mm, sıkma kuvveti 2000 kgf.

1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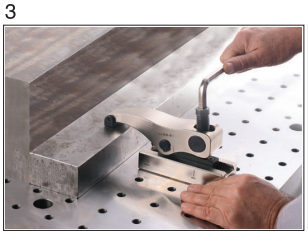
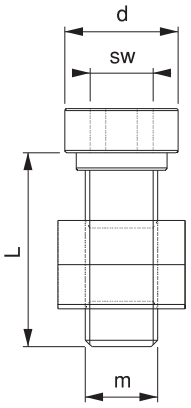


4


Sabitleme İmbus Civata ve T-Pabuç





Sipariş Kodu	a	m	L	d	sw	(g)
1120-512	12	M10	29	16.5	8	48
1120-514*	14	M12	29	16.5	8	54
1130-614*	14	M12	30	20.5	10	80
1130-616	16	M12	30	20.5	10	100
1130-618	18	M12	30	20.5	10	130
1130-620	20	M12	36	20.5	10	180
1130-622	22	M12	36	20.5	10	220
1150-718*	18	M16	34	24.5	12	145
1150-720	20	M16	34	24.5	12	190
1150-722	22	M16	42	24.5	12	260
1150-724	24	M16	42	24.5	12	350
1150-728	28	M16	42	24.5	12	470
1160-822	22	M20	45	34	12	320
1160-824	24	M20	45	34	12	410
1160-826*	28	M24	45	34	12	550
1160-828	28	M24	55	34	12	580
1160-832	32	M24	61	34	12	603
1160-836	36	M24	66	38.5	12	865

- (a) 14-28 T-Kanal sabitleme imbus civata ve T-Pabuç DIN 508
- Kalite 10.9
- Siyah Kaplama
- Yıldızlı olan kodlar alt destek civatalarıdır.

Ön Baskı Pabucu



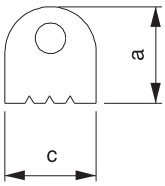
DP

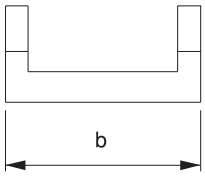


BSP



ESP

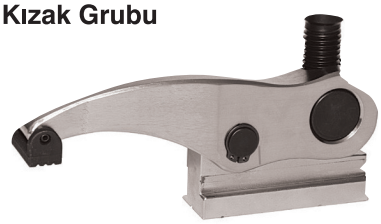




Sipariş Kodu	a	b	c	(g)
1120-DP	13.5	26.5	12	15
1120-BSP	15.5	26.5	12	18
1120-ESP	18	26.5	12	21
1130-DP	17	32	15	20
1130-BSP	19	32	15	30
1130-ESP	22	32	15	30
1150-DP	19	38	18	40
1150-BSP	21	38	18	40
1150-ESP	25	38	18	50
1160-DP	22	44	22	55
1160-BSP	25	44	22	70
1160-ESP	28	44	22	80

- Ürün DP : Düz parça sıkma
- Ürün BSP: Boyuna silindir sıkma
- Ürün ESP: Enine silindir sıkma
- Siyah Kaplama

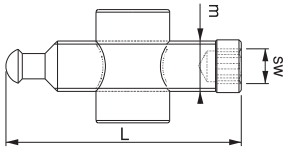
Üst Kızak Grubu



Sipariş Kodu	a	h		sw		(g)
		min	max			
1120-0050	14-18	0	50	8	-	860
1130-0060	14-22	0	60	10	-	1680
1150-0062	18-28	0	65	12	-	2565
1160-2080	22-36	20	80	12	24	5050

Pabuç Kaldırma Civata ve Somunu



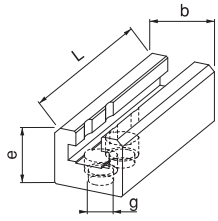


Sipariş Kodu	m	L	sw		(g)
1120-0714	M14	72	8	-	138
1130-0818	M18	83	10	-	235
1150-0920	M20	96	12	-	360
1160-1024	M24	134	12	24	795

• Kalite 10.9 • Siyah Kaplama

T-Kızaklı Gövde

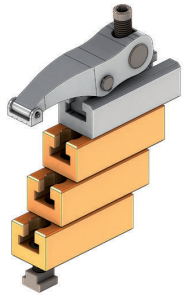


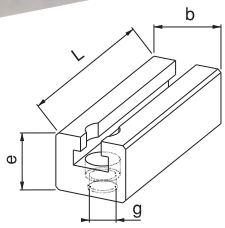


Sipariş Kodu	g	a	L	b	e	(g)
1120-045	M10 M12	14-18	104	38	35.5	750
1130-047	M12 M16	18-28	130	48	39	1275
1150-053	M16 M18 M20	18-28	140	55	42	1700
1160-074	M20 M22 M24	22-28	178	74	55	3650
1160-075	M30*	36	178	74	55	3650

Alt Destek



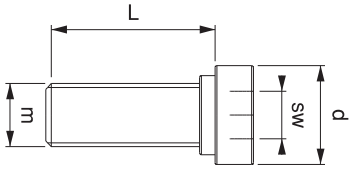




Sipariş Kodu	g	a	L	b	e	(g)
1120-040	M10 M12	14	104	38	38	820
1130-045	M12 M16	14	130	48	45	1630
1150-048	M16 M18 M20	18	140	55	48	2070
1160-059	M20 M22 M24	28	178	74	55	3980

Sabitleme İmbus Civatası

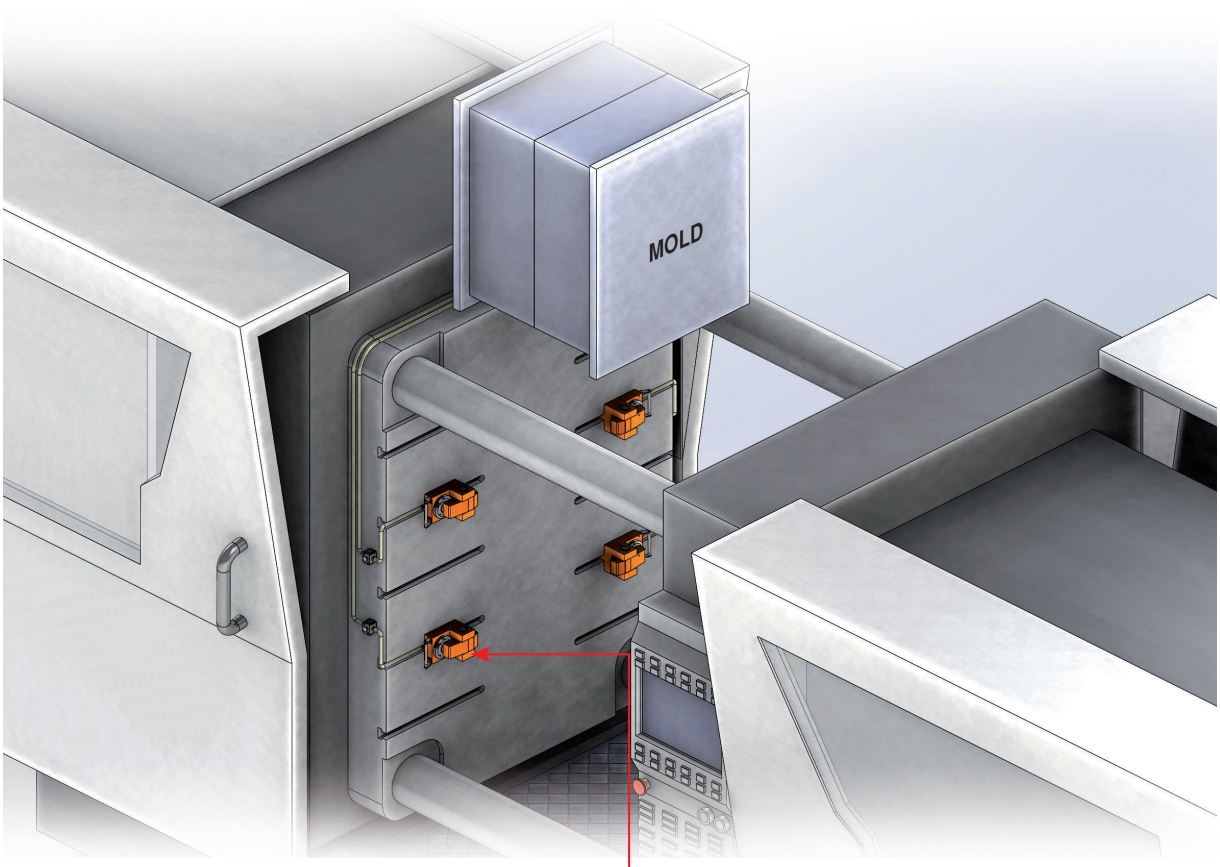




Sipariş Kodu	m	L	d	sw	(g)
1120-310	M10	29	16.5	8	28
1120-312	M12	29	16.5	8	34
1130-412	M12	30	20.5	10	45
1130-416	M16	34	20.5	10	75
1150-516	M16	34	24.5	12	75
1150-518	M18	38	24.5	12	90
1150-520	M20	38	24.5	12	105
1160-620	M20	45	34	12	170
1160-622	M22	49	34	12	95
1160-624	M24	45	34	12	390
1160-724	M24	55	34	12	405
1160-730	M30*	66	38.5	12	400

• M12-M16-M18-M20 diş delikler için
• Kalite 10.9
• Siyah kaplama

Hızlı Kalıp Değiştirme Sistemi / Enjeksiyon



Hidrolik Pabuç Modelleri / Hydraulic Clamp Models



Model CA



Model CV



Model CB



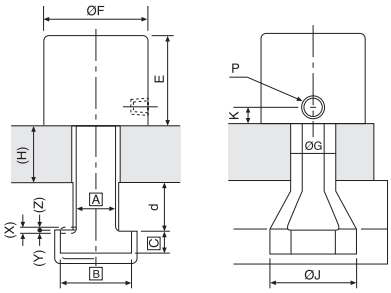
Model CC



Model CD

CA Hidrolik Pabuç Model



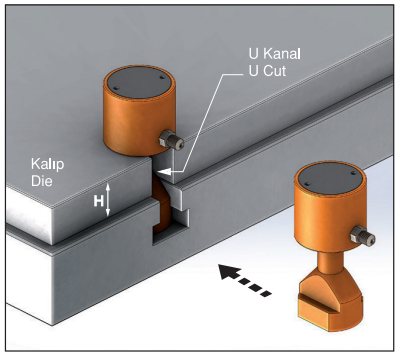


L: Pabuç için şablonun uzunluğu

Model		CA-1	CA-2	CA-4	CA-6	CA-10	CA-16	CA-25
Bağlama kapasitesi	Ton	1	2	4	6	10	16	25
Toplam strok (X)	mm	6	8	8	8	8	8	8
Pabuç strok (Y)	mm	3	4	4	4	4	4	4
Muhafaza edilen strok (Z)	mm	3	4	4	4	4	4	4
Silindirin toplam hacmi	cc	3	7	13	21	32	54	76
Kalıp taban kalınlığı toleransı (H)	mm	±1.5	±2	±2	±2	±2	±2	±2

Hidrolik basınç : 250kgf/cm2

- Satın almadan önce T-Kanal (a,b,c,d) ölçüsü ve kalıp tabanı kalınlığını (H) bildiriniz.

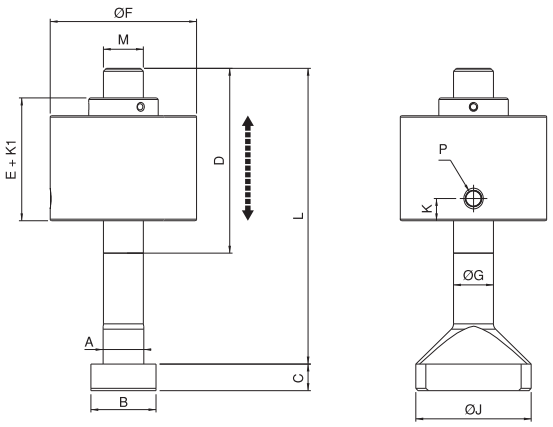


Sipariş Kodu	ØF	E	ØG	ØJ	H+d max.	L max.	a min.	K	P
1010-CA01	44	48	12	30	60	12	8	9.5	PT1/8
1010-CA02	53	52	16	48	80	17	12	12	PT1/8
1010-CA04	65	58	23	58	90	20	16	15	PT1/4
1010-CA06	82	65	30	64	100	25	18	15	PT1/4
1010-CA10	99	71	38	78	110	30	22	15	PT1/4
1010-CA16	126	82	45	88	120	38	28	17	PT1/4
1010-CA25	150	100	55	98	140	45	36	23	PT1/4

Ürün Nr. 1010 Hidrolik Pabuç Model CA
- Pabuç ölçüleri (A), (B) ve (C) T-Kanala bağlı olarak belirlenir.
- Eğer pabuç ölçüsü (H+d) yukarıdaki maksimum değerlerden fazla ise, özel tasarım olarak kabul edilir.
- Standart Sıcaklık : 60°
- Opsiyonel Sıcaklık : 160°

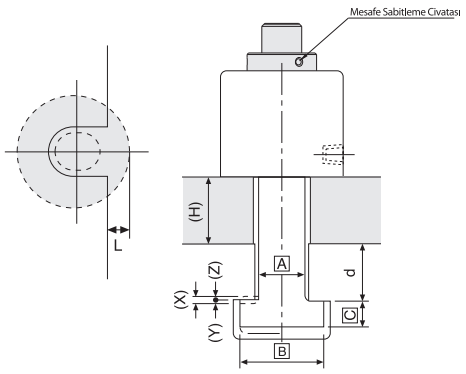
CV Hidrolik Pabuç Model





Model		CV-4	CV-6	CV-10
Bağlama kapasitesi	Ton	4	6	10
Toplam strok (X)	mm	8	8	8
Pabuç strok (Y)	mm	4	4	4
Muhafaza edilen strok (Z)	mm	4	4	4
Silindirin toplam hacmi	cc	13	21	32
Kalıp taban kalınlığı toleransı (H)	mm	±2	±2	±2

Hidrolik basınç : 250kgf/cm2

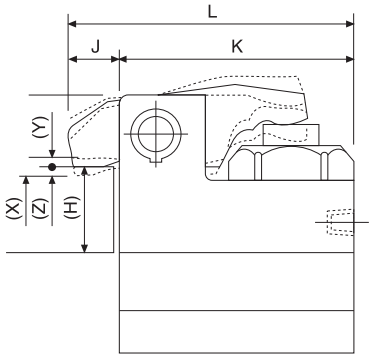


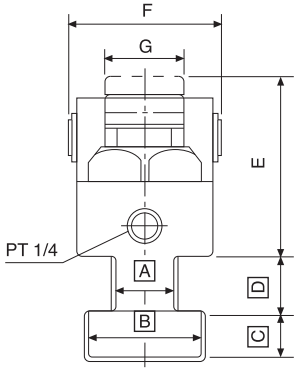
Sipariş Kodu	a	A	B	C	D	E + K1	Ayar Mesafesi	F	Max. L	M	ØG	ØJ	K	P
1010-CV042020125	20	19.6	32	12	85	70	15	65	125	M20	20	58	15	PT 1/4
1010-CV042022160	20	19.6	32	12	110	70	40	65	160	M20	20	58	15	PT 1/4
1010-CV042020160	22	21.6	35	14	85	70	15	65	125	M20	20	58	15	PT 1/4
1010-CV042022125	22	21.6	35	14	110	70	40	65	160	M20	20	58	15	PT 1/4
1010-CV062424125	24	23.6	40	16	85	77	8	82	125	M24	24	64	15	PT 1/4
1010-CV062424160	24	23.6	40	16	110	77	33	82	160	M24	24	64	15	PT 1/4
1010-CV062428125	28	27.6	44	18	85	77	8	82	125	M24	24	64	15	PT 1/4
1010-CV062428160	28	27.6	44	18	110	77	33	82	160	M24	24	64	15	PT 1/4
1010-CV102727160	27	26.6	46	18	110	83	27	99	160	M27	27	78	15	PT 1/4
1010-CV102727200	27	26.6	46	18	125	83	42	99	200	M27	27	78	15	PT 1/4
1010-CV102732160	32	31.6	50	20	110	83	27	99	160	M27	27	78	15	PT 1/4
1010-CV102732200	32	31.6	50	20	125	83	42	99	200	M27	27	78	15	PT 1/4

Ürün Nr. 1010 Hidrolik Pabuç Model CV
- Vidalanarak mesafe ayarı yapılabilir.
- Standart Sıcaklık : 60°
- Opsiyonel Sıcaklık : 160°

CB Hidrolik Pabuç Model

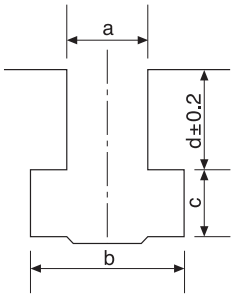






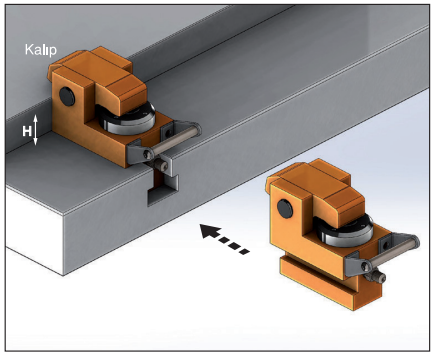
Model		CB-1	CB-2	CB-4	CB-6	CB-10	CB-16	CB-25
Bağlama kapasitesi	Ton	1	2	4	6	10	16	25
Toplam strok (X)	mm	6	8	8	8	8	8	8
Pabuç strok (Y)	mm	2.5	3	3	3	3	3	3
Muhafaza edilen strok (Z)	mm	3.5	5	5	5	5	5	5
Silindirin toplam hacmi	cc	3	7.5	13	21	38	55	98
Kalıp taban kalınlığı toleransı (H)	mm	±1.5	±2	±2	±2	±2	±2	±2

Hidrolik basınç: 250kgf/cm2



• Satın almadan önce T-Kanal (a,b,c,d) ölçüsü ve kalıp tabanı kalınlığını (H) bildiriniz.

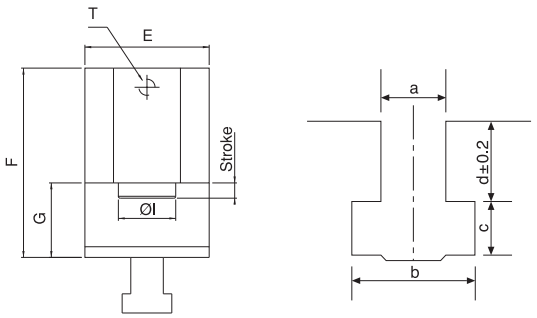
Sipariş Kodu	L	K	J	H min.	H+d min. max	E min.	F	G	a min.	C min.	P
1015-CB01	74.5	60	14.5	25	100	42	44	20	10	6.5	PT1/8
1015-CB02	110	90	20	25	100	73	68	32	14	10	PT1/4
1015-CB04	134	110	24	25	130	77	79	40	18	12	PT1/4
1015-CB06	159	130	29	30	150	92	96	46	22	14	PT1/4
1015-CB10	189	159	30	40	140	114	117	54	24	16	PT1/4
1015-CB16	230	200	30	40	130	126	129	58	28	20	PT1/4
1015-CB25	265	235	30	45	120	148	156	70	36	23	PT1/4

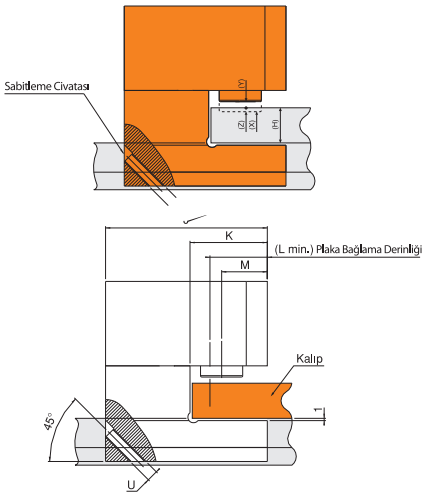


Ürün Nr. 1015 Hidrolik Pabuç Model CB
- Pabuç ölçüleri (A),(B),(C) ve (D) T-Kanala bağlı olarak belirlenir.
- Standart Sıcaklık : 60°
- Opsiyonel Sıcaklık : 160°

CC Hidrolik Pabuç Model







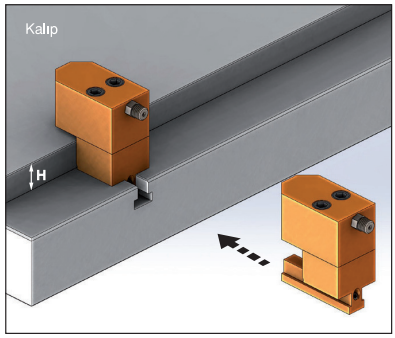
Model		CC-1	CC-2	CC-4	CC-6	CC-10
Bağlama kapasitesi	Ton	1	2	4	6	10
Toplam strok (X)	mm	9	9	9	12	12
Pabuç strok (Y)	mm	4	4	4	4	4
Muhafaza edilen strok (Z)	mm	5	5	5	8	8
Silindirin toplam hacmi	cc	3	7.5	13	21	38
Kalıp taban kalınlığı toleransı (H)	mm	±1.5	±2	±2	±2	±2

Hidrolik basınç : 250kgf/cm2

- Satın almadan önce T-Kanal (a,b,c,d) ölçüsü ve kalıp tabanı kalınlığını (H) bildiriniz.

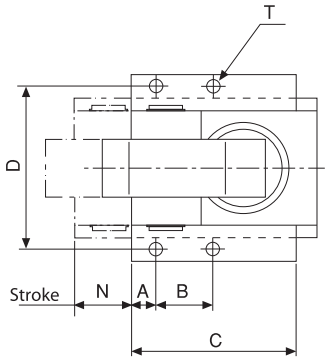
Sipariş Kodu	H min. - max	A min.	C min.	E	F	G	I	J	K	L min.	M	T	U
1015-CC01	20-35	10	6.5	43	G+43	H+9	Ø16	75	33	27	21.5	1/8	M5
1015-CC02	25-40	14	10	50	G+50	H+9	Ø18	91	43	30	25	1/8	M5
1015-CC04	25-40	18	12	65	G+60	H+9	Ø30	115	55	40	32.5	1/8	M8
1015-CC06	35-55	22	14	80	G+65	H+12	Ø37.5	130	65	48	40	1/4	M10
1015-CC10	40-60	24	16	100	G+82	H+12	Ø50	160	85	60	49	1/4	M12

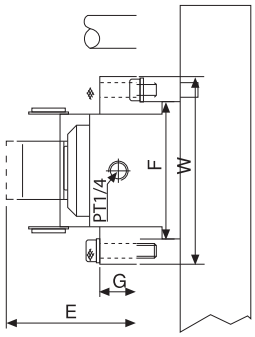
Ürün Nr. 1015 Hidrolik Pabuç Model CC
- Pabuç ölçüleri (A),(B),(C) ve (D) T-Kanala bağlı olarak belirlenir.
- Standart Sıcaklık : 60°
- Opsiyonel Sıcaklık : 160°



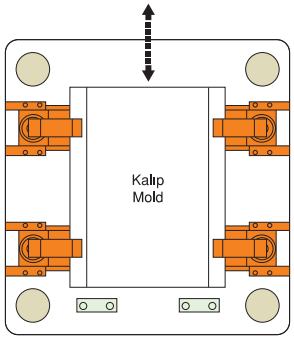
CD Hidrolik Pabuç Model







Model		CD-2	CD-4	CD-6	CD-10	CD-16	CD-25
Bağlama kapasitesi	Ton	2	4	6	10	16	25
Toplam strok (X)	mm	8	8	8	8	8	8
Pabuç strok (Y)	mm	3	3	3	3	3	3
Muhafaza edilen strok (Z)	mm	5	5	5	5	5	5
Silindirin toplam hacmi	cc	7.5	13	21	38	55	98
Kalıp taban kalınlığı toleransı (H)	mm	±2	±2	±2	±2	±2	±2



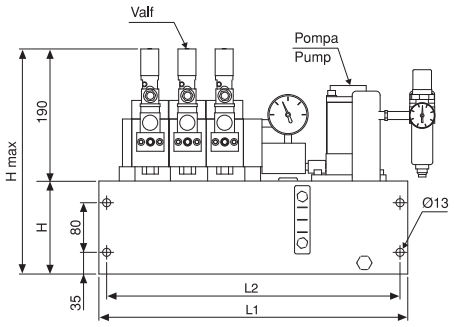
Hidrolik basınç : 250kgf/cm^2

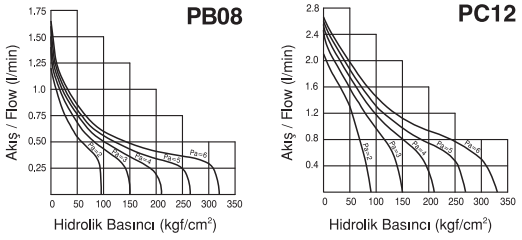
Sipariş Kodu	A	B	C	D	E min.	F	G	W	N max.	T
1015-CD02	12	20	80	98	90	76	30	124	25	M10x20D
1015-CD04	12	25	100	109	93	87	30	135	30	M12x24D
1015-CD06	15	30	120	126	109	104	30	152	35	M12x24D
1015-CD10	15	35	150	148	131	124	36	174	40	M14x28D
1015-CD16	20	40	200	166	142	138	44	200	50	M18x36D
1015-CD25	20	45	235	200	163	168	48	240	60	M22x45D

- Standart Sıcaklık : 60°
- Opsiyonel Sıcaklık : 160°

1040-PB 1040-PC Hava Tahrikli Hidrolik Pompa Ünitesi





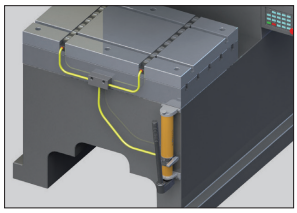


Sipariş Kodu	L1	L2	H	(kg)
1040-PB0801P1V	250	225	367	15.55
1040-PB0801P2V	310	285	367	18.55
1040-PB0801P3V	428	403	367	21.50
1040-PB0801P4V	487	462	367	24.70
1040-PC1201P3V	-	397	367	-

- Hidrolik Pompa hava tahriklidir. Hidrolik basınç ayarlanan seviyeye geldiğinde pompalamayı tasarruf etmek için keser. Diğer taraftan, çalışma basıncı azalırsa, pompa devamlılığı sağlamak için otomatik olarak basınç verir.
- Devre kontrol sistemi olası kaçakları denetleme ve engelleme fonksiyonuyla tasarlanmıştır. Pnömatik basınç devre dışı kalsa bile hidrolik basınç kalır.
- Basınç denetleme ve makinelere bağlanma özelliği vardır.
- CA ve CB-16 veya 25 bağlama pabuçlarıyla uygulama yapıldığında, PC12 model pompa kullanılması önerilir.
- Kapasite 400 max. Bar
- Basınç kontrol valfli

1040-PB0101 Hidrolik El Pompası





Alternatif Sistem

Sipariş Kodu
1040-PB0101

- Sadece kalıp kaldırma kullanıldığında alternatif olarak hidrolik el pompası kullanılabilir.
- 250 Bar

1041 Kontrol Ünitesi



Sipariş Kodu	Devreli
1041-QDC01	1
1041-QDC02	2
1041-QDC03	3
1041-QDC04	4

1040-VD Elektrikli Hidrolik Pompa Ünitesi



Sipariş Kodu	Valf	Akış - Flow		Bar
		(l/min)	(l/min)	
1040-1P1VD	1	6	14	150
1040-1P2VD	2	6	14	150
1040-1P3VD	3	6	14	150
1040-1P4VD	4	6	14	150

- Doğrudan bağlantı sisteme uygundur.
- Satın almadan önce (l/dk.) akış hızını belirtiniz.

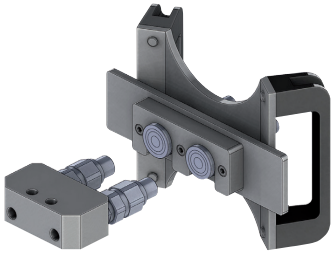
1040-V Elektrikli Hidrolik Pompa Ünitesi



Sipariş Kodu	Valf	Akış - Flow		Bar
		(l/min)	(l/min)	
1040-1P1V	1	6	14	150
1040-1P2V	2	6	14	150
1040-1P3V	3	6	14	150
1040-1P4V	4	6	14	150

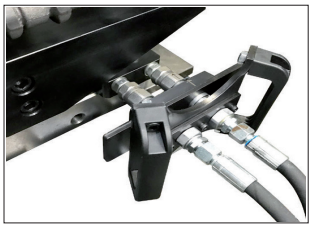
- Jaklı sisteme uygundur.
- Satın almadan önce (l/dk.) akış hızını belirtiniz.

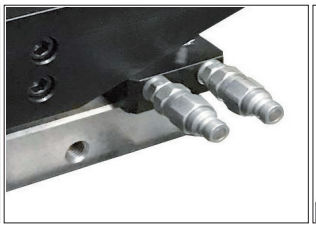
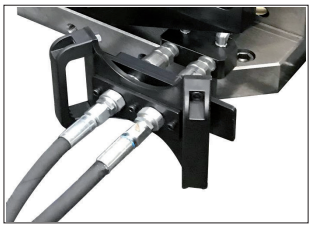
1042-02 Modüler Quick Coupling



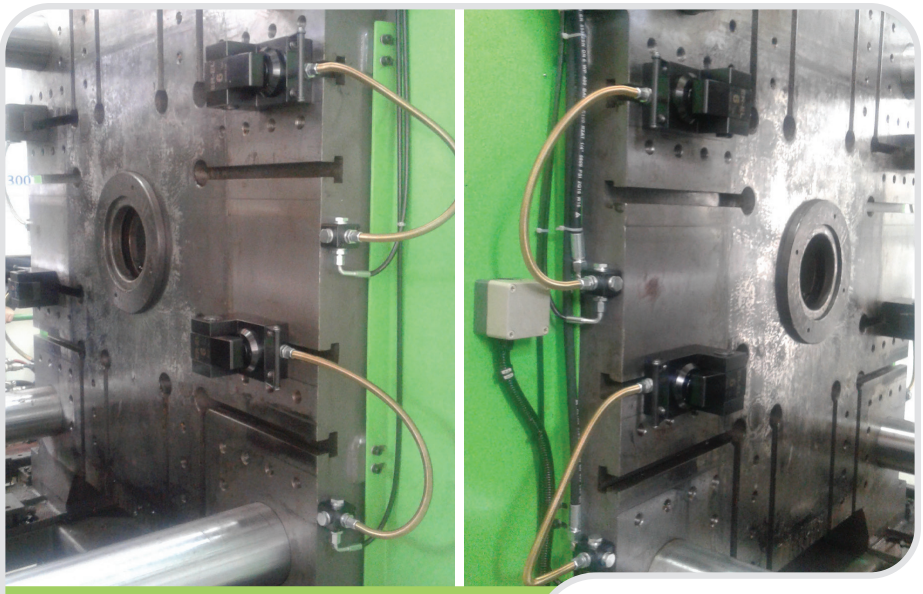
Sipariş Kodu
1042-02

Hidrolik sistem kurulumunda üniteler arasında dağıtım sağlar, Jaklı sisteme uygundur.

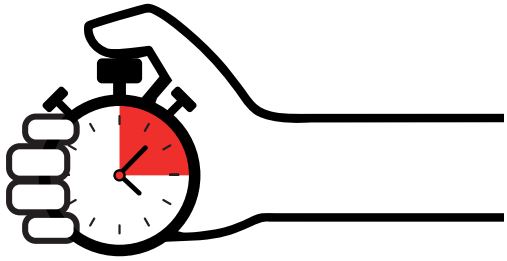


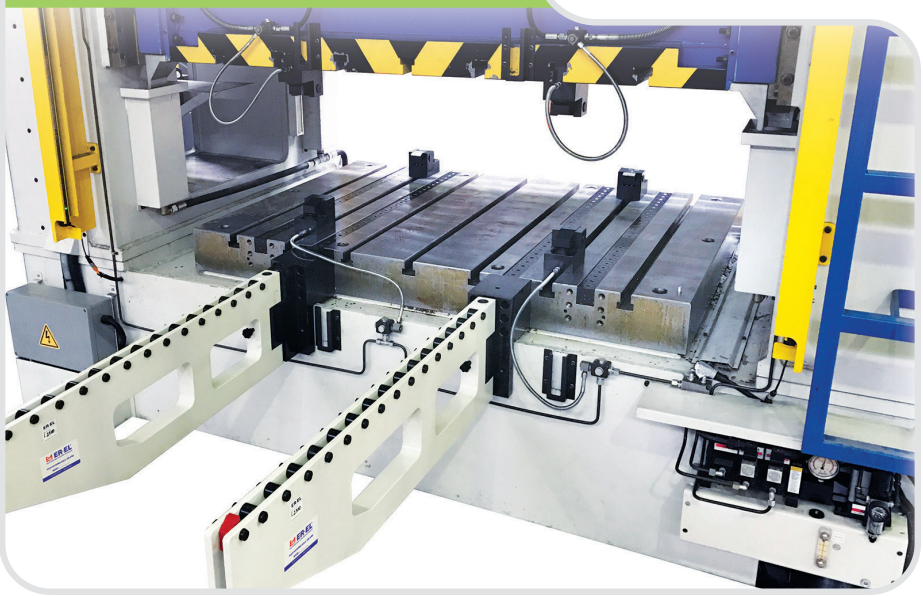
Hızlı Kalıp Değiştirme Sistemleri



QUICK MOLD CHANGE SYSTEM



QUICK DIE CHANGE SYSTEM



Hızlı Kalıp Değiştirme Sistemi

Kalıpların hızlı değiştiği, modellerin çeşitli ve üretim adetlerinin (talep miktarlarının) az olduğu zamanlarda kalıp değiştirme süresini azaltıp iş güvenliğini sağlamaktır. Bu durumda hızlı kalıp değiştirme sistemine geçmenin tam vaktidir.

Quick Die Change System

It's an era for making high frequence of die changing with multiple patterns and small quantity. In order to save die changing time and ensure operational safety, it is just in time to apply Quick Die Change System.

Uygulama

- Pres - hidrolik pres - enjeksiyon
- Değişik otomatik makina bağlama sistemi

Application

- Press - hydraulic press - injection
- Different automatic machine clamp system

Elektronik Operasyon Kontrol Paneli
Electronic Control Operation Panel

- Makineye bağlanmak için interlock control switch donanımlıdır.
- It is equipped with interlock control switch for connecting to the machine.

- Oluşabilecek herhangi bir operasyon hatasını engelemek için güvenlik kontrol aygıtı ile birlikte tasarlanmıştır.
- It is designed with safety control device which prevents any operation error.

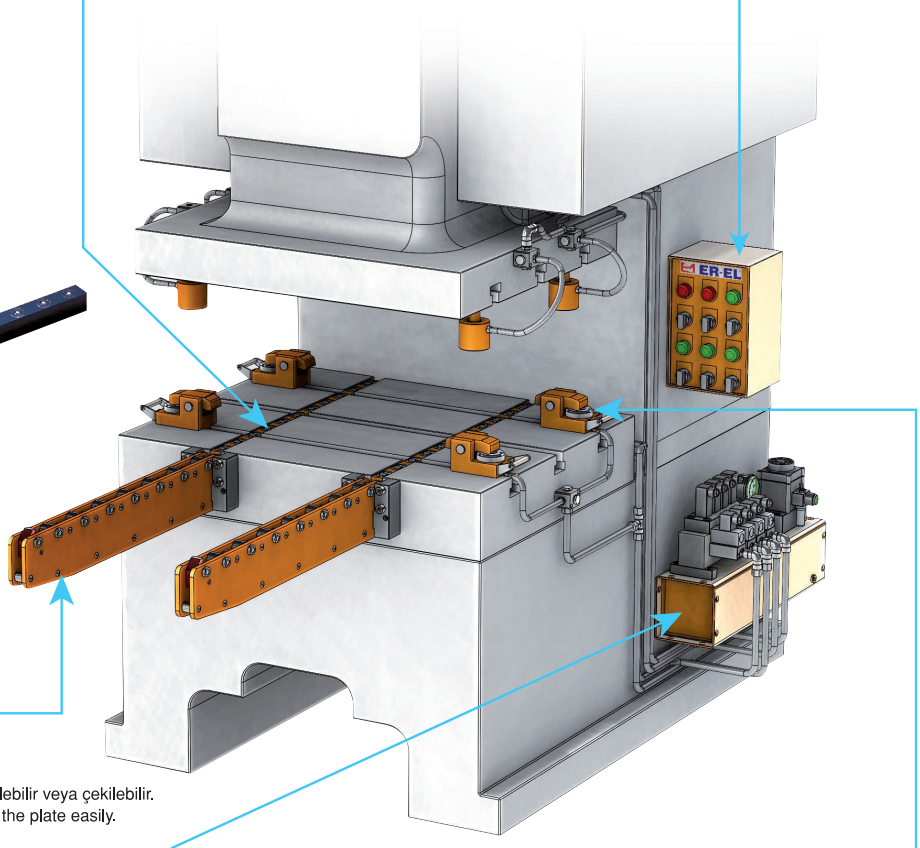
Kalıp Kaldırma / Die Lifter

Model: DL - DB - DLS - DBS

- Hidrolik tipi, yaylı tipi.
- Hydrauijc type, spring type.

- T veya U kanala kurulur.
- Install in the T-slot or U-slot.





Kalıp Kaydırma Kolu / Die Arm

Model: RC - RD - RE/RF - RS

- Tezgah pleyti üzerine kalıp kolayca itilebilir veya çekilebilir.
- Can pull out and push in the die from the plate easily.

- Kaydırma kolunun 4 ayrı modeli vardır.
- There are 4 different models of die arm.

Kalıp Pabucu / Die Clamp

Model : CA - CV - CB - CC

- Kalıbı bağlamak için civata kullanılan geleneksel metodların yerini alır.
- Replacing the traditional method which uses screws to fix dies.

- Ürün T-Kanal pleytli tezgahlarda kullanılır.
- Using T-Slots to lock or fix directly on the plate.

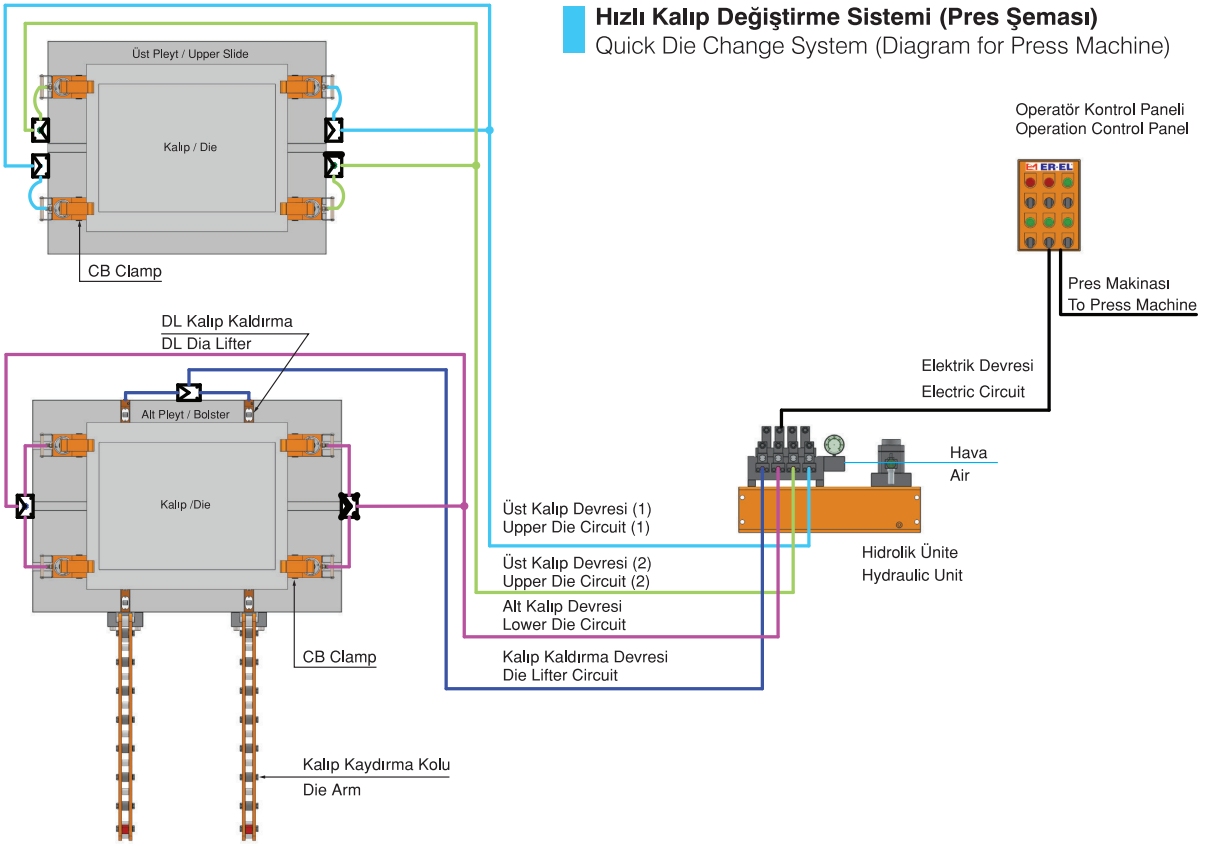


Hava Tahrikli Hidrolik Pompa Ünitesi
Air Driven Hydraulic Pump Unit

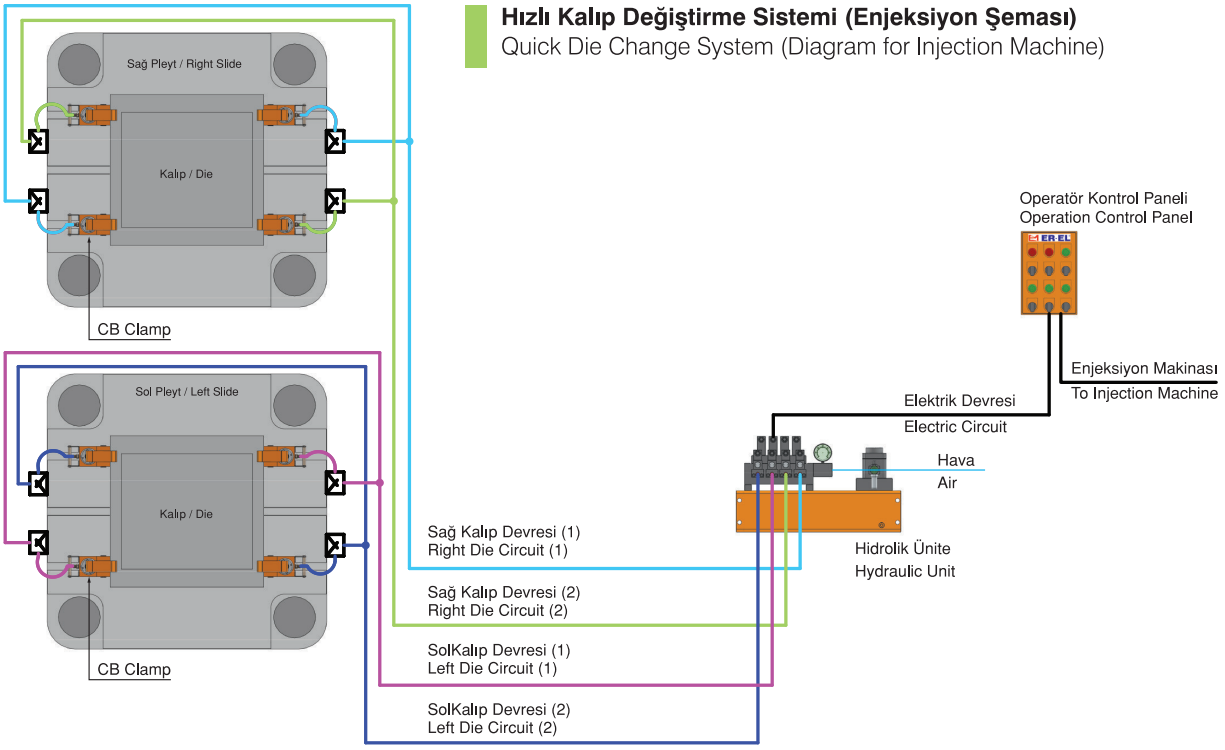
- Makinelerde basınç denetleme ve interlock özelliği.
- Capable of pressure inspection and interlocking with machines.

- Aygıtlar arası eşit seviyede hareket operasyon güvenliğini sağlar.
- The movements between each devices will be pined down mutually in order to ensure operational safety.

Hızlı Kalıp Değiştirme Sistemi (Pres Şeması)
Quick Die Change System (Diagram for Press Machine)



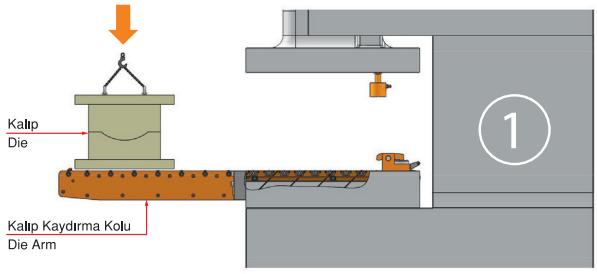
Hızlı Kalıp Değiştirme Sistemi (Enjeksiyon Şeması)
Quick Die Change System (Diagram for Injection Machine)



Hızlı Kalıp Değiştirme Sistemi (Pres)
Quick Die Change System (Press)

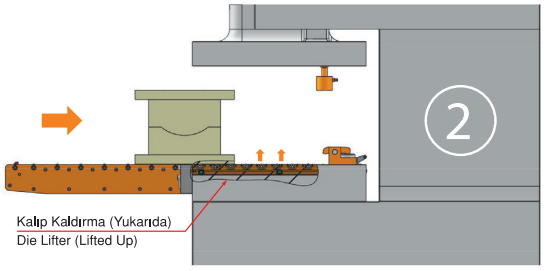
Kalıbı yükleyin.
Bir vinç veya forklift kullanarak kalıbı yükleyin.
Kalıp kaydırma kolu ile kolay yükleme imkanı sağlar.

Load the die
Load the die using a crane or forklift.
The pre-rollers enable easy loading.



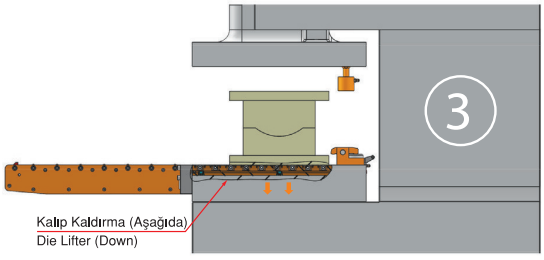
Kalıbı pleyte aktarın.
Kalıp kaydırma kolu kalıp kaldırıcılarla kalıbı hareket ettirmek için
çok az kuvvet gerekir. Kalıp kaldırıcıları T - / U - kanallarına yerleştirilmiştir.
Kalıp kaldırma: Hidrolik basınç ON

Transfer the die to the bolster.
With the pre-rollers and die lifters,minimal force is required to move the die.
Die lifters are set in the T - / U- slots.
Die Lifter：Hydraulic pressure ON



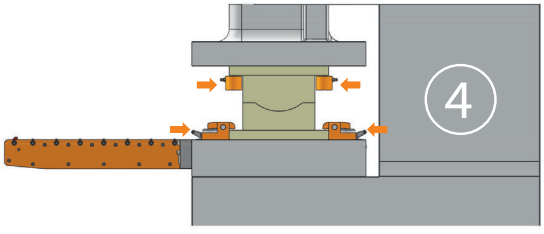
Pleytin üzerinde kalıbı ayarlayın.
Kontrol panelinden butona basarak kalıp kaldırıcı indirilir
ve kalıp pleyte temas eder.
Kalıp Kaldırma : Hidrolik Basınç OFF

Set the die on the bolster.
With push-button operation, the die lifter releases and
the die makes contact with the bolster.
Die Lifter：Hydraulic Pressure OFF



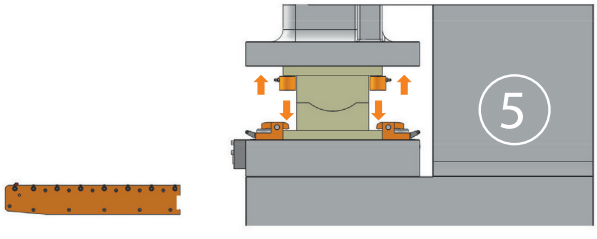
Hidrolik pabucları ayarlayın.
Hidrolik pabuçları kalıba göre ayarlayın.
Hidrolik pabuçları T kanalları üzerine kaydırarak kalıba yaklaştırın.
Hidrolik Pabuç : Hidrolik Basınç OFF

Set the automatic clamps.
Set the slide to the bottom dead center .
Slide automatic clamps on the T -slot and bring them near the die.
Hydraulic Clamp：Hydraulic Pressure OFF

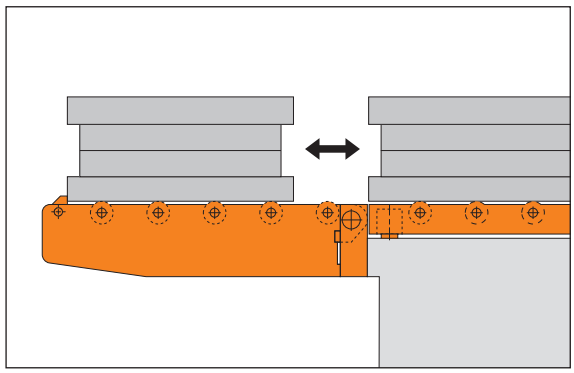


Kalıbı kilitle.
Kontrol panelinden butona basarak hidrolik pabuçlarla kalıbı kilitleyin.
Güvenlik onayından sonra kalıp kaydırma kolu çıkarılabilir.
Hidrolik Pabuç: Hidrolik Basıncı ON

Lock the die.
With push-button operation, automatic clamps lock the die.
After safety confirmation, the pre-roller can be removed.
Hydraulic Clamp：Hydraulic Pressure ON



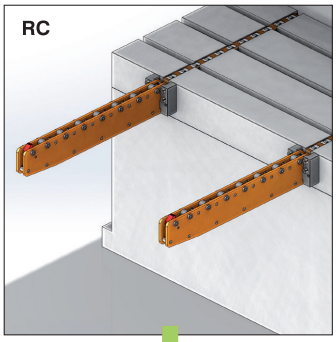
Model RC - RD - RE/RF - RS

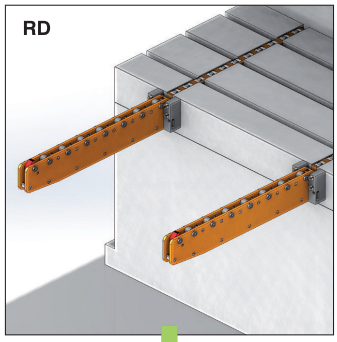


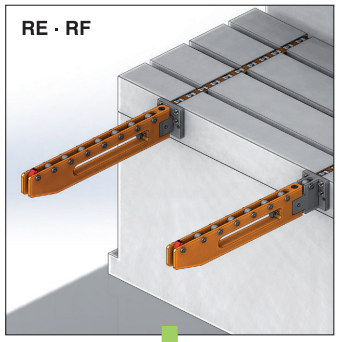
Model Seçimi / Model Selection

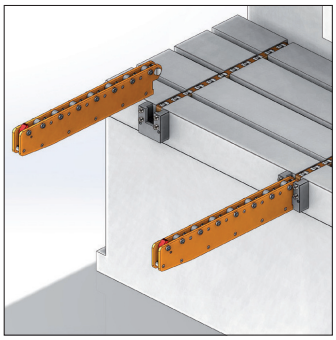
R ① – ②

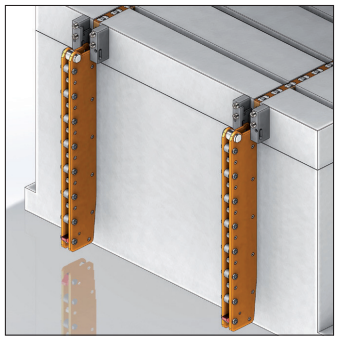
Model	Saklama Metodu / Storage Method	Tanımlama / Specification
C	Demonte / Dismantling	580 mm
D	Asmalı / Hanging	760 mm
E	Katlamalı (kısa) / Folding (short)	880 mm
F	Katlamalı (uzun) / Folding (long)	990 mm

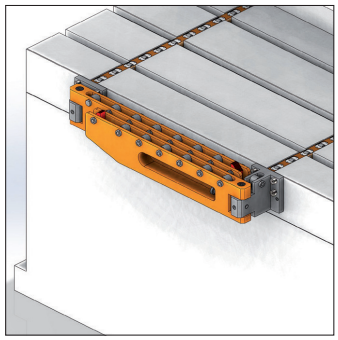




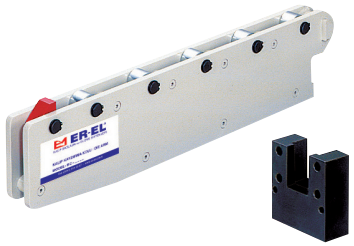


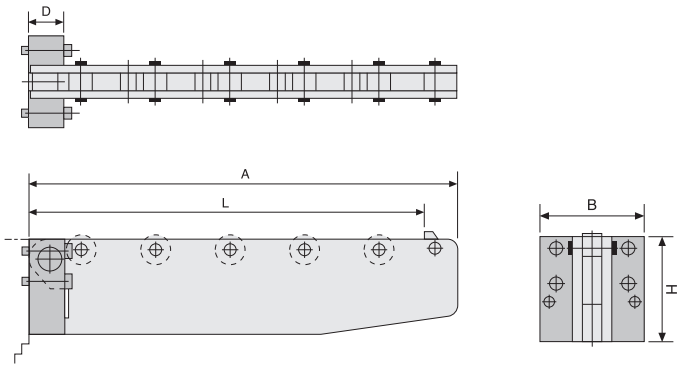






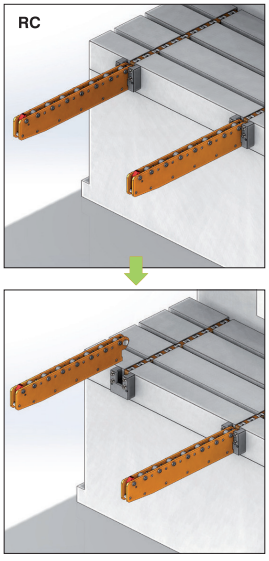
1025 -RC 1027 -RC Kalıp Kaldırma Kolu Model RC



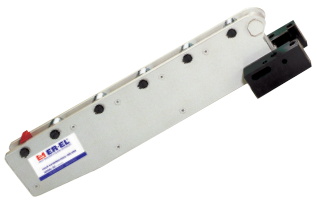


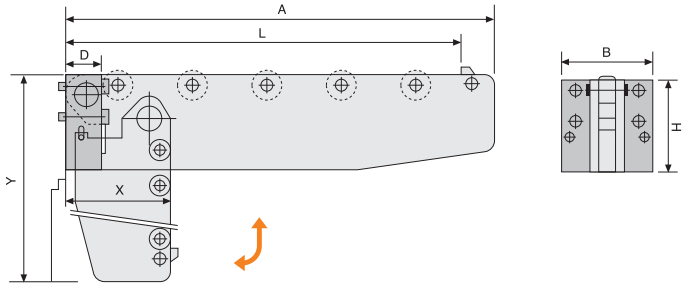
Sipariş Kodu	Destek Modeli	İhtiyaç Duyulan Kalıp uzunluğu (mm)	Max. Kapasite (kgf)	Top. Uzunluk (mm)	Destek ölçüleri			Kurulum İçin Delik Şekilleri	Silindir Sayısı
					D	B	H		
1025-RC580	RC-12	500	800	550	48	115	118	A Tipi / A Type	5
1025-RC760	RC-12	700	600	750	48	115	118	A Tipi / A Type	7
1025-RC880	RC-16	800	800	850	48	115	158	B Tipi / B Type	8
1025-RC990	RC-20	900	900	950	48	115	188	B Tipi / B Type	9
1027-RC05125	RC-14H	500	1250	550	55	130	138	C Tipi / C Type	7
1027-RC05160	RC-16H	500	1600	550	55	130	158	C Tipi / C Type	7
1027-RC05200	RC-18H	500	2000	550	55	130	178	C Tipi / C Type	7
1027-RC07125	RC-14H	700	1250	750	55	130	138	C Tipi / C Type	9
1027-RC07160	RC-16H	700	1600	750	55	130	158	C Tipi / C Type	9
1027-RC07200	RC-18H	700	2000	750	55	130	178	C Tipi / C Type	9
1027-RC08125	RC-16H	800	1250	850	55	130	158	C Tipi / C Type	10
1027-RC08160	RC-18H	800	1600	850	55	130	178	C Tipi / C Type	10
1027-RC08200	RC-20H	800	2000	850	55	130	188	C Tipi / C Type	10
1027-RC09160	RC-22H	900	1600	950	55	130	218	C Tipi / C Type	11

• RC modelinde, kol ve destek ayrı olarak kullanılabilir.



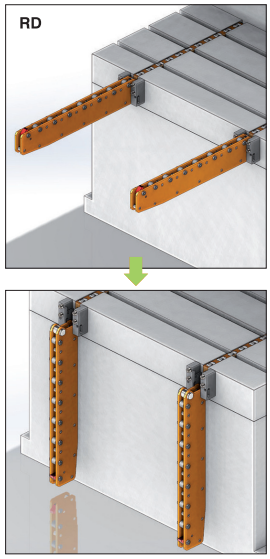
1030-RD Kalıp Kaldırma Kolu Model RD



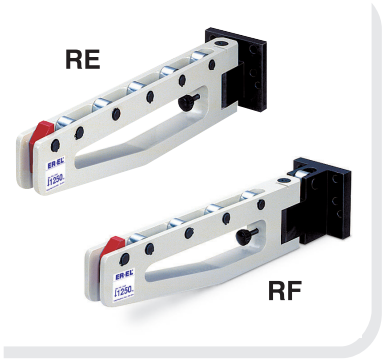


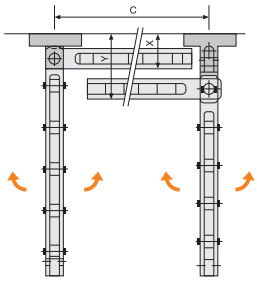
Sipariş Kodu	İhtiyaç Duyulan Kalıp uzunluğu	Max. Kapasite (kgf)	Top. Uzunluk A (mm)	Asma Ölçüleri		Destek Ölçüleri			Kurulum İçin Delik Şekilleri	Silindir Sayısı
				X	Y	D	B	H		
1030-RD580	500	800	550	140	620	52	115	118	A Tipi / A Type	5
1030-RD760	700	600	750	140	820	52	115	118	A Tipi / A Type	7
1030-RD880	800	800	850	180	960	52	115	158	B Tipi / B Type	8
1030-RD990	900	900	950	220	1100	52	115	188	B Tipi / B Type	9
1030-RD05125	500	1250	550	170	645	62	130	138	C Tipi / C Type	7
1030-RD05160	500	1600	550	190	670	62	130	158	C Tipi / C Type	7
1030-RD05200	500	2000	550	210	675	62	130	178	C Tipi / C Type	7
1030-RD07125	700	1250	750	170	840	62	130	138	C Tipi / C Type	9
1030-RD07160	700	1600	750	190	865	62	130	158	C Tipi / C Type	9
1030-RD07200	700	2000	750	210	890	62	130	178	C Tipi / C Type	9
1030-RD08125	800	1250	850	190	960	62	130	158	C Tipi / C Type	10
1030-RD08160	800	1600	850	210	985	62	130	178	C Tipi / C Type	10
1030-RD08200	800	2000	850	220	995	62	130	188	C Tipi / C Type	10
1030-RD09160	900	1600	950	250	1130	62	130	218	C Tipi / C Type	11

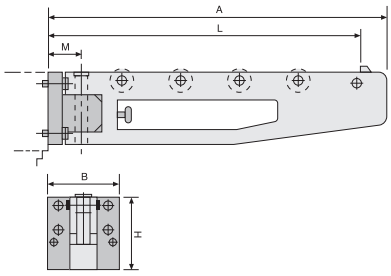
- RD modelinin asma uzunluğu (Y) zemin ve plaka arasındaki yükseklik farkından daha düşük olmalıdır.



1033-RERF 1035-RERF Kalıp Kaldırma Kolu Model RE-RF





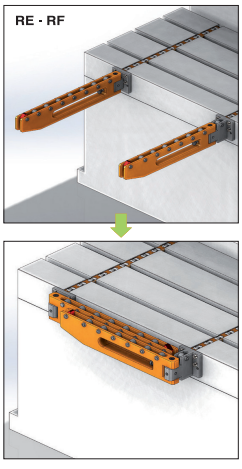


Sipariş Kodu	İhtiyaç Duyulan Kalıp uzunluğu (mm)	Max. Kapasite (kgf)	Top. Uzunluk (mm)	Kurulum İçin Gerekli Minimum Mesafe (mm)	Katlı Haliyle Ölçüler		Destek Ölçüleri		Silindir Sayısı	M	N	Kurulum İçin Delik Şekilleri
					X	Y	B	H				
1033-RERF580	500	800	550	525	90	150	115	118	5	57	120	A Tipi / A Type
1033-RERF760	700	600	750	725	90	150	115	118	7	57	120	A Tipi / A Type
1033-RERF880	800	800	850	825	90	150	115	158	8	57	120	B Tipi / B Type
1033-RERF990	900	900	950	925	90	150	115	188	9	57	120	B Tipi / B Type

• İş bittiğinde sağa veya sola katlanabilir.

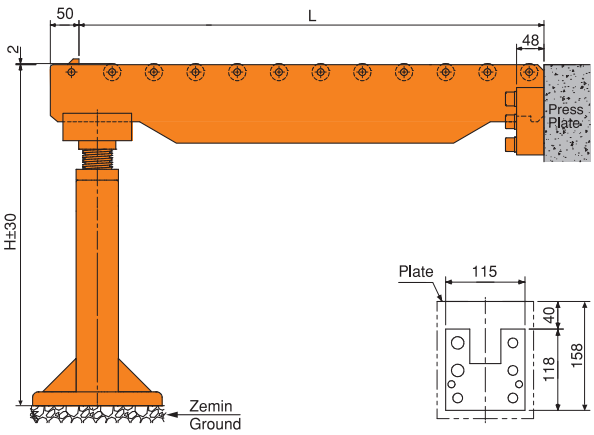
Sipariş Kodu	İhtiyaç Duyulan Kalıp uzunluğu (mm)	Max. Kapasite (kgf)	Top. Uzunluk (mm)	Kurulum İçin Gerekli Minimum Mesafe (mm)	Katlı Haliyle Ölçüler		Destek Ölçüleri		Silindir Sayısı	M	N	Kurulum İçin Delik Şekilleri
					X	Y	B	H				
1035-RERF05160	500	1600	550	525	105	170	130	158	7	74	140	C Tipi / C Type
1035-RERF05200	500	2000	550	525	105	170	130	178	7	74	140	C Tipi / C Type
1035-RERF07160	700	1600	750	725	105	170	130	158	9	74	140	C Tipi / C Type
1035-RERF07200	700	2000	750	725	105	170	130	178	9	74	140	C Tipi / C Type
1035-RERF08160	800	1600	850	825	105	170	130	178	10	74	140	C Tipi / C Type
1035-RERF08200	800	2000	850	825	105	170	130	188	10	74	140	C Tipi / C Type
1035-RERF09160	900	1600	950	925	105	170	130	218	11	74	140	C Tipi / C Type
1035-RERF09200	900	2000	950	925	105	170	130	248	11	74	140	C Tipi / C Type

• İş bittiğinde sağa veya sola katlanabilir.
• RE ve RF Modellerinin kurulduğu mesafe (C) mesafesinden daha büyük olmalıdır.



1037 -RS Kalıp Kaldırma Kolu Model RS (Ağır Yük)



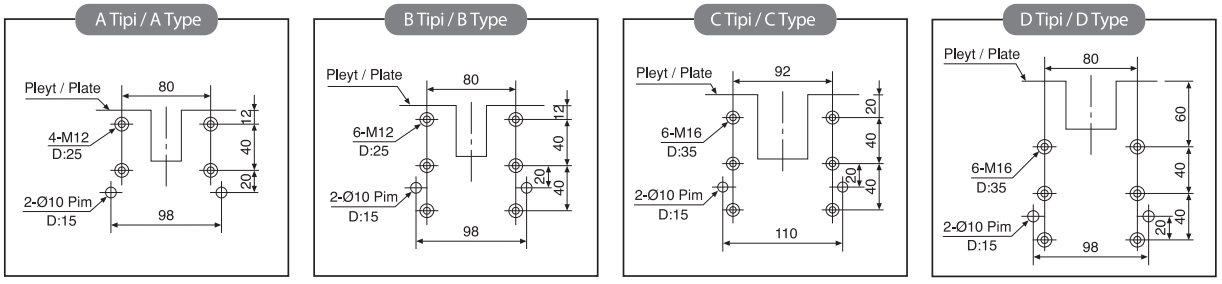


Model Seçimi / Model Selection

RS – Ⓛ – Ⓗ – Ⓦ

- Ⓛ: Kullanım uzunluğu
- Ⓗ: Pres Pleyti ile zemin arasındaki yükseklik
- Ⓦ: Kalıp ağırlığı

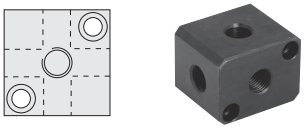
DELİK DELME ŞABLONLARI



- Sipariş verirken yukarıdaki bilgileri bildirmeniz gerekmektedir.
- Delik işleminde (D) tipi destek ölçülerini kullanın.

Aksesuarlar

Bağlayıcı Tüp
1036



Döner Eklem
1037



Pabuç Askısı
CA



Pabuç Askısı
CB



Fır Döndü
1038-FD



Hidrolik Pabuç Model CG
1015

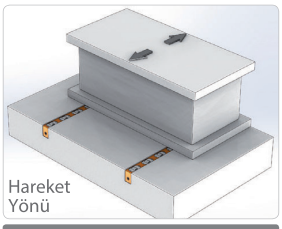


Pompa Kabini
1036-PK

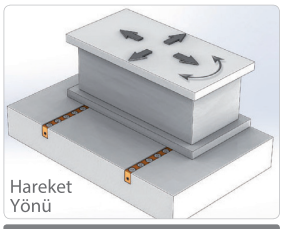


DL36 DB36 Kalıp Kaldırma Yayı Hidrolik

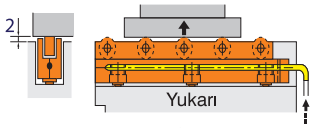




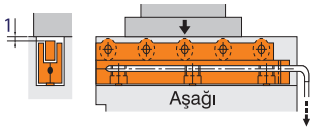
DL36 (Rulolu)



DL36 (Bilyalı)

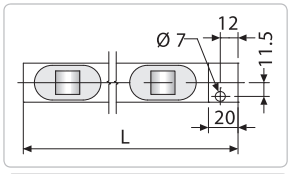


Toplam Strok =3mm



Standart Sıcaklık 60°
Opsiyonel Sıcaklık 160°

Sipariş Örneği Kod / Tip



DL36 - DB36 Dış Ölçüleri

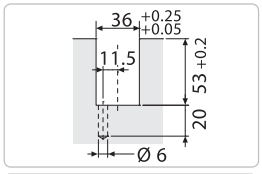
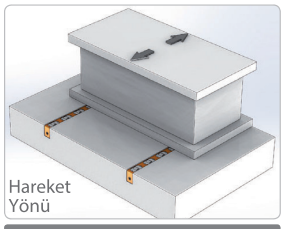


Tabla Kurulum Metodu(u-kanal)

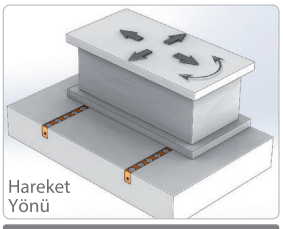
Tip	L (mm)	DL36		DB36		Hidrolik Silindir	
		Rulo	Kapasite	Bilya	Kapasite	Piston	Kapasite
1020 -0200	200	3 Adet	1050 kg	5 Adet	600 kg	2 Adet	1700 kg
1020 -0300	300	5	1750 kg	7	840 kg		
1020 -0400	400	6	1700 kg	10	1200 kg		
1020 -0500	500	8	2600 kg	12	1440 kg	3	2600 kg
1020 -0600	600	9		15	1800 kg		
1020 -0700	700	11		17	2040 kg		
1020 -0800	800	12		20	2400 kg		
1020 -0900	900	14	3500 kg	22	2640 kg	4	3500 kg
1020 -0100	100	15		25	3000 kg		
1020 -1100	1100	16		27	3240 kg		
1020 -1200	1200	17	4400 kg	30	3600 kg	5	4400 kg
1020 -1300	1300	18		32	3840 kg		
1020 -1400	1400	19		35	4200 kg		
1020 -1500	1500	20		37	4400 kg		
1020 -1600	1600	22	5300 kg	40	4800 kg	6	5300 kg
1020 -1700	1700	24		42	5040 kg		
1020 -1800	1800	25		45	5300 kg		
1020 -1900	1900	27		47			

DLS36 DBS36 Kalıp Kaldırma Yayı

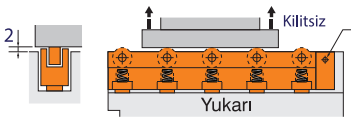




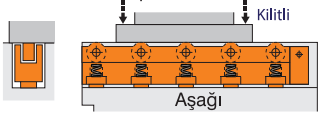
DLS36 (Rulolu)



DLS36 (Bilyalı)

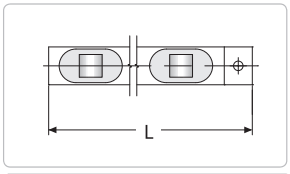


Toplam Strok =3mm



Standart Sıcaklık 60°
Opsiyonel Sıcaklık 160°

Sipariş Örneği Kod / Tip



DLS36 - DBS36 Dış Ölçüleri

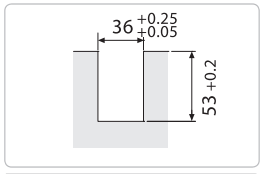
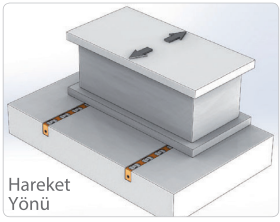


Tabla Kurulum Metodu(u-kanal)

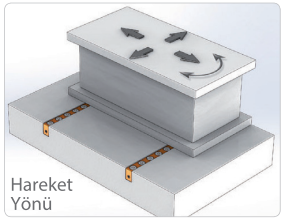
Tip	L (mm)	DLS36			DBS36		
		Rulo		Kapasite	Bilya		Kapasite
1022 -0200	200	3 Adet	3	600 kg	5 Adet	5	500 kg
1022 -0300	300	5	5	840 kg	7	7	700 kg
1022 -0400	400	6	6	1200 kg	10	10	1000 kg
1022 -0500	500	8	8	1600 kg	12	12	1200 kg
1022 -0600	600	9	9	1800 kg	15	15	1500 kg
1022 -0700	700	11	11	2200 kg	17	17	1700 kg
1022 -0800	800	12	12	2400 kg	20	20	2000 kg
1022 -0900	900	14	14	2800 kg	22	22	2200 kg
1022 -0100	100	15	15	3000 kg	25	25	2500 kg
1022 -1100	1100	16	16	3200 kg	27	27	2700 kg
1022 -1200	1200	17	17	3400 kg	30	30	3000 kg
1022 -1300	1300	18	18	3600 kg	32	32	3200 kg
1022 -1400	1400	19	19	3800 kg	35	35	3500 kg
1022 -1500	1500	20	20	4000 kg	37	37	3700 kg
1022 -1600	1600	22	22	4400 kg	40	40	4000 kg
1022 -1700	1700	24	24	4800 kg	42	42	4200 kg
1022 -1800	1800	25	25	5000 kg	45	45	4500 kg
1022 -1900	1900	27	27	5400 kg	47	47	4700 kg

DL50 DB50 Kalıp Kaldırma Yayı Hidrolik

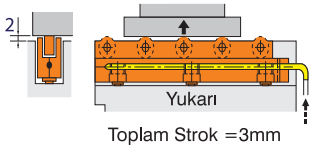




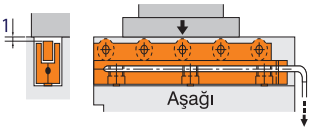
DL50 (Rulolu)



DB50 (Bilyalı)



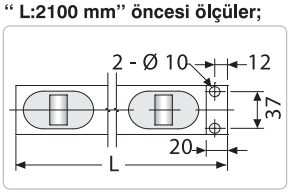
Toplam Strok =3mm



Standart Sıcaklık 60°
Opsiyonel Sıcaklık 160°

Sipariş Örneği	Kod / Tip

“ L:2100 mm” öncesi ölçüler;



DL50 - DB50 Dış Ölçüleri

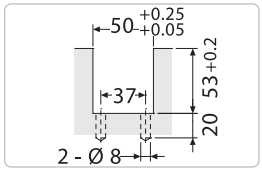
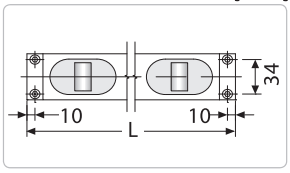


Tabla Kurulum Metodu(u-kanal)

“ L:2100 mm” ve sonrası için ölçüler;



DLS36 - DBS36 Dış Ölçüleri

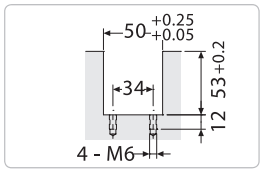
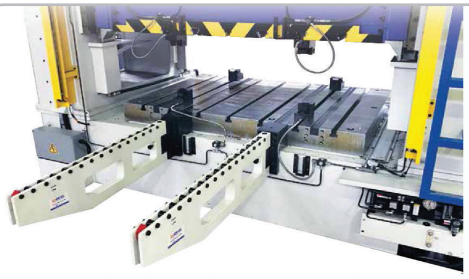


Tabla Kurulum Metodu(u-kanal)

Tip	L (mm)	DL50		DB50		Hidrolik Silindir	
		Rulo	Kapasite	Bilya	Kapasite	Piston	Kapasite
1020 -0200	200	2 Adet	1000 kg	4 Adet	600 kg	2 Adet	2200 kg
1020 -0300	300	3	1500 kg	6	960 kg		
1020 -0400	400	4	2000 kg	9	1440 kg		
1020 -0500	500	5	2500 kg	11	1760 kg	3	3300 kg
1020 -0600	600	6	3000 kg	13	2080 kg		
1020 -0700	700	7	3300 kg	16	2560 kg		
1020 -0800	800	8	3300 kg	18	2880 kg		
1020 -0900	900	9	4400 kg	20	3200 kg	4	4400 kg
1020 -0100	100	10		23	3680 kg		
1020 -1100	1100	11		25	4000 kg		
1020 -1200	1200	12	5500 kg	27	4320 kg	5	5500 kg
1020 -1300	1300	13		29	4640 kg		
1020 -1400	1400	14		31	4960 kg		
1020 -1500	1500	15		33	5280 kg		
1020 -1600	1600	16	6500 kg	35	5600 kg	6	6600 kg
1020 -1700	1700	17		38	6080 kg		
1020 -1800	1800	18		40	6400 kg		
1020 -1900	1900	19		42	6720 kg		
1020 -2000	2000	20	7700 kg	44	7040 kg	7	7700 kg
1020 -2100	2100	21		46	7360 kg		
1020 -2200	2200	22		48	7680 kg		
1020 -2300	2300	23		50	7700 kg		
1020 -2400	2400	24	8800 kg	52	8320 kg	8	8800 kg
1020 -2500	2500	25		54	8640 kg		







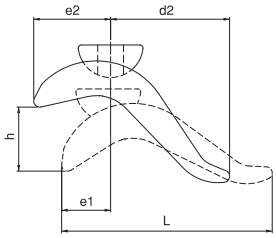
“Hızlı Kalıp Değiştirme Sistemleri - Teknik Destek Formunu” firmamızdan talep edebilir veya www.devpakalip.com sitemizden indirebilirsiniz.

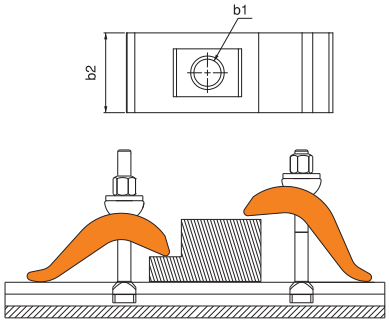
Doldurduğunuz formlar mühendislerimiz tarafından incelenip, işinize en uygun çözüm tespit edilecektir.

satis@devpakalip.com adresimizden iletişim kurabilirsiniz.

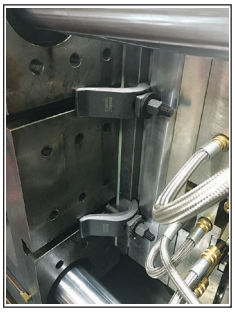
1200 S-Bağlama Pabucu







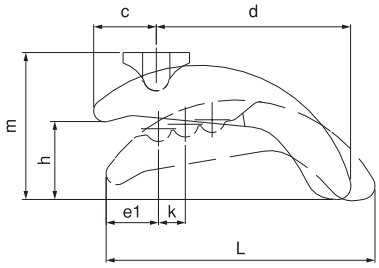
Sipariş Kodu	a	DIN787	b1	b2xL	d	e1	e2	h	(g)
1200-50140	-	-	17	50x140	60	30	55	75	900
1200-60175	-	-	21	60x175	80	40	70	85	1600
1200-12125	12	M12x12x125	17	50x140	60	30	55	0-50	1070
1200-14125	14	M12x14x125	17	50x140	60	30	55	0-55	1080
1200-16160	16	M16x16x160	17	50x140	60	30	55	0-75	1270
1200-18160	18	M16x18x160	17	50x140	60	30	55	0-75	1280
1200-20200	20	M20x20x200	21	60x175	80	40	70	0-85	2300
1200-22200	22	M20x22x200	21	60x175	80	40	70	0-85	2370

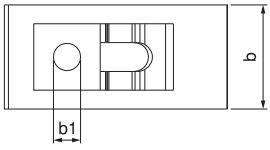


• Malzeme: Dövme Çelik • Sertleştirilmiş • Çinko Kaplama

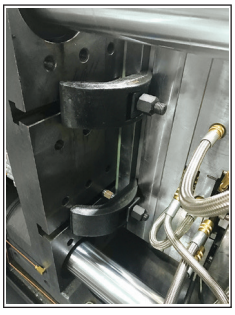
1205 Kademeli Bağlama Pabucu





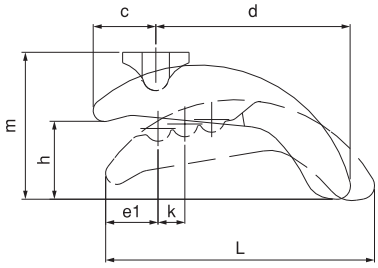


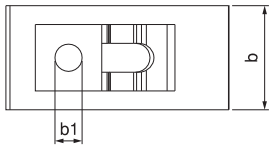
Sipariş Kodu	b1	a	DIN 787	m	h	b x L	c	d	e1	k x3	(kg)
1205-017	17	16-18	-	93	15-50	65x165	39	128	30	17	2.10
1205-021	21	20-22	-	111	20-65	75x189	43	146	33	19	3.20
1205-025	25	24-28	-	126	20-75	85x213	49	164	39	21	4.50
1205-031	31	36	-	143.5	20-85	95x238	56	182	46	23	6.30
1205-016	17	16	M16x16x125	93	15-50	65x165	39	128	30	17	2.50
1205-018	17	18	M16x18x125	93	15-50	65x165	39	128	30	17	2.50
1205-020	21	20	M20x20x160	111	20-65	75x189	43	146	33	19	3.90
1205-022	21	22	M20x22x160	111	20-65	75x189	43	146	33	19	3.90
1205-024	25	24	M24x24x200	126	20-75	85x213	49	164	39	21	5.70
1205-028	25	28	M24x28x200	126	20-75	85x213	49	164	39	21	5.70
1205-036	31	36	M30x36x250	143.5	20-85	95x238	56	182	46	23	8.80



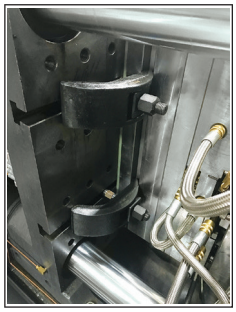
1210 Kademeli Bağlama Pabucu







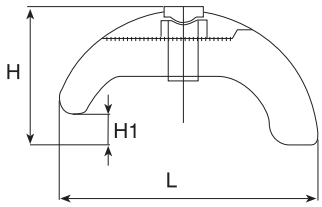
Sipariş Kodu	b1	a	DIN 787	m	h	b x L	c	d	e1	k x4	(kg)
1210-013	13	12-14	-	52	0-40	40x90	28	48	23	14	340
1210-017	18	16-18	-	80	0-60	58x130	38	74	29	18	990
1210-021	22	20-22	-	98	0-75	68x140	46	80	32	20	1450
1210-025	26	24-28	-	110	0-90	78x175	52	100	39	24	2360
1210-012	13	12	M12x12x100	52	0-40	40x90	28	48	23	14	400
1210-014	13	14	M12x14x100	52	0-40	40x90	28	48	23	14	420
1210-016	18	16	M16x16x160	80	0-60	58x130	38	74	29	18	1140
1210-018	18	18	M16x18x160	80	0-60	58x130	38	74	29	18	1145
1210-020	22	20	M20x20x200	98	0-75	68x140	46	80	32	20	1560

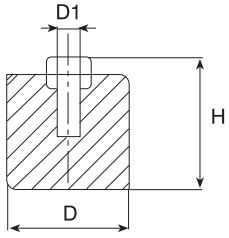


- Destek kullanmadan 15-85mm arası kullanım imkanı sağlar
- Malzeme: Dövme Çelik
- Sertleştirilmiş
- Çinko Kaplama

MBP Kalıp Bağlama Pabucu / Tayvan



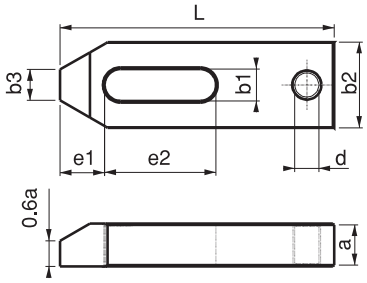




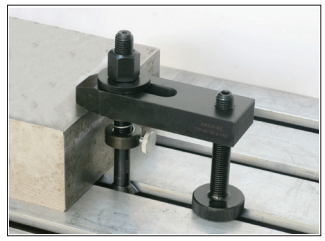
Sipariş Kodu	L	D	H	D1	H1
MBP/M16	140	62	86	16.8	60
MBP/M20	180	77	105	21	70

1330 Destekli Delikli Düz Pabuç





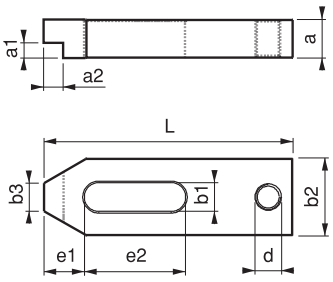
Sipariş Kodu	L	b1	metrik	whitworth	a	b2	b3	e1	e2	d	(g)
1330-06050	50	6,6	M6	1/4	10	20	8	10	20	M8	50
1330-08060	60	9	M8	5/16	12	25	10	13	22	M8	105
1330-10080	80	11	M10	3/8	15	30	12	15	30	M10	210
1330-12100	100	14.5	M12-M14	1/2	20	40	14	21	40	M12	465
1330-12125	125							21	50		590
1330-16125	125	18.5	M16-M18	5/8	25	50	18	26	45	M16	930
1330-16160	160								65		1200
1330-20160	160	22.5	M20-M22	3/4	30	60	22	30	60	M20	1710
1330-20200	200				30	60	22		80		2170
1330-20250	250				35	70	30		100		3885
1330-24160	160	26	M24	1	30	70	26	35	60	M24	1965
1330-24200	200				35	70	26		80		2920
1330-24250	250				35	70	26		100		3720
1330-24315	315				40	80	35		100		6435
1330-30250	250	33	M30	11/4	40	80	34	45	100	M24	4825
1330-30315	315				50				130		7665
1330-36400	400	43	M36-M42	11/2	58	100	43	100	150	M30	14490



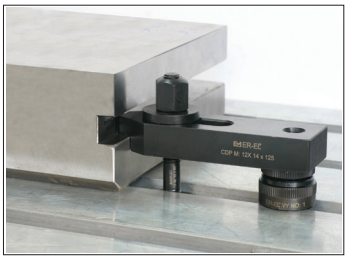
Sertleştirilmiş ,Siyah kaplama

1370 Kademeli Destek Delikli Düz Pabuç





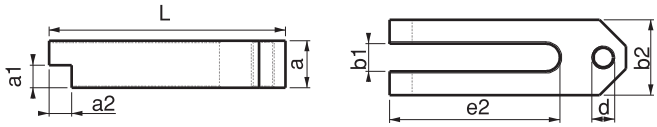
Sipariş Kodu	L	b1	metrik	whitworth	a	b2	a1xa2	b3	e1	e2	d	(g)
1370-10080	80	11	M10	3/8	15	30	5x8	12	15	30	M10	180
1370-12100	100	14.5	M12-14	1/2	20	40	8x10	14	21	40	M12	410
1370-12125	125									50		590
1370-16125	125	18.5	M16-18	5/8	25	50	10x12.5	18	26	45	M16	910
1370-16160	160									65		1180
1370-20160	160	22.5	M20-22	3/4	30	60	12x15	22	30	60	M20	1575
1370-20200	200									80		2150
1370-24160	160	26	M24	1	30	70	12x15	26	35	60	M24	1800
1370-24200	200				35		14x17			80		2875
1370-24250	250				35		14x17			100		3500



- Kısıtlı alanlarda yükseklikten kazanma amaçlı kullanılır.
- Sertleştirilmiş
- Siyah Kaplama

1400 Kademeli Destek Delikli Çatal Pabuç



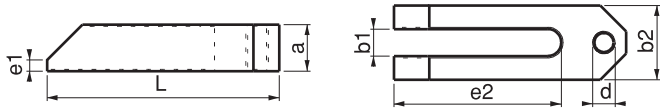


Sipariş Kodu	L	b1	metrik	whitworth	a	e2	a1xa2	b2	d	(g)
1400-10100	100	11	M10	3/8	18.5	70	10x10	28	M10	260
1400-12125	125	14.5	M12-14	1/2	25	90	12x12	40	M12	565
1400-16160	160	18.5	M16-18	5/8	30	110	15x15	50	M16	1235
1400-20200	200	22.5	M20-22	3/4	40	135	20x20	60	M20	2460

Sertleştirilmiş ,Siyah kaplama, kademeli ve kısıtlı alanlarda kullanım avantajı sağlar.

1410 Destek Delikli Çatal Pabuç

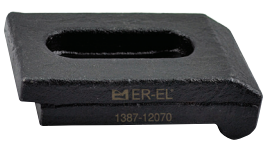


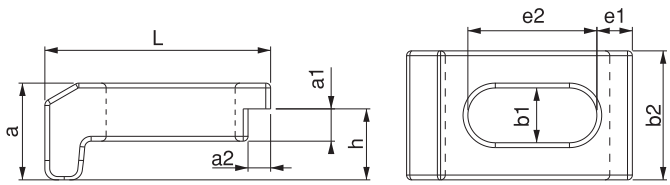


Sipariş Kodu	L	b1	metrik	whitworth	a	e1	e2	b2	d	(g)
1410-10100	100	11	M10	3/8	18.5	5	70	28	M10	260
1410-12125	125	14.5	M12-14	1/2	25	6	90	40	M12	560
1410-16160	160	18.5	M16-18	5/8	30	8	110	50	M16	1230
1410-20200	200	22.5	M20-22	3/4	40	10	135	60	M20	1490

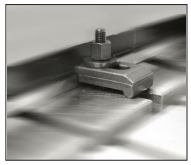
Sertleştirilmiş ,Siyah kaplama, kademeli parçalarda ile sıkma hareket ve kullanım avantajı sağlar.

1387 Plaka Bağlama Pabucu





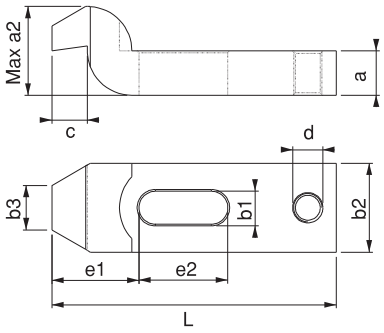
Sipariş Kodu	L	b1	metrik	whitworth	a	b2	a1xa2	e1	e2	h	(g)
1387-12070	70	13	M12	1/2	21.5	40	8x6	11	40	14	255
1387-16070	70	17	M16	5/8	29.5	40	10x7	11	40	22	290



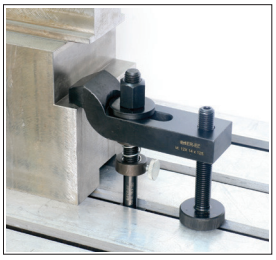
Sertleştirilmiş ,Siyah kaplama, Yükselcisiz çalışma özelliği avantajı sağlar.

1450 Destek Delikli Z-Bağlama Pabucu





Sipariş Kodu	L	b1	metrik	whitworth	a	a2	b2	b3	c	e1	e2	d	(g)
1450-06060	60	6.6	M6	1/4	10	20	20	10	8	20	20	M8	80
1450-08080	80	9	M8	5/16	12	24	25	12	9	25	25	M8	170
1450-10100	100	11	M10	3/8	15	30	30	15	12	32	32	M10	245
1450-12125	125	14.5	M12-M14	1/2	19	40	38	20	16	40	40	M12	600
1450-16125	125	18.5	M16-M18	5/8	24	50	48	25	20	49	40	M16	925
1450-16160	160										50		1205
1450-20160	160	22.5	M20-M22	3/4	29	58	58	30	24	55	55	M20	1705
1450-20200	200										70		2145
1450-24160	160	26	M24	1	33	70	70	35	28	53	55	M24	2110
1450-24200	200									72	60		3070
1450-24250	250									72	80		3710
1450-30250	250	33	M30	11/4	38	80	77	40	40	91	80	M24	4635
1450-30315	315				48	100					100		7050

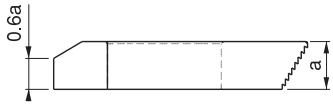


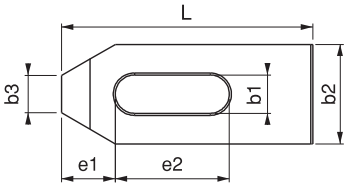
Ürün Nr. 1450 Destek Delikli Z-Bağlama Pabucu DIN 6316

Sertleştirilmiş ,Siyah kaplama, Yükselikten kazanma ve somun geçişlerinde avantaj sağlar.

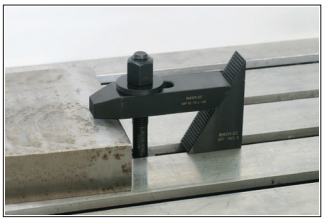
1290 Merdivenli Di Bağlama Pabucu







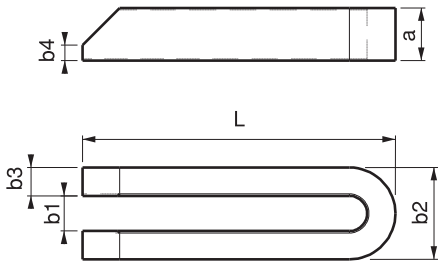
Sipariş Kodu	L	b1	metrik	whitworth	a	b2	b3	e1	e2	(g)
1290-06050	50	6.6	M6	1/4	10	20	8	10	20	50
1290-06080	80								30	95
1290-08060	60	9	M8	5/16	12	25	10	13	22	100
1290-08100	100								45	170
1290-10080	80	11	M10	3/8	15	30	12	15	30	190
1290-10100	100								45	225
1290-12100	100	14.5	M12-M14	1/2	20	40	14	21	45	435
1290-12125	125								55	580
1290-16125	125	18.5	M16-M18	5/8	25	50	18	26	55	855
1290-16160	160								65	1175



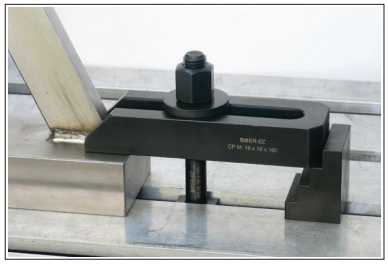
Merdiven destek ile kullanılır Sertleştirilmiş , Siyah kaplama

1390 Çatal Pabuç





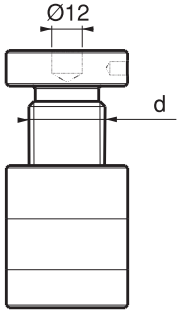
Sipariş Kodu	L	b1	metrik	whitworth	a	b2	b3	b4	(g)
1390-06060	60	6.6	M6	1/4	12	19	6.2	3	65
1390-08080	80	9	M8	5/16	15	25	8	4	140
1390-10100	100	11	M10	3/8	20	30	9.5	5	240
1390-12125	125								700
1390-12160	160	14.5	M12-M14	1/2	25	38	12	6	915
1390-12200	200								1235
1390-16160	160				27			8	945
1390-16200	200	18.5	M16-M18	5/8	27	48	15	8	1215
1390-16250	250				37			10	2000
1390-20200	200				37	52	15		1650
1390-20250	250	22.5	M20-M22	3/4	37	62	20	10	2765
1390-20315	315				37	62	20		3510
1390-20500	500				47	62	20		7200
1390-24200	200				37				2260
1390-24250	250	26	M24	1	37	66	20	10	2740
1390-24315	315				37				3515
1390-24500	500				47				7100
1390-30250	250				47	73	20		3500
1390-30315	315				47	73	20		4190
1390-30400	400	33	M30	11/4	47	73	20	12	5735
1390-30600	600				46	73	20		8455
1390-301000	1000				57	93	30		28000
1390-36400	400	40	M36	11/2	57	100	30	12	10800
1390-36600	600								16500
1390-42600	600	43	M42	11/2	77	123	40	12	28800



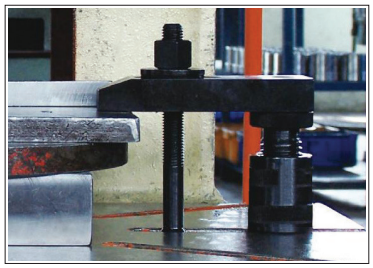
- Kademeli yüzeylerde şekilli iş parçalarının bağlanmasında pabucun yapısı itibarı ile kolaylık sağlar
- Sertleştirilmiş
- Siyah Kaplama

1510 Konumlama Pimi





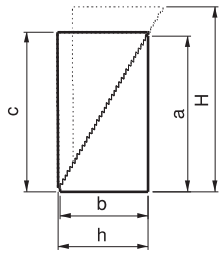
Sipariş Kodu	h	d			kgf	(g)
1510-023030	23-30	M16	34	32	1000	140
1510-040060	40-60	M16	34	32	1800	250
1510-042052	42-52	Tr 30x4	50	50	6000	570
1510-050070	50-70	Tr 30x4	50	50	6000	680
1510-070100	70-100	Tr 30x4	50	50	6000	960
1510-100140	100-140	Tr 30x4	50	50	6000	1395
1510-140220	140-220	Tr 30x4	54	54	6000	2285
1510-210330	210-330	Tr 30x6	58	58	8000	3950
1510-260430	260-430	Tr 30x6	68	68	8000	7250

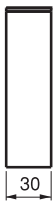


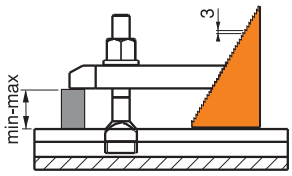
- Nr. 1510 yükselticiler DIN 6314-6315-6316 pabuçlarda yükseltici destek amaçlı kullanılır.
- Hareketli parça üstünde bulunan Ø12mm delik yükselticiler üst üste ve farklı amaçlı kullanılır
- Siyah Kaplama
- Destek Civatası : Sertleştirilmiş

1310 Merdivenli Di Destek







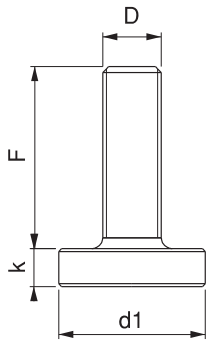


Sipariş Kodu	h-H	a	b	c	min-max	(g)
1310-01	37-85	57	35	60	0-40	505
1310-02	48-112	73	45	76	0-60	825
1310-03	58-139	90	55	93	0-75	1250
1310-04	66-165	108	64	111	0-90	685

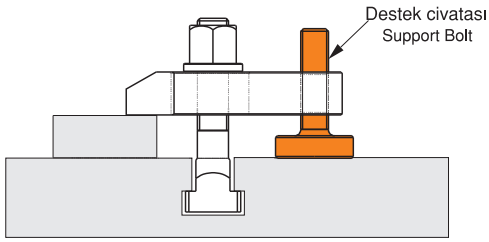
Merdiven diş pabuç ile kullanılır.
Siyah kaplama

1490 Konumlama Pimi





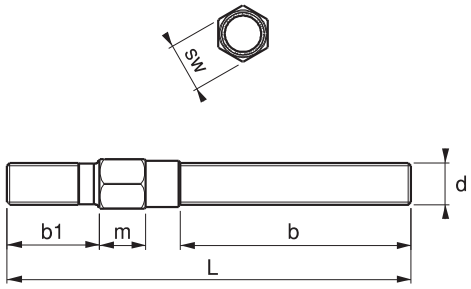
Sipariş Kodu	D x F	d1	k	(g)
1490-08032	M8x32	25	8	40
1490-10042	M10x42	30	8	60
1490-12050	M12x50	36	10	110
1490-12095	M12x95	36	10	150
1490-16062	M16x62	45	13	240
1490-16097	M16x97	45	13	285
1490-16117	M16x117	45	13	310
1490-20062	M20x62	50	13	320
1490-20097	M20x97	50	13	390
1490-20117	M20x117	50	13	430
1490-24081	M24x81	50	14	445
1490-24116	M24x116	50	14	555
1490-30180	M30x180	70	24	1650



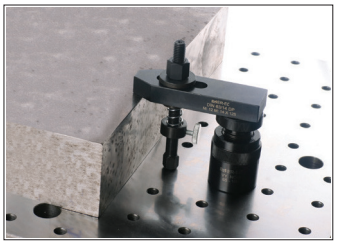
• Siyah Kaplama

1670 Anahtar Ağızlı Saplama





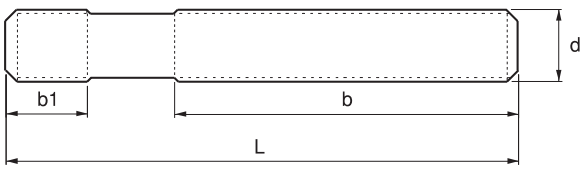
Sipariş Kodu	d	L	b	b1	m	sw	Sıkma Verileri Nm	Sıkma Verileri kN	(g)
1670-12130 1670-12160	M12	130 160	65 90	24	14	14	120	63	160 185
1670-14130 1670-14160	M14	130 160	65 90	28	15	15	191	86	216 246
1670-16140 1670-16160	M16	140 160	70 95	32	16	17	302	118	310 340
1670-18150 1670-18180	M18	150 180	70 95	35	19	19	405	144	395 450
1670-20150 1670-20180	M20	150 180	70 95	40	22	22	580	184	520 575
1670-22150 1670-22180	M22	150 180	70 95	40	22	24	772	228	610 705
1670-24170 1670-24205 1670-24250	M24	170 205 250	75 105 140	47	22	27	994	265	875 990 1125
1670-30250 1670-30315	M30	250 315	135 195	55	32	36	1930	421	1950 2260



- Kullanım alanı; Enjeksiyon makinalarında ve M12-14-16-18-20-22-24-30 diş açılmış pleytlerde kullanılır.
- Kalite 10.9
- Siyah kaplama

1690 Anahtar Ağızlı Saplama





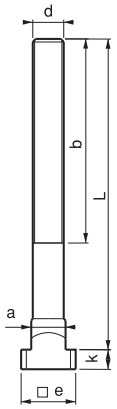
DIN 6379
- Kalite 10.9
- Siyah kaplama

Sipariş Kodu	d x L	b1	b	Sıkma Verileri Nm	Sıkma Verileri kN	(g)
1690-08040	x40		20			10
1690-08063	x63		40			15
1690-08080	x80		50			20
1690-08100	M8 x100	11	63	36	27	30
1690-08125	x125		75			35
1690-08160	x160		100			45
1690-10050	x50		25			20
1690-10063	x63		32			25
1690-10080	x80		50			35
1690-10100	M10 x100	13	63	67	43	45
1690-10125	x125		75			55
1690-10160	x160		100			70
1690-10200	x200		125			95
1690-12050	x50		25			35
1690-12063	x63		32			40
1690-12080	x80		50			55
1690-12100	M12 x100	15	63	120	63	70
1690-12125	x125		75			90
1690-12160	x160		100			115
1690-12200	x200		125			140
1690-14063	x63		32			60
1690-14080	x80		50			75
1690-14100	x100		63			95
1690-14125	M14 x125	17	75	191	86	120
1690-14160	x160		100			150
1690-14200	x200		125			195
1690-14250	x250		160			240
1690-16063	x63		32			85
1690-16080	x80		50			105
1690-16100	x100		63			130
1690-16125	x125		75			160
1690-16160	M16 x160	19	100	302	118	205
1690-16200	x200		125			260
1690-16250	x250		160			325
1690-16315	x315		180			405
1690-16500	x500		315			650
1690-18080	x80		50			130
1690-18100	x100		60			160
1690-18125	x125		75			200
1690-18160	M18 x160	23	100	405	144	260
1690-18200	x200		125			320
1690-18250	x250		150			400
1690-18315	x315		180			510

Sipariş Kodu	d x L	b1	b	Sıkma Verileri Nm	Sıkma Verileri kN	(g)
1690-20080	x80		32			155
1690-20100	x100		60			200
1690-20125	x125		70			250
1690-20160	x160		100			330
1690-20200	M20 x200	27	125	580	184	400
1690-20250	x250		160			510
1690-20315	x315		200			640
1690-20400	x400		250			815
1690-20500	x500		315			1020
1690-22100	x100		45			250
1690-22125	x125		70			305
1690-22160	x160		100			400
1690-22200	M22 x200	31	125	772	228	500
1690-22250	x250		160			620
1690-22315	x315		180			780
1690-22400	x400		250			1010
1690-24100	x100		45			290
1690-24125	x125		70			365
1690-24160	x160		100			470
1690-24200	x200		125			580
1690-24250	M24 x250	35	160	994	265	730
1690-24315	x315		200			920
1690-24400	x400		250			1170
1690-24500	x500		315			1470
1690-24630	x630		315			1860
1690-30125	x125		56			570
1690-30200	x200		125			910
1690-30250	x250		160			1150
1690-30315	M30 x315	43	200	1930	421	1435
1690-30500	x500		315			2315
1690-30700	x700		400			3215
1690-301000	x1000		400			4700
1690-36160	x160		80			1100
1690-36200	x200		125			1340
1690-36250	x250		160			1710
1690-36315	M36 x315	51	200	3378	614	2150
1690-36400	x400		250			2700
1690-36500	x500		315			3450
1690-36700	x700		400			4750
1690-42315	x315		200			2950
1690-42400	M42 x400	59	250	5415	843	3750
1690-42500	x500		315			4690

1590 T-Ayaklı Saplama





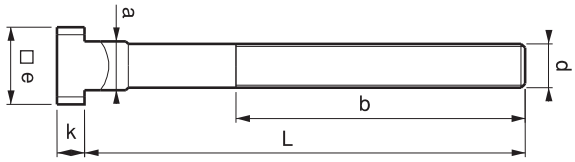
Sipariş Kodu	dx	a	x L	b	a	e	k	Sıkma Verileri Nm	Sıkma Verileri kN	(g)
1590-0606025	M6x6		x25	15	5.7	10	4	17	17	8
1590-0606040			x40	28						11
1590-0606063			x63	40						15
1590-0808032	M8x8		x32	22	7.7	12	6	43	32	13
1590-0808050			x50	35						16
1590-0808080			x80	50						20
1590-1010040	M10x10		x40	23	9.7	15	6	79	51	35
1590-1010063			x63	45						45
1590-1010080			x80	50						60
1590-1010100			x100	60						70
1590-1012050	M10x12		x50	35	11.7	18	7	79	51	50
1590-1012063			x63	40						60
1590-1012080			x80	55						65
1590-1012100			x100	60						75
1590-1012125			x125	75						90
1590-1012160			x160	90						105
1590-1012200			x200	120						120
1590-1212050	M12x12		x50	35	11.7	18	7	141	74	65
1590-1212063			x63	40						70
1590-1212080			x80	55						80
1590-1212100			x100	65						100
1590-1212125			x125	75						110
1590-1212160			x160	100						140
1590-1212200			x200	120						160
1590-1214050	M12x14		x50	35	13.7	22	8	141	74	80
1590-1214063			x63	45						90
1590-1214080			x80	55						100
1590-1214100			x100	65						110
1590-1214125			x125	75						135
1590-1214160			x160	100						160
1590-1214200			x200	120						180
1590-1416063	M14x16		x63	45	15.7	25	9	223	101	115
1590-1416080			x80	55						140
1590-1416100			x100	65						160
1590-1416125			x125	75						180
1590-1416160			x160	100						220
1590-1416200			x200	120						255
1590-1416250			x250	150						300
1590-1616063	M16x16		x63	45	15.7	25	9	354	138	140
1590-1616080			x80	55						160
1590-1616100			x100	65						190
1590-1616125			x125	85						225
1590-1616160			x160	100						270
1590-1616200			x200	120						315
1590-1616250			x250	150						380

Sipariş Kodu	dx	a	x L	b	a	e	k	Sıkma Verileri Nm	Sıkma Verileri kN	(g)
1590-1618063	M16x18		x63	45	17.7	28	10	354	138	170
1590-1618080			x80	55						185
1590-1618100			x100	65						220
1590-1618125			x125	85						245
1590-1618160			x160	100						295
1590-1618200			x200	120						340
1590-1618250			x250	150						405
1590-1820080	M18x20		x80	55	19.7	32	12	474	169	260
1590-1820100			x100	65						290
1590-1820125			x125	85						340
1590-1820160			x160	110						390
1590-1820200			x200	125						455
1590-1820250			x250	150						535
1590-1820315			x315	190						650
1590-2020080	M20x20		x80	55	19.7	32	12	679	215	300
1590-2020100			x100	65						330
1590-2020125			x125	85						380
1590-2020160			x160	110						450
1590-2020200			x200	125						535
1590-2020250			x250	160						635
1590-2020315			x315	190						760
1590-2022080	M20x22		x80	55	21.7	35	14	679	215	345
1590-2022100			x100	65						380
1590-2022125			x125	85						435
1590-2022160			x160	110						500
1590-2022200			x200	125						590
1590-2022250			x250	150						695
1590-2022315			x315	190						820
1590-2224080	M22x24		x80	55	23.7	40	16	903	266	465
1590-2224100			x100	65						515
1590-2224125			x125	85						580
1590-2224160			x160	110						660
1590-2224200			x200	125						775
1590-2224250			x250	150						805
1590-2224315			x315	190						1050
1590-2424100	M24x24		x100	70	23.7	40	16	1163	310	550
1590-2424125			x125	85						630
1590-2424160			x160	110						725
1590-2424200			x200	125						850
1590-2424250			x250	150						990
1590-2424315			x315	190						1180
1590-2424400			x400	240						1410
1590-2428100	M24x28		x100	70	27.7	44	18	1163	310	660
1590-2428125			x125	85						730
1590-2428160			x160	110						820
1590-2428200			x200	125						950
1590-2428250			x250	150						1090
1590-2428315			x315	190						1300
1590-2428400			x400	240						1530
1590-2428500			x500	290						1800
1590-3036125	M30x36		x125	80	35.6	54	22	2258	493	1280
1590-3036160			x160	110						1440
1590-3036200			x200	135						1620
1590-3036250			x250	150						1880
1590-3036315			x315	200						2150
1590-3036500			x500	300						3010
1590-3642160	M36x42		x160	100	41.6	65	26	3953	719	2260
1590-3642250			x250	175						2890
1590-3642400			x400	250						4010
1590-3642600			x600	340						5900
1590-4248160	M42x48		x160	100	47.6	75	30	6337	986	3550
1590-4248250			x250	175						4530
1590-4248400			x400	250						6160

DIN 787 • Kalite 12.9 • Siyah kaplama

1610 Somun Pullu T-Ayaklı Saplama





DIN 787
- Kalite 12.9
- Siyah kaplama

Not: 150 °C üzerindeki ortamlarda sıkma işlemi yapılırken dişlerin üzerine Loctite 8150 kullanılır.



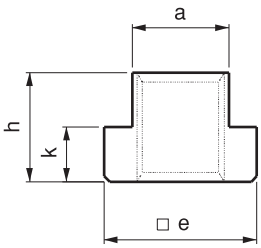
Loctite 8150

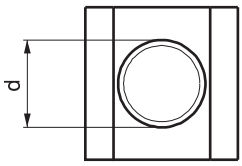
Sipariş Kodu	dx	x L	b	a	e	k	Sıkma Verileri Nm	Sıkma Verileri kN	(g)
1610-0606025	M6x6	x25	15	5.7	10	4	17	17	19
1610-0606040		x40	28						25
1610-0606063		x63	40						36
1610-0808032	M8x8	x32	22	7.7	12	6	43	32	39
1610-0808050		x50	35						45
1610-0808080		x80	50						56
1610-1010040	M10x10	x40	23	9.7	15	6	79	51	65
1610-1010063		x63	45						80
1610-1010080		x80	50						90
1610-1010100		x100	60						110
1610-1012050	M10x12	x50	35	11.7	18	7	79	51	85
1610-1012063		x63	40						95
1610-1012080		x80	55						100
1610-1012100		x100	60						110
1610-1012125		x125	75						125
1610-1012160		x160	90						140
1610-1012200		x200	120						160
1610-1212050	M12x12	x50	35	11.7	18	7	141	74	120
1610-1212063		x63	40						128
1610-1212080		x80	55						140
1610-1212100		x100	65						160
1610-1212125		x125	75						170
1610-1212160		x160	100						195
1610-1212200		x200	120						220
1610-1214050	M12x14	x50	35	13.7	22	8	141	74	140
1610-1214063		x63	45						150
1610-1214080		x80	55						155
1610-1214100		x100	65						175
1610-1214125		x125	75						195
1610-1214160		x160	100						220
1610-1214200		x200	120						240
1610-1416063	M14x16	x63	45	15.7	25	9	223	101	200
1610-1416080		x80	55						230
1610-1416100		x100	65						245
1610-1416125		x125	75						270
1610-1416160		x160	100						310
1610-1416200		x200	120						340
1610-1416250		x250	150						390
1610-1616063	M16x16	x63	45	15.7	25	9	354	138	260
1610-1616080		x80	55						285
1610-1616100		x100	65						310
1610-1616125		x125	85						345
1610-1616160		x160	100						385
1610-1616200		x200	120						435
1610-1616250		x250	150						505
1610-1618063	M16x18	x63	45	17.7	28	10	354	138	290
1610-1618080		x80	55						305
1610-1618100		x100	65						340
1610-1618125		x125	85						370
1610-1618160		x160	100						415
1610-1618200		x200	120						460
1610-1618250		x250	150						525

Sipariş Kodu	dx	x L	b	a	e	k	Sıkma Verileri Nm	Sıkma Verileri kN	(g)
1610-1820080	M18x20	x80	55	19.7	32	12	474	169	405
1610-1820100		x100	65						435
1610-1820125		x125	85						480
1610-1820160		x160	110						535
1610-1820200		x200	125						610
1610-1820250		x250	150						680
1610-1820315		x315	190						790
1610-2020080	M20x20	x80	55	19.7	32	12	679	215	480
1610-2020100		x100	65						515
1610-2020125		x125	85						570
1610-2020160		x160	110						635
1610-2020200		x200	125						725
1610-2020250		x250	160						820
1610-2020315		x315	190						950
1610-2022080	M20x22	x80	55	21.7	35	14	679	215	530
1610-2022100		x100	65						565
1610-2022125		x125	85						620
1610-2022160		x160	110						690
1610-2022200		x200	125						775
1610-2022250		x250	150						880
1610-2022315		x315	190						1050
1610-2224080	M22x24	x80	55	23.7	40	16	903	266	700
1610-2224100		x100	65						740
1610-2224125		x125	85						805
1610-2224160		x160	110						890
1610-2224200		x200	125						1000
1610-2224250		x250	150						1115
1610-2224315		x315	190						1280
1610-2424100	M24x24	x100	70	23.7	40	16	1163	310	885
1610-2424125		x125	85						970
1610-2424160		x160	110						1060
1610-2424200		x200	125						1180
1610-2424250		x250	150						1320
1610-2424315		x315	190						1515
1610-2424400		x400	240						1750
1610-2428100	M24x28	x100	70	27.7	44	18	1163	310	1000
1610-2428125		x125	85						1065
1610-2428160		x160	110						1150
1610-2428200		x200	125						1280
1610-2428250		x250	150						1425
1610-2428315		x315	190						1640
1610-2428400		x400	240						1870
1610-2428500		x500	290						2170
1610-3036125	M30x36	x125	80	35.6	54	22	2258	493	1900
1610-3036160		x160	110						2065
1610-3036200		x200	135						2250
1610-3036250		x250	150						2500
1610-3036315		x315	200						2770
1610-3036500		x500	300						3630
1610-3642160	M36x42	x160	100	41.6	65	26	3953	719	3310
1610-3642250		x250	175						3930
1610-3642400		x400	250						5010
1610-3642600		x600	340						6900
1610-4248160	M42x48	x160	100	47.6	75	30	6337	986	4600
1610-4248250		x250	175						5600
1610-4248400		x400	250						7200

1750 T-Pabuç





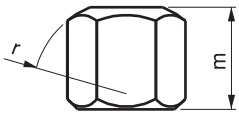


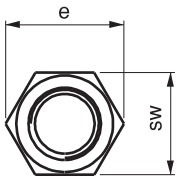
Sipariş Kodu	dx	a	e	h	k	(g)
1750-0506	M5x6	5.7	10	8	4	4
1750-0608	M6x8	7.7	13	10	6	10
1750-0810	M8x10	9.7	15	12	6	12
1750-0812 1750-1012	M8x12* M10x12	11.7	18	14	7	22 20
1750-0814 1750-1014 1750-1214	M8x14* M10x14* M12x14	13.7	22	16	8	40 37 30
1750-0816 1750-1016 1750-1216 1750-1416	M8x16* M10x16* M12x16* M14x16	15.7	25	18	9	60 55 55 45
1750-0818 1750-1018 1750-1218 1750-1418 1750-1618	M8x18* M10x18* M12x18* M14x18* M16x18	17.7	28	20	10	90 87 80 75 65
1750-1620 1750-1820	M16x20* M18x20	19.7	32	24	12	115 105
1750-1622 1750-1822 1750-2022	M16x22* M18x22* M20x22	21.7	35	28	14	170 160 150
1750-1624 1750-2024 1750-2224	M16x24* M20x24* M22x24	23.7	40	32	16	260 240 220
1750-1628 1750-2028 1750-2228 1750-2428	M16x28* M20x28* M22x28* M24x28	27.7	44	36	18	375 350 330 330
1750-2436 1750-3036	M24x36* M30x36	35.6	54	44	22	665 585
1750-3642	M36x42	41.6	65	52	26	1025
1750-4248	M42x48	47.6	75	60	30	1600

- T-Pabucun mukavemeti için dişli kısmının tümüne vidalama yapılması gerekir
- Sertleştirilmiş
- Siyah kaplama
- Kalite 10

1790 Takviyeli Somun





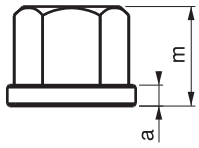


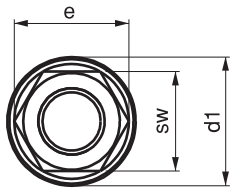
Sipariş Kodu		sw	e	m	r	(g)
1790-06	M6	10	11.5	9	9	5
1790-08	M8	13	15	12	12	9
1790-10	M10	17	19.6	15	15	20
1790-12	M12	19	21.9	18	17	25
1790-14	M14	22	25.4	21	20	40
1790-16	M16	24	27.7	24	22	55
1790-18	M18	27	31.2	27	24	80
1790-20	M20	30	34.6	30	27	110
1790-22	M22	32	36.9	33	30	130
1790-24	M24	36	41.5	36	32	190
1790-30	M30	46	53.1	45	41	400
1790-36	M36	55	63.5	54	50	680
1790-42	M42	65	75	63	58	1150

- Düz yüzey DIN 6340 pul ile kullanılır
- Radüslü yüzey DIN 6319D ve DIN 6319G pullar ile kullanılır
- Sertleştirilmiş
- Siyah kaplama
- Kalite 10

1810 Pullu Somun





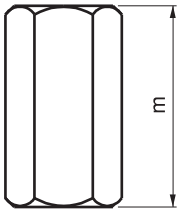


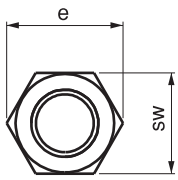
Sipariş Kodu		sw	e	m	a	d1	(g)
1810-08	M8	13	14.7	12	3.5	18	12
1810-10	M10	17	19.2	15	4	22	25
1810-12	M12	19	21.5	18	4	25	30
1810-14	M14	22	24.9	21	4.5	28	50
1810-16	M16	24	27.2	24	5	31	65
1810-18	M18	27	30.6	27	5	34	90
1810-20	M20	30	34	30	6	37	130
1810-22	M22	32	36.3	33	6	40	155
1810-24	M24	36	40.8	36	6	45	220
1810-30	M30	46	52.3	45	8	58	465
1810-36	M36	55	62	54	10	68	500
1810-42	M42	65	75	63	12	80	1340

- Sertleştirilmiş
- Siyah kaplama
- Kalite 10

1830 Uzatma Somun





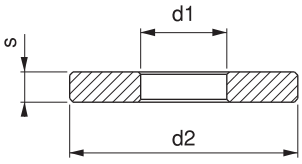


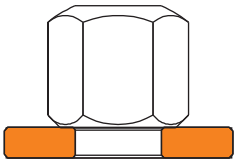
Sipariş Kodu		sw	e	m	(g)
1830-06	M6	10	11.7	18	8
1830-08	M8	13	15	24	19
1830-10	M10	17	19.6	30	40
1830-12	M12	19	21.6	36	55
1830-14	M14	22	25.4	42	90
1830-16	M16	24	27.7	48	115
1830-18	M18	27	31.2	54	165
1830-20	M20	30	34.6	60	230
1830-22	M22	32	36.9	66	245
1830-24	M24	36	41.5	72	400
1830-30	M30	46	53.1	90	840
1830-36	M36	55	63.5	108	1430
1830-42	M42	65	75	126	2330

- DIN 787 T-Ayaklı saplama ve DIN 6379 düz saplamalarda uzatma amaçlı kullanılır
- Sertleştirilmiş
- Siyah kaplama
- Kalite 10

1870 Pul





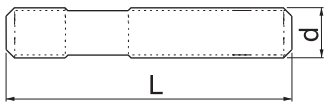


Sipariş Kodu	metrik	whitworth	d1	d2	s	(g)
1870-06	M6	1/4	6.4	17	3	6
1870-08	M8	5/16	8.4	23	4	10
1870-10	M10	3/8	10.5	28	4	16
1870-12	M12	1/2	13	35	5	30
1870-14	M14	-	15	40	5	40
1870-16	M16	5/8	17	45	6	60
1870-18	M18	-	19	45	6	60
1870-20	M20	3/4	21	50	6	70
1870-22	M22	7/8	23	50	8	90
1870-24	M24	7/8	25	60	8	140
1870-30	M30	11/8	31	68	10	215
1870-36	M36	11/4	38	80	12	360
1870-42	M42	11/2	44	98	15	640

- Sertleştirilmiş
- Siyah kaplama

1990 Vida Yükselticili Bağlama Set

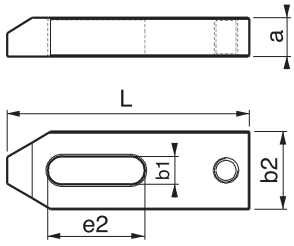


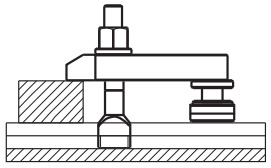


Sipariş Kodu	a		(kg)	d x L DIN 6379
1990-1012	M10x12	265x255	6.44	M10x80-100-160-200
1990-1214	M12x14	305x255	8.72	M12x80-100-160-200
1990-1416	M14x16	435-255	12.98	M14x80-100-160-200
1990-1618	M16x18	435-255	16.30	M16x80-100-160-200
1990-1820	M18x20	495x255	17.82	M18x80-100-160-200
1990-2022	M20x22	540x255	23.10	M20x100-125-160-200

• Tabla üzerine iş parçası ve aparatların hızlı ve güvenli bir şekilde bağlanması için çelik mamülden üretilmiş parçalardan oluşan bağlama seti

Sipariş Kodu	L	b1		a	e2	b2
1330	80	11	M10	15	30	30
1330 1330	100 125	14.5	M12-M14	20	40	40
1330 1330	125 160	18.5	M16-M18	25	45 65	50
1330 1330	160 200	22.5	M20-M22	30	60 80	60





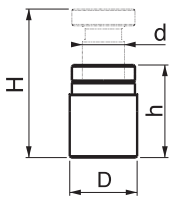
a	DIN 508	DIN 6330 B	1830	DIN 6331	DIN 6340
12	M10	M10	M10	M10	M10
14	M12	M12	M12	M12	M12
16	M14	M14	M14	M14	M14
18	M16	M16	M16	M16	M16
20	M18	M18	M18	M18	M18
22	M20	M20	M20	M20	M20



Nr. 1950 — a: 12-14, 16-18, 20-22

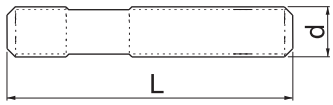
Sipariş Kodu	h	H	d	D
1510	23	30	M16	34
1510	40	60	M16	34
1510	70	100	Tr 30x4	50
1510	100	140	Tr 30x4	50

- 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 diş 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.



2010 Merdiven Yükselticili Bağlama Set

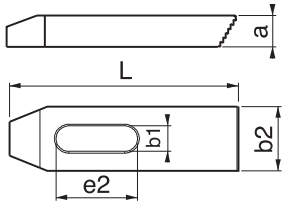


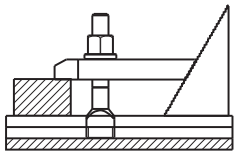


Sipariş Kodu	dx (a)		(kg)	d x L — DIN 6379
2010-1012	M10x12	330x255	7.27	M10x80-100-160-200
2010-1214	M12x14	380x255	9.26	M12x80-100-160-200
2010-1416	M14x16	435x255	12.29	M14x80-100-160-200
2010-1618	M16x18	435x255	15.62	M16x80-100-160-200
2010-1820	M18x20	495x255	18.00	M18x80-100-160-200

- Tabla üzerine iş parçası ve aparatların hızlı ve güvenli bir şekilde bağlanması için çelik mamülden üretilmiş parçalardan oluşan bağlama seti.

Sipariş Kodu	L	b1		a	e2	b2
1290	80 100	11	M10	15	30 45	30
1290	100 125	14.5	M12-M14	20	45 55	40
1290	125 160	185	M16-M18	25	65 65	50



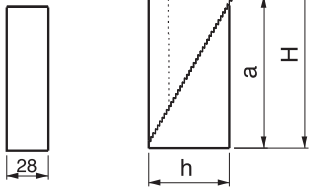


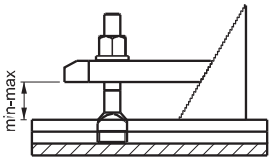
a	DIN 508	DIN 6330 B	1830	DIN 6331	DIN 6340
12	M10	M10	M10	M10	M10
14	M12	M12	M12	M12	M12
16	M14	M14	M14	M14	M14
18	M16	M16	M16	M16	M16
20	M18	M18	M18	M18	M18



Nr.	a
1950	12-14 16-18 20-22

Sipariş Kodu	h-H	a	min-max
1310	37-85	57	0-40
1310	48-112	73	0-60
1310	58-139	90	0-75
1310	66-165	108	0-90

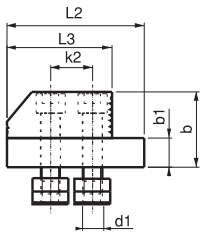


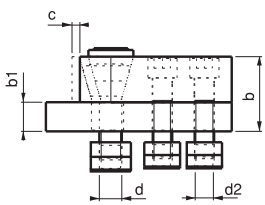


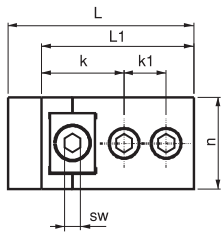
Ürün: 52 Parça Merdiven Destekli İş Bağlama Set
- 6 adet DIN 508 T-Pabuç
- 16 adet DIN 6379 saplama
- 6 adet DIN 6330B takviyeli somun
- 4 adet DIN 6331 pullu somun
- 2 adet 1830 uzatma somun
- 4 adet DIN 6340 kalın pul
- 4 adet Nr.1290 merdiven pabuç
- 8 adet Nr. 1310 merdiven diş destek
- 1 adet Nr. 1950 T-Kanal temizleyici
- 1 adet statik boyalı çelik set

2050 Dereceli Yandan Bağlama (Paralelli) Set







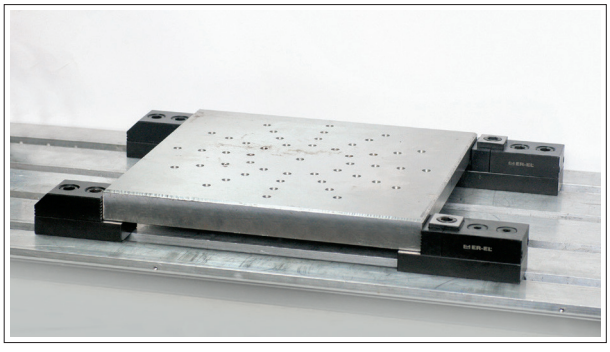


Sipariş Kodu	a	c	L	L1	L2	L3	b	b1 ±0.01	n	k	k1	k2	d	d1	d2	sw	sıkma kuvveti Kgf	Tork Değeri Screw (N-m)	(g)
2050-14	14	5	110	90	85	65	41	18	47	47	26	26	M12	M12	M12	6	1000	15	5920
2050-16	16																		6210
2050-18	18	5	115	95	85	65	46	18	57	52	26	26	M12	M12	M12	8	1250	20	8090
2050-20	20																		8440
2050-22	22																		8825
2050-24	24																		10080
2050-28	28																		10750

- İş parçasını dayama yönünde sıktığında parçanın özgün yapısını değişikliğe sebep vermez. Paralelli oluşundan dolayı işlenen parçaya delik işlemi uygulanabilir.
- Sertleştirilmiş
- Siyah kaplama
- Plastik kutuda set

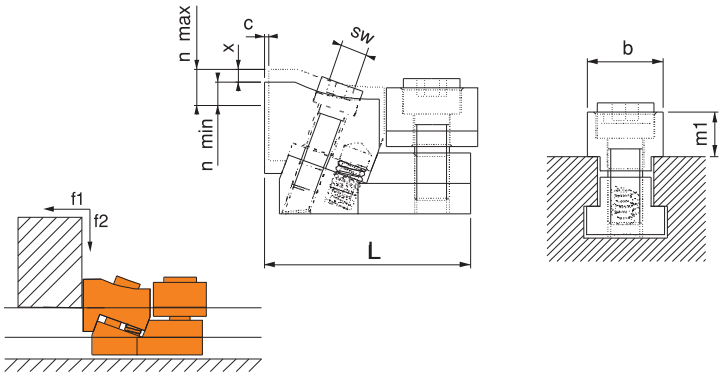
Set İçindekiler						
Parça						
Adet	2	2	10	10	2	1



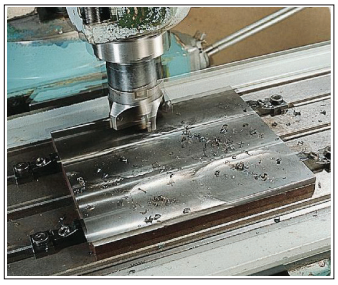


2170 Yandan Bağlama Pençe Pabuç



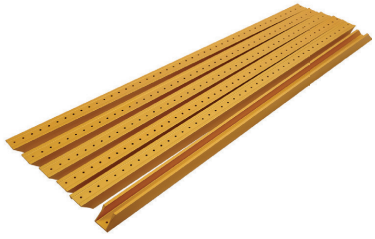


Sipariş Kodu	a	c	n min	n max	x	L	b	m1	sw	Sıkma Kuvveti f1 kgf	Sıkma Kuvveti f2 kgf	(g)
2170-12	12	2	2	6	4	46	21	10	5	500	60	120
2170-14	14	2.5	2.5	7.5	5	51	26	10	6	550	70	200
2170-16	16	3	2.5	8.5	6	61	27.5	12	6	800	90	290
2170-18	18	3	2	8	6	67	35	13	8	900	100	420
2170-20	20	4	2.5	11	8.5	78	38	13	10	1200	140	640
2170-22	22	4.5	2.5	12	9.5	87	39	16.5	10	1600	190	830

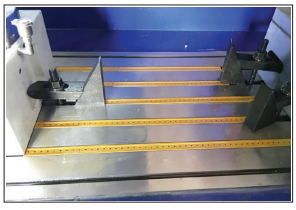


• İş parçasını dayama ve pleyt yönüne sıkar • T-Kanal içinde çalışması yükseklik avantajı sağlar
• DIN 650 T-Kanala uyumludur • Sertleştirilmiş • Siyah kaplama

1955 T-Kanal Koruyucu
Milling T-Slot Cover



Sipariş Kodu	Genişlik	Boy (mm)	Miktar
1955-T010	10	300	6
1955-T012	12	400	6
1955-T014	14	400	6
1955-T016	16	400	6
1955-T018	18	450	6
1955-T181	18	1000	5
1955-T205	20	500	10
1955-T020	20	1000	5
1955-T022	22	1000	5
1955-T024	24	1000	5
1955-T028	28	1000	5
1955-T036	36	1000	5



• T-Kanal aralarını gereksiz talaş dolmasını kirlenmesini önler.
T-Kanalınızı korur ve temizliğini kolaylaştırır.
• Malzeme: Alüminyum

1950 T-Kanal Temizleyici
T-Slot Scraper

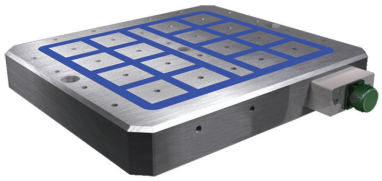


Sipariş Kodu	a	(g)
1950-1214	12-14	25
1950-1618	16-18	45
1950-2022	20-22	45
1950-2428	24-28	70

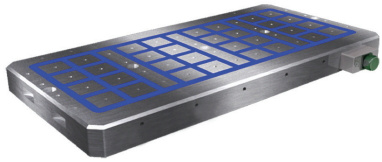
• T-Kanalları temizlemek için kullanılır



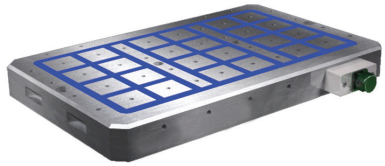
MQ9000 Elektromanyetik Tablalar



SQ MANYETİK TABLA
400 x 400



SQ MANYETİK TABLA
400 x 600



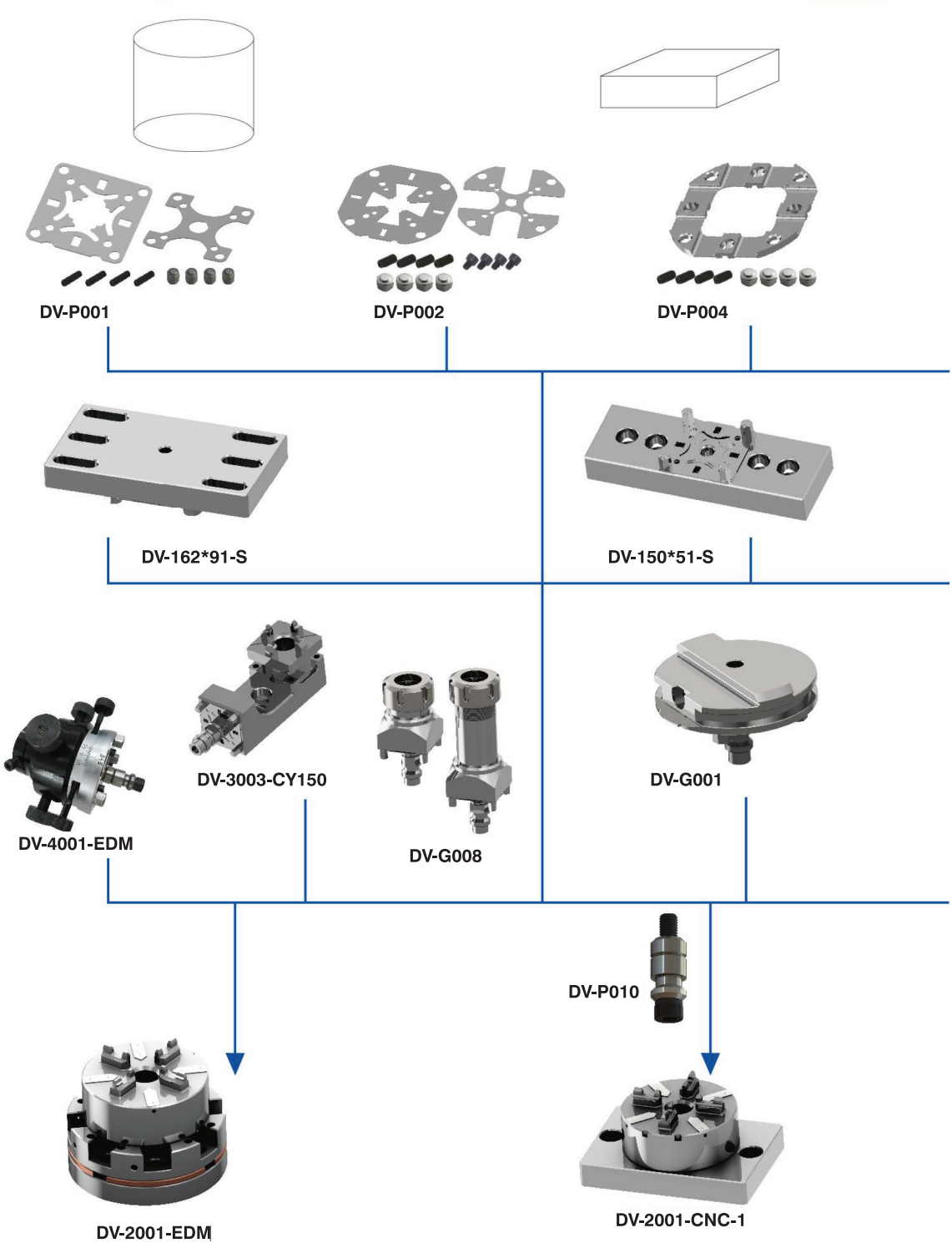
SQ MANYETİK TABLA
400 x 800

Sipariş Kodu	En (mm)	Boy (mm)	Kutuplar Arası Mesafe (mm)	Tutma Kuvveti	Kalınlık (mm)	Çalışma Voltajı	Toplam Tutma Kuvveti	Toplam Ağırlık
MQ9000-3742	370	420	55	550 kg-f/kutup	58	220 V.	9 Ton	55 Kg. (Ort.)
MQ9000-3759	370	590	55	550 kg-f/kutup	58	220 V.	14 Ton	75 Kg. (Ort.)
MQ9000-3780	370	800	55	550 kg-f/kutup	58	220 V.	18 Ton	110 Kg. (Ort.)
MQ9000-KU	Kontrol Ünitesi							

3R System EDM Bağlama Ekipmanları

moldart®

Proje talepleriniz ve detaylı ürün kataloğu için lütfen satis@devpakalip.com adresimiz ile iletişime geçiniz.



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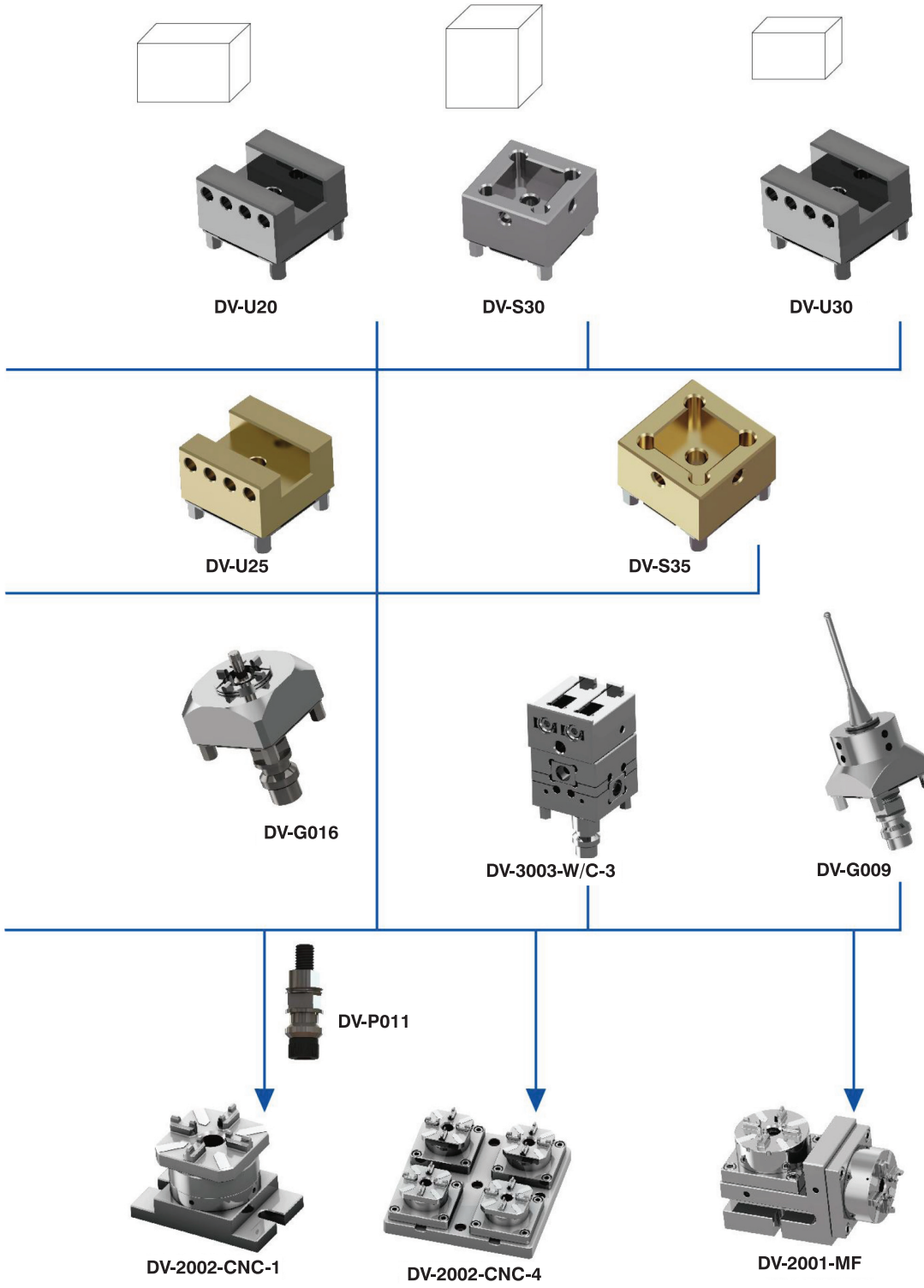
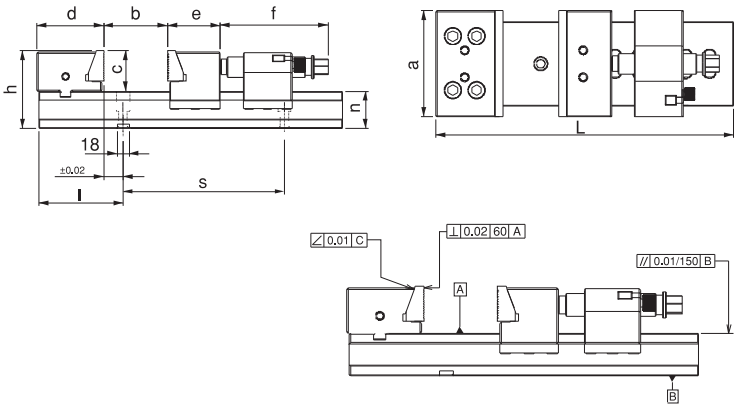

DV-U20
DV-S30
DV-U30
DV-U25
DV-S35
DV-G016
DV-3003-W/C-3
DV-G009
DV-P011
DV-2002-CNC-1
DV-2002-CNC-4
DV-2001-MF

Mengeneler

2330 Mekanik Çelik Mengene



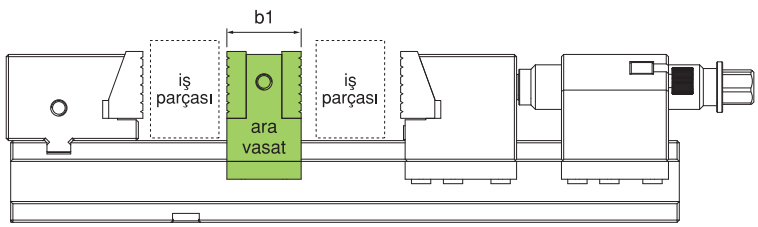


Sipariş Kodu	a	b	c	L	d	e	f	h	ı	n	s	sıkma kuvveti kgf	(kg)
2330-127160	127	0-160	60	422	99	78	160	115	125	55	200	3500	28
2330-157200	157	0-200	60	462	99	78	160	115	150	55	200	4500	46
2330-157300	157	0-300	60	562	99	78	160	115	150	55	250	4500	51
2330-197300	197	0-300	60	562	99	78	160	115	150	55	250	4500	66
2330-197400	197	0-400	60	662	99	78	160	115	150	55	350	4500	73
2330-197500	197	0-500	60	762	99	78	160	115	150	55	250/250	4500	80

- Mekanik çelik mengene sertleştirilmiş ve hassas taşlanmış olarak mükemmel kullanıma sahiptir. Kullanım özelliği işlenecek malzemeyi sabitlerken sabit ve hareketli çenelerde bulunan modüler çeneler yaylı sisteminden dolayı malzemeyi mengene tabanına doğru çeker ve güvenli çalışma sağlar. Kamalı sabitleme özelliğiyle hareketli çene mesafesi hızlı ayarlanabilir, kolay kullanılır.
- Kullanım alanı: CNC ve mekanik frezeler, taşlama ve matkap tezgahları, çeşitli sanayi makinaları
- Hareketli yüzeylerin tamamı hassas taşlanmış ve sertleştirilmiştir.

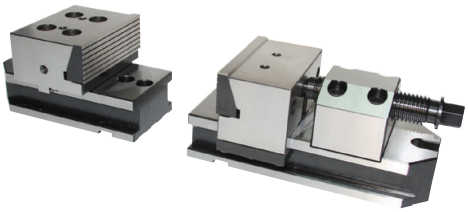
2330 2'li Bağlama için Ara Vasat

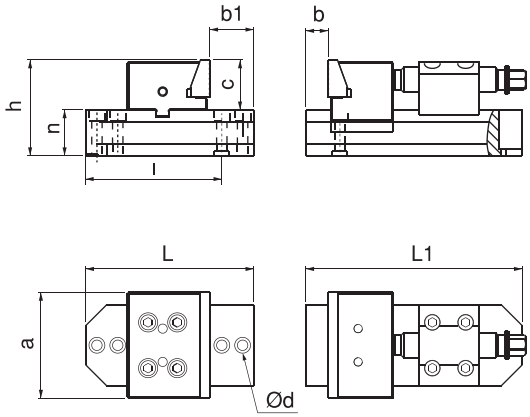




Sipariş Kodu	b1	(kg)
2330-127	50	3.1
2330-157	50	3.8
2330-197	50	4.7

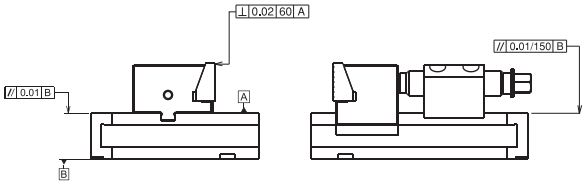
2345 Modüler Mekanik Çelik Mengene

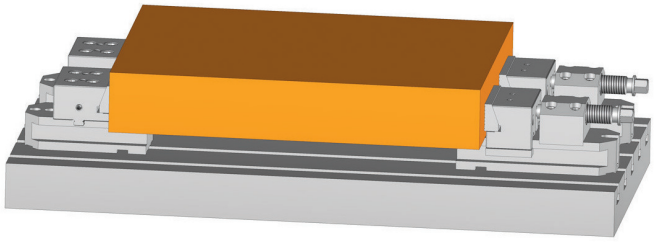




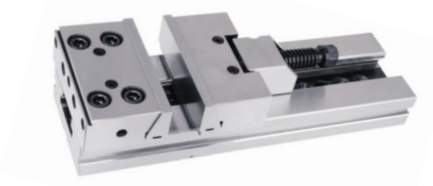
Sipariş Kodu	a	L	L1	b1	b	c	h	ı	n	Ød	sıkma kuvveti kgf	(kg)
2345-127	127	202	260	53	0-58	60	115	163.5	55	12.5	3500	28

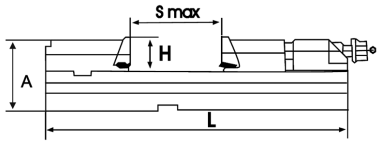
- Ürün çenelarinin hareketli oluşu iş parçasını karşıya ve aşağıya çekerek sıkar. Mengenenin iki parçalı ve paralel oluşu büyük iş parçalarını bağlamada delik diş vs. gibi işlemlerde kolaylık sağlar.
- Hareketli yüzeylerin tamamı hassas taşlanmış ve sertleştirilmiştir.

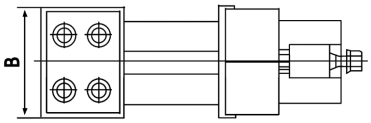




PRB97 Süper Hassas Tezgah Mengenesi



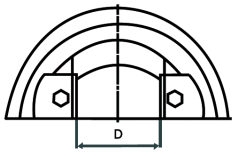


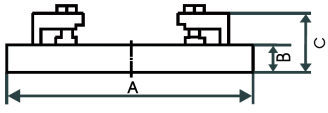


Sipariş Kodu	B (mm)	H (mm)	A (mm)	Smax, (mm)	L (mm)	Basma Kuvveti (kg)	Ağırlık (kg)
PRB97-125x150	125	40	85	150	345	3000	12.7
PRB97-150x200	150	50	105	200	420	5000	25.6
PRB97-150x300	150	50	105	300	520	5000	29.5
PRB97-175x200	175	60	120	200	455	6000	33.8
PRB97-175x300	175	60	120	300	555	6000	42.5
PRB97-200x300	200	65	135	300	595	10000	64
PRB97-200x400	200	65	135	400	695	10000	71
PRB97-200x500	200	65	135	500	795	10000	78
PRB97-200x600	200	65	135	600	895	10000	85
PRB97-300x400	300	80	160	400	735	12000	100
PRB97-300x500	300	80	160	500	835	12000	120

PRB97A Süper Hassas Tezgah Mengenesi için Döner Tabla







Sipariş Kodu	A (mm)	B (mm)	C (mm)	D (mm)
PRB97A-125	226	23	47	95
PRB97A-150	290	28	58	125
PRB97A-175	320	28	58	145
PRB97A-200	370	34	74	170
PRB97A-300	400	38	78	195

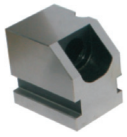
PRB97Y Süper Hassas Tezgah Mengenesi için Döner Tabla


Hareketli Çene Pleyti


Sabit Çene Pleyti


Hareketli Çene


Sabit Çene


Vida Bloğu

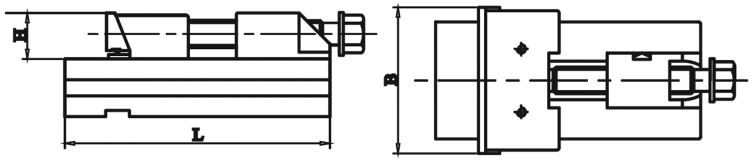

Mengene Vidası

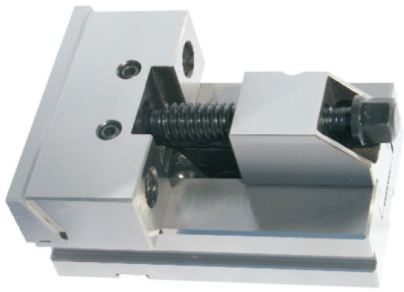

Kilitleme Vidası

Sipariş Kodu	Açıklama
PRB97Y-125B	125 mm Mengene Vida bloğu
PRB97Y-150B	150 mm Mengene Vida bloğu
PRB97Y-175B	175 mm Mengene Vida bloğu
PRB97Y-200B	200 mm Mengene Vida bloğu
PRB97Y-125HC	125 mm Mengene Hareketli Çene
PRB97Y-150HC	150 mm Mengene Hareketli Çene
PRB97Y-175HC	175 mm Mengene Hareketli Çene
PRB97Y-200HC	200 mm Mengene Hareketli Çene
PRB97Y-125HCP	125 mm Mengene Hareketli Çene Pleyt
PRB97Y-150HCP	150 mm Mengene Hareketli Çene Pleyt
PRB97Y-175HCP	175 mm Mengene Hareketli Çene Pleyt
PRB97Y-200HCP	200 mm Mengene Hareketli Çene Pleyt
PRB97Y-125KC	125 mm Mengene Kilitleme Cıvatası
PRB97Y-150KC	150 mm Mengene Kilitleme Cıvatasıı

Sipariş Kodu	Açıklama
PRB97Y-175KC	175 mm Mengene Kilitleme Cıvatası
PRB97Y-200KC	200 mm Mengene Kilitleme Cıvatası
PRB97Y-125SC	125 mm Mengene Sabit Çene
PRB97Y-150SC	150 mm Mengene Sabit Çene
PRB97Y-175SC	175 mm Mengene Sabit Çene
PRB97Y-200SC	200 mm Mengene Sabit Çene
PRB97Y-125SCP	125 mm Mengene Sabit Çene Pleyt
PRB97Y-150SCP	150 mm Mengene Sabit Çene Pleyt
PRB97Y-175SCP	175 mm Mengene Sabit Çene Pleyt
PRB97Y-200SCP	200 mm Mengene Sabit Çene Pleyt
PRB97Y-125V	125 mm Mengene Vidası
PRB97Y-150V	150 mm Mengene Vidası
PRB97Y-175V	175 mm Mengene Vidası
PRB97Y-200V	200 mm Mengene Vidası

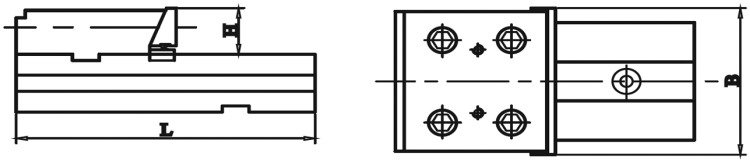
PRB97M1 Süper Hassas Tezgah Mengenesi Hareketli Çene Modülü No:1





Sipariş Kodu	B (mm)	H (mm)	L (mm)
PRB97M1-125	125	40	160
PRB97M1-150	150	50	230
PRB97M1-175	175	60	240
PRB97M1-200	200	65	300

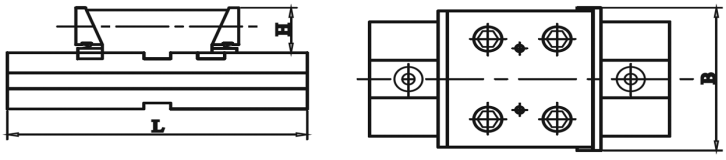
PRB97M2 Süper Hassas Tezgah Mengenesi Hareketli Çene Modülü No:2

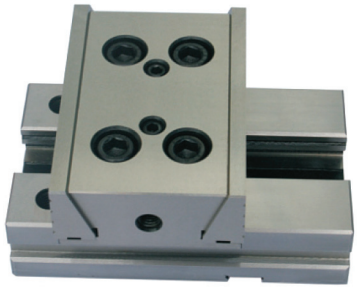




Sipariş Kodu	B (mm)	H (mm)	L (mm)
PRB97M2-125	125	40	160
PRB97M2-150	150	50	230
PRB97M2-175	175	60	240
PRB97M22-200	200	65	300

PRB97M3 Süper Hassas Tezgah Mengenesi Hareketli Çene Modülü No:3





Sipariş Kodu	B (mm)	H (mm)	L (mm)
PRB97M3-125	125	40	160
PRB97M3-150	150	50	230
PRB97M3-175	175	60	240
PRB97M3-200	200	65	300

C905-QGG Vidalı Hassas Mengene

Sipariş Kodu	B (mm)	H (mm)	Smax. (mm)	L (mm)	Ağırlık (kg)
C905-QGG050	50	25	65	155	3
C905-QGG073	73	35	100	210	5
C905-QGG100	100	45	125	260	13
C905-QGG125	125	50	160	300	19.5



C905-QGJ Açılı - Vidalı Hassas Mengene

Sipariş Kodu	B (mm)	H (mm)	H1 (mm)	Smax. (mm)	L (mm)	L1 (mm)	Çlş. Açısı
C905-QGJ050	50	25	87	60	140	100	0 - 45°
C905-QGJ073	73	35	111	90	190	100	0 - 45°
C905-QGJ100	100	45	139	125	245	100	0 - 45°
C905-QGJ125	125	50	154	160	285	200	0 - 45°



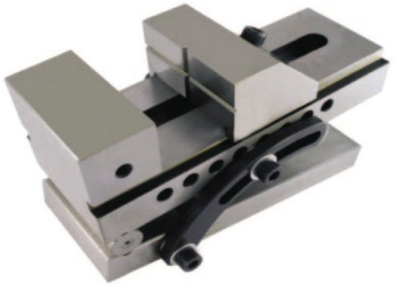
C905-QGK Pimli Hassas Mengene

Sipariş Kodu	B (mm)	H (mm)	Smax. (mm)	L (mm)	Ağırlık (kg)
C905-QGK050	50	25	60	140	3
C905-QGK073	73	35	90	190	4.10
C905-QGK100	100	45	125	245	10
C905-QGK125	125	50	160	285	18

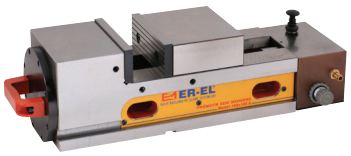


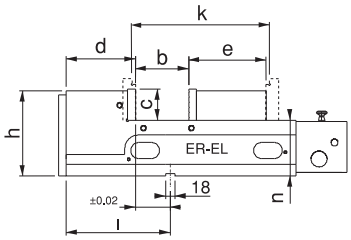
C905-QKJ Açılı - Pimli Hassas Mengene

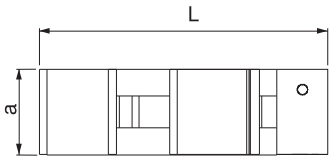
Sipariş Kodu	B (mm)	H (mm)	H1 (mm)	Smax. (mm)	L (mm)	L1 (mm)	Çlş. Açısı
C905-QKJ050	50	25	87	60	140	100	0 - 45°
C905-QKJ073	73	35	111	90	190	100	0 - 45°
C905-QKJ100	100	45	139	125	245	100	0 - 45°
C905-QKJ125	125	50	154	160	285	200	0 - 45°

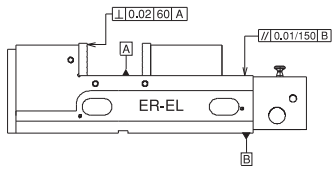


2350 Pnömatik Mengene







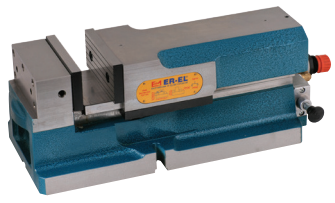


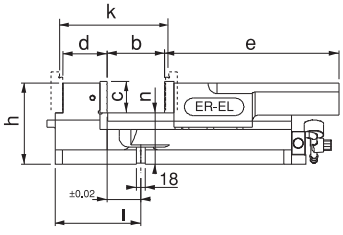
Sipariş Kodu	a	b	c	k	L	d	e	h	ı	n ±0.01	sıkma kuvveti kgf	haraket mesafesi	(kg)
2350-160E	160	160	58	310	530	130	145	160	190	105	2000	4	62

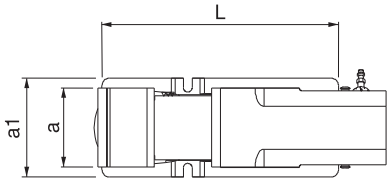
• "k" ölçüsüne yedek çenelerle ulaşılır. Yedek çeneler takıma dahil değildir.

- 6 Bar hava ile çalışır. Pnömatik yapısından dolayı sıkma-açma işlemlerinde hız kazandırır.
- 2000 kgf sıkma kuvvetiyle iş parçasını sabitler. İsteğe bağlı bar ayar butonuyla sıkma kuvveti ayarlanabilir.
- Kullanım alanı: CNC ve mekanik frezeler, matkap tezgahları, çeşitli sanayi makinaları.
- Hareketli yüzeylerin tamamı hassas taşlanmış ve sertleştirilmiştir.

2370 Pnömatik Mengene



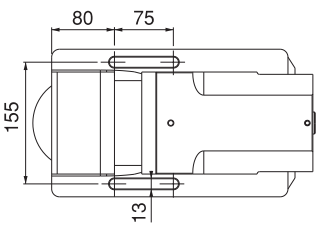


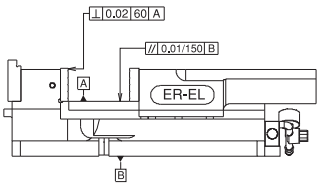


Sipariş Kodu	a	a1	b	c	k	L	d	e	h	ı	n ±0.01	sıkma kuvveti kgf	haraket mesafesi	(kg)
2370-051	130	188	60	58	135	327	64	209	160	-	105	1100	4	37
2370-052	130	185	140	63	225	400	69	300	160	173	105	2200	4	44
2370-053	160	201	200	63	300	485	93	353	166	170	105	3300	4	63
2370-054	200	240	250	63	360	530	93	410	166	185	105	4100	4	81

- 6 Bar hava ile çalışır. Pnömatik yapısından dolayı sıkma-açma işlemlerinde hız kazandırır.
- 1100 kgf ile 4100 kgf sıkma kuvvetiyle iş parçasını sabitler. İsteğe bağlı bar ayar butonuyla sıkma kuvveti ayarlanabilir.
- Kullanım alanı: CNC ve mekanik frezeler, matkap tezgahları, çeşitli sanayi makinaları.
- Hareketli yüzeylerin tamamı hassas taşlanmış ve sertleştirilmiştir.

2370-051 Detay

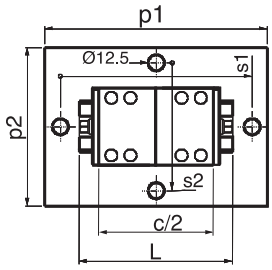


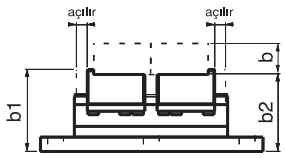


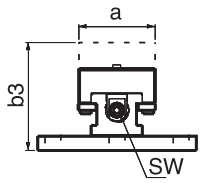
• "k" ölçüsüne yedek çenelerle ulaşılır.
Yedek çeneler takıma dahil değildir.

2310 Çift Açılır Mengene



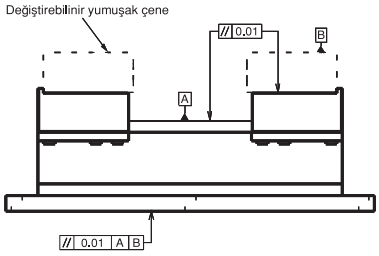


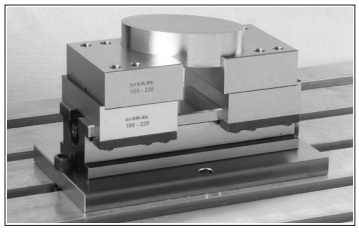


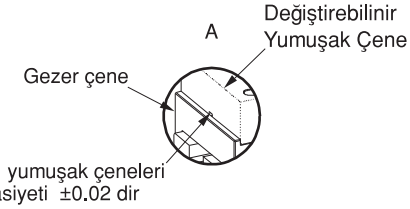


Sipariş Kodu	a	L	c/2	açılır opens 2 x mm	iş bağlama kapasitesi (mm)	b	b1	b2 ±0,02	b3	p1	p2	s1	s2	sıkma kuvveti kgf	sw	(kg)
2310-060	60	120	90	20	120	23.5	70.5	67.5	91	174	124	150	100	1000	9	7
2310-078	78	180	130	30	180	33	97	93	126	224	124	200	100	1600	12	14
2310-100	100	220	154	38	220	35	99	95	130	274	174	250	150	1600	12	22
2310-125	125	260	174	47	260	38	108	103	141	324	174	300	150	2200	14	35
2310-157	157	350	208	75	350	46	123	118	164	424	224	400	200	2200	17	65

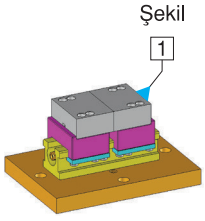
• Ürün işlem yapılacak malzemeyi sabitlerken aynı zamanda da merkezleme yapmaktadır.
Bu sistemin avantajı özellikle dış çap ölçüleri değişken malzemelerde merkez değişmeden işlem yapılabilir.
Diğer özelliği ise yumuşak çenelere işlenecek parçanın formu uygulanabilinir (1-2-3-4-5-6 şekillerde görüldüğü gibi.)
• Kullanım alanı: CNC ve mekanik frezeler, taşlama, matkap gibi çeşitli sanayi makinalarında kullanılır.
• Hareketli yüzeylerin tamamı hassas taşlanmış ve sertleştirilmiştir.
• Çeneleri ayrı olarak satın almanız gerekir.
• Siyah Kaplama

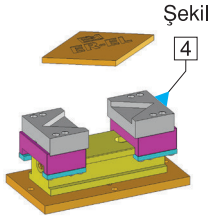


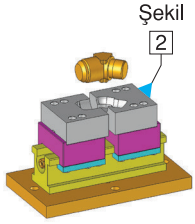


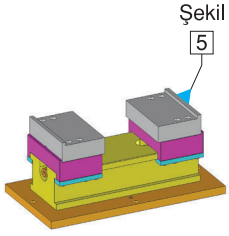


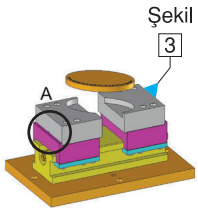
Gezer çene kaması yumuşak çeneleri söküp takma hassasiyeti ±0.02 dir

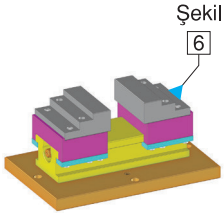




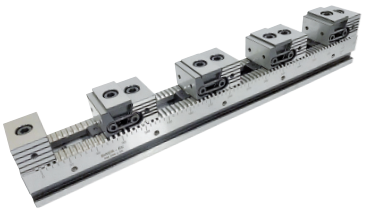


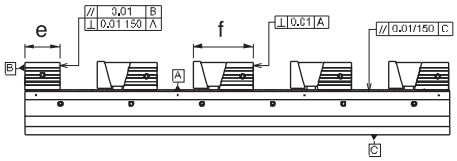


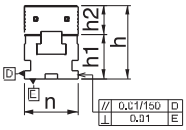


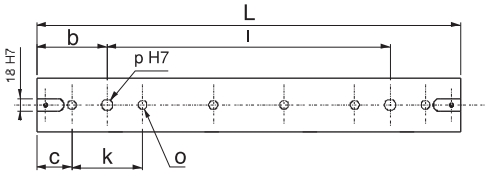


2430 Çok Çeneli Seri Mengene



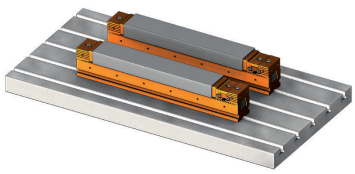


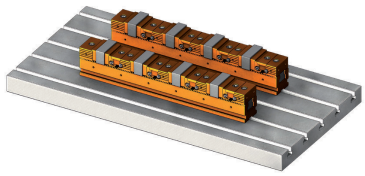




Sipariş Kodu	L	n	h1	h2	h	o	e	f	b	c	k	ı	p H7	Standart bağlama adedi	sıkma kuvveti kgf	(kg)
2430-055300	300	55	50	32	72	12.5	36	65	100	50	100	100	18	2	1750	9
2430-055500	500	55	50	32	72	12.5	36	65	100	50	100	300	18	4		15
2430-075400	400	75	65	37	102	12.5	48	77	100	50	100	200	18	2	2000	20
2430-075600	600	75	65	37	102	12.5	48	77	100	50	100	400	18	4		33
2430-100400	400	100	65	37	102	12.5	48	80	100	50	100	200	18	2	2500	27
2430-100600	600	100	65	37	102	12.5	48	80	100	50	100	400	18	3		41

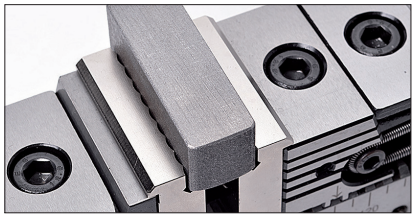
- Ürüne birden fazla iş bağlama imkanı sağlar. Çeneler modülerdir, istenen ölçüye ayarlanır.
- Gruplara bağlanan yumuşak ayaklara iş parçası formu uygulanabilir.
- Hassas taşlama
- Çeneleri ayrı olarak satın almanız gerekir.

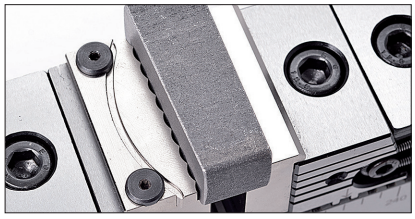


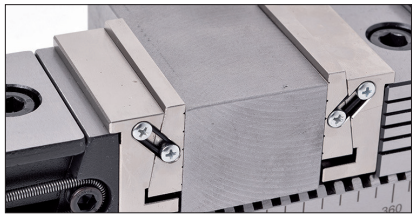


Sipariş Kodu	GEZER ÇENE İLE İŞ PARÇASI BAĞLAMA ADETLERİ				
	1 İş parçası	2 İş parçası	3 İş parçası	4 İş parçası	5 İş parçası
2430-055300	196mm	65mm	22mm	-	-
2430-055500	394mm	165mm	88mm	50mm	26mm
2430-075400	268mm	95mm	38mm	9mm	-
2430-075600	472mm	197mm	106mm	60mm	32mm
2430-100400	265mm	93mm	35mm	-	-
2430-100600	469mm	195mm	103mm	57mm	30mm

Not: İş bağlama adetleri ölçülerinde yumuşak ayak dahil değildir.

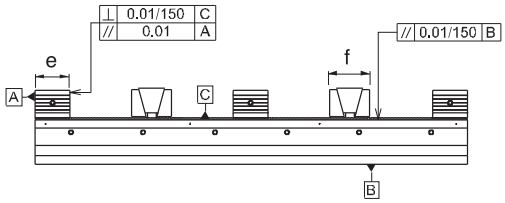


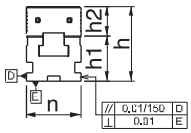


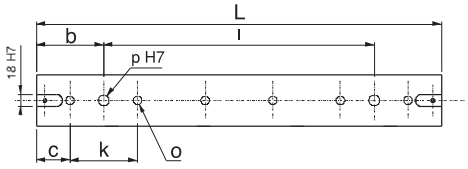


2435 Çok Çeneli Seri Mengene









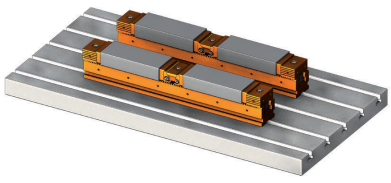
Sipariş Kodu	L	n	h1	h2	h	o	e	f	b	c	k	ı	p H7	sıkma kuvveti kgf
2435-055300	300	55	50	32	82	12.5	32	37	100	50	100	100	18	1750
2435-055500	500	55	50	32	82	12.5	32	37	100	50	100	300	18	
2435-075400	400	75	65	37	102	12.5	37	57	100	50	100	200	18	2000
2435-075600	600	75	65	37	102	12.5	37	57	100	50	100	400	18	
2435-100400	400	100	65	37	102	12.5	37	57	100	50	100	200	18	2500
2435-100600	600	100	65	37	102	12.5	37	57	100	50	100	400	18	

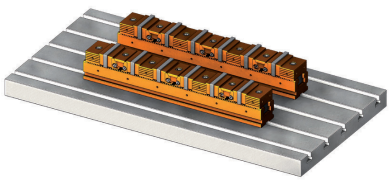
- Çift açılır.
- Çeneleri ayrı olarak satın almanız gerekir.

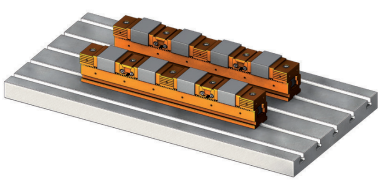
Sipariş Kodu	ÇİFT AÇILIR ÇENE İLE İŞ PARÇASI BAĞLAMA ADETLERİ		
	2 İş parçası 2 Workpiece	3 İş parçası 3 Workpiece	4 İş parçası 4 Workpiece
2435-055300	75mm	37mm	16mm
2435-055500	173mm	103mm	66mm
2435-075400	107mm	55mm	28mm
2435-075600	209mm	123mm	79mm
2435-100400	104mm	53mm	26mm
2435-100600	206mm	121mm	77mm

Sipariş Kodu	5 iş parçası 5 Workpiece	6 iş parçası 6 Workpiece	7 iş parçası 7 Workpiece	8 iş parçası 8 Workpiece
2435-055300	-	-	-	-
2435-055500	45mm	30mm	20mm	-
2435-075400	13mm	-	-	-
2435-075600	54mm	45mm	24mm	14mm
2435-100400	12mm	-	-	-
2435-100600	52mm	34mm	22mm	12mm

Not: İş bağlama adetleri ölçülerinde yumuşak ayak dahil değildir.







C964 CNC Freze Mengenesi

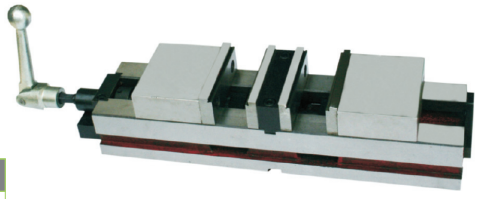
- CNC tezgahlarla taşlama ve ferezeleme işlemlerinde kullanılır
- Paralellik toleransı 0.025mm/100mm
- Açılı kilitleme sayesinde iş parçası sıkma esnasında yukarı kayma yapmaz



Sipariş Kodu	Çene Genişliği (mm)	Çene Yüksekliği (mm)	Max. Açılma (mm)	Ağırlık
C964-100	100	34	100	10 kg
C964-150	150	45	150	26 kg

C980 Çift Çeneli Menge

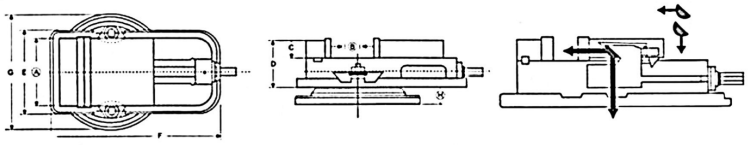
- Sfero döküm demirden üretilmiştir
- Çalışma yüzeyleri 50-60 HRC sertleştirilmiştir
- Paralellik toleransı 0.025mm/100mm
- Açılı kilitleme sayesinde iş parçası sıkma esnasında yukarı kayma yapmaz
- İki iş parçası aynı anda sıkılabilir

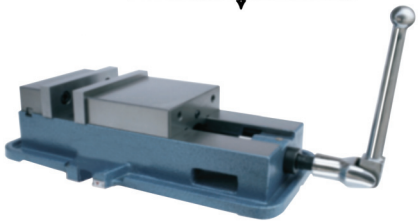


Sipariş Kodu	Çene Genişliği (mm)	Çene Yüksekliği (mm)	Max. Açılma (mm)	Ağırlık
C980-100	100	35	76	22 kg
C980-160	160	50	100	43 kg

C965 Hassas Freze Mengenesi (Super Open)

- C965-160 alt tablasız olarak teslim edilir
- C965-160A alt tablalı olarak teslim edilir
- C965-200 alt tablalı olarak teslim edilir





Sipariş Kodu	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	G (mm)	Ağırlık
C965-160A	161	160	48	112.5	215	425	300	41.5	45 kg
C965-160	161	190	48	112.5	215	425	300	41.5	40 kg
C965-200	200	218	62	140.0	273	550	336	44.5	85 kg
C965-160T	160 mm Mengene Tablası								

C007 3 Açılı Menge

- Mengene üç doğrultuda ayarlanabilir, tabla 360° dönebilir,
yatay dikey yönde 90° hareket edebilir, ayrıca sağa sola her iki yöne 45° ayarlanabilir



Sipariş Kodu	Çene Genişliği (mm)	Çene Yüksekliği (mm)	Max. Açılma (mm)	Ağırlık
C007-105	105	40	110	31 kg
C007-125	125	40	125	35 kg
C007-135	135	45	145	40 kg

C904 2 Açılı Menge

- Ağır dökme demir gövde
- Her iki doğrultuda ölçek
- Dikey ve yatay 90° lik hareket



Sipariş Kodu	Çene Genişliği (mm)	Çene Yüksekliği (mm)	Max. Açılma (mm)	Ağırlık
C904-125	125	46	140	31 kg
C904-160	160	50	125	35 kg



S-120



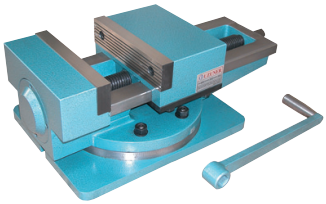
G-160



M-200



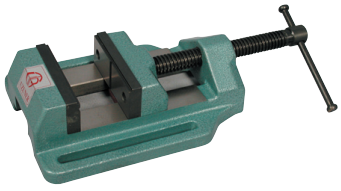
Y-250



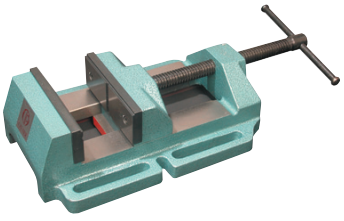
M-400



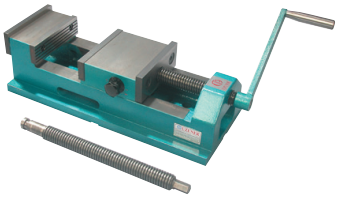
2A-100



MT-100



MT-150



MD-200

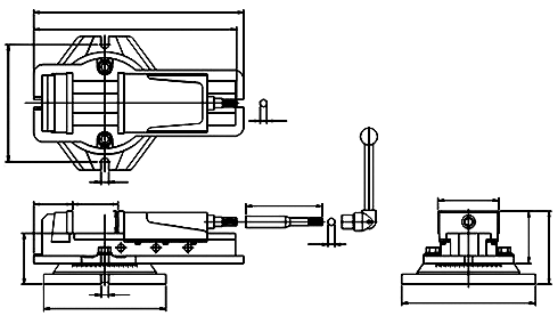
Makina Mengeneleri

Model	2A-100 (0°-60°)	S-120	G-160	M-200	Y-250	M-400	MT-100	MT-150
Açma Mesafesi	100 mm	120 mm	160 mm	200 mm	250 mm	400 mm	100 mm	150 mm
Çene Genişliği	126 mm	104 mm	130 mm	147 mm	190 mm	250 mm	100 mm	140 mm
Kg	30	16	30	45	63	112	6,5	14,5

Hassas CNC Mengeneler

Model	Açma Mesafesi	Süper Açma	Çene Genişliği	Çene Yüksekl.	Toplam Uzunluk	Toplam Yükseklik	Ağırlık Kg.
MD 200	200 mm	400 mm	150 mm	50 mm	470 mm	120 mm	35
MD 300	300 mm	550 mm	200 mm	60 mm	650 mm	140 mm	60

VJ Uzun Tip Süper Open Menge - Vertex

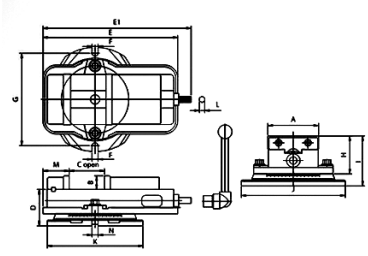


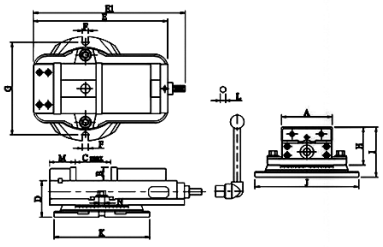


- Hidrolik sistem hariç VH-Tip ile aynı özelliklere sahip - Hassasiye 0.02 mm'dir - VJ-400 Çene açılımı 190 mm
- VJ-500 Çene açılımı 235 mm - VJ-600 Çene açılımı 310 mm

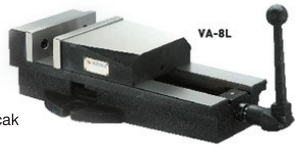
Sipariş Kodu	A	B	C Açılım	Açılma Kapasitesi C1	C2	C3	D	E	E1	F	G	H	I	J	K	L	M	N	O	Max. Kapanma Gücü (Kg)	Ağırlık (Kg)
VJ-400	110	38	190	0-65	52-129	116-190	97	386	516	15	240	96	135	270	238	14,5	90	16	156	1500	25
VJ-500	132	48	235	0-78	70-158	150-235	110	455	580	17	255	113	158	290	265	14,5	85	16	166	1500	34
VJ-600	154	56	310	0-111	97-121	197-310	118	546	722	17	255	131	175	290	265	19	111	16	200	1500	46

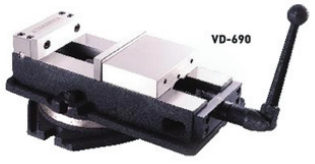
VA Freze Mengesi - Vertex









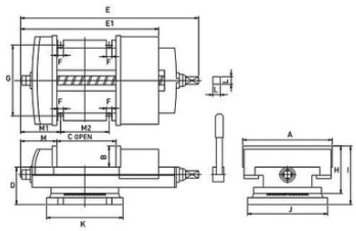


- Çeneler ve hareketli yüzeyler sertleştirilip taşlanmıştır.
- Maksimum kapama gücü sağlar.
- Bu mengene sıkılan kolun hareketli çene içerisindeki yarım daireyi sıkıştırmasıyla yatay gücün hareketli çeneyi aşağı bastırmasını sağlayacak şekilde dizayn edilmiştir.
- Bu sayede işlenen parça çenelerin üst kısmında olsa bile yukarı kalkmaz.
- 4 adet yerleşim pozisyonu daha geniş çene açılımı sağlar.
- Hassasiyet 0.02 mm.

Sipariş Kodu	A	B	C Açılım	D	E	E1	F	G	H	I	J	K	L	M	N	Max. Kapanma Gücü (Kg)	Ağırlık Kg
VA-4	106	36	103	90	324	351	13	211	96	126	242	228	14,5	75	...	1500	20
VA-5	135	36	110	97	359	394	16	246	101	133	277	255	14,5	85	...	2000	30
VA-6	155	46	142	110	422	452	20	288	118	158	326	302	19	95	...	2500	42
VA-8	210	60	197	129	583	583	17	355	145	190	395	366	19	105	16	3000	80
VA-675	160	49	190	110	445	478	19	296	121	160	333	305	19	80	16	2500	42
VA-8L	208	64	260	138	510	561	17	310	157	202	375	282	19	71	...	3000	73
VA-690	155	46	230	110	450	480	24	288	118	158	326	302	19	67	20	2300	43

VSM Tezgah Mengenesi - Vertex

- Yüksek gerilimli dökme demirden imal edilmiştir.
- Geniş açılabilir çeneleri ve yüksek kavrama gücü ile ağır iş kesme ve ağır iş frezeleme operasyonlarında büyük parçaları tutmak için uygundur.

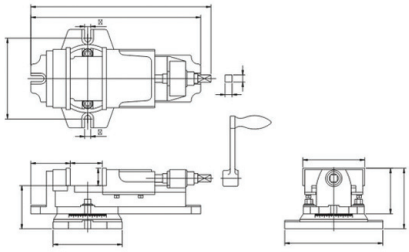




Sipariş Kodu	A	B	C Açılım	D	E	E1	F	G	H	I	J	K	L	M	M1	M2	Max. Kapanma Gücü (Kg)	Ağırlık Kg
VSM-12	304	72	290	126	604	560	18	240	161	198	242	260	25	123	123	165	800	84
VSM-16	405	96	415	145	763	738	20	292	200	241	336	260	25	135	135	248	1000	142
VSM-20	508	95	505	150	902	871	21	288	204	245	336	260	25	169	169	246	1200	200

VK K Tipi Freze Mengenesi - Vertex

- Yüksek hassasiyet ve kaliteli işçiliği ile ekipmanların pratik bir parçasıdır
gerilimli dökme demirden imal edilmiştir.
- Gövde, hareketli çene ve tabla sık taneli yüksek mukavemetli dökme demirden imal edilmiştir. Ağır işler ve sürekli hassasiyet için üretilmiştir.
- Çene pleytleri sertleştirilmiş ve taşlanmış takım çeliğinden imal edilmiştir.
- En uygun kullanım yerleri frezeleme, delme ve taşlamadır
- Hassasiyet 0.02 mm.

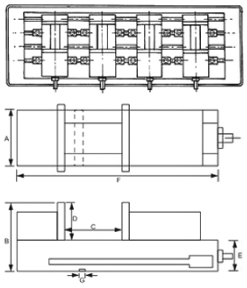


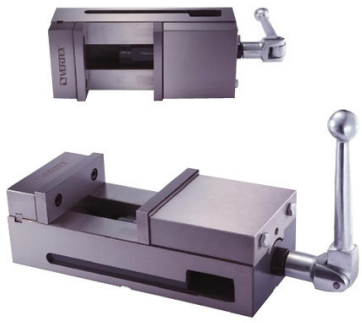


Sipariş Kodu	A	B	C Açılım	D	E	E1	F	G	H	I	J	K	L	M	Max. Kapanma Gücü (Kg)	Ağırlık Kg
VK-4	104	36	62	76	293	310	13	145	83	113	176	122	15	65	900	10
VK-5	130	37	82	92	362	384	13	172	97	129	209	147	15	84	900	16
VK-6	152	43	112	105	473	473	15	209	108	148	260	181	16.5	90	1000	27
VK-8	204	63	149	127	609	609	18	312	148	190	350	234	21	122	1400	58

VMC Lock - Fixed II Hassas Makina Mengenesi - Vertex

- Bu mengene sıkılan kolun hareketli çene içerisindeki yarım daireyi sıkıştırmasıyla yatay gücün hareketli çeneyi aşağı bastırmasını sağlayacak şekilde dizayn edilmiştir.
- Birden fazla mengenenin seri kullanılabilir.

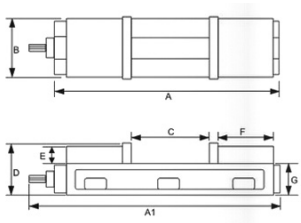


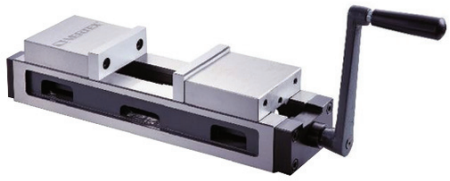


Sipariş Kodu	A	B	C Açılım	D	E	F	G	Max. Kapanma Gücü (Kg)	Ağırlık Kg
VMC-4	108	100	100	37	63	285	16	1500	14,2
VMC-6	156	120	142	46	74	368	16	2500	29,8

VCV-44 Bileşik Hassas Mengenesi - Vertex

- Otomatik merkezleme
- Kompakt dizayn
- Yüksek hassasiyet
- Yüksek açılım kapasitesi
- Düzensiz parçalara uygun
- Hızlı ve güvenli merkezleme

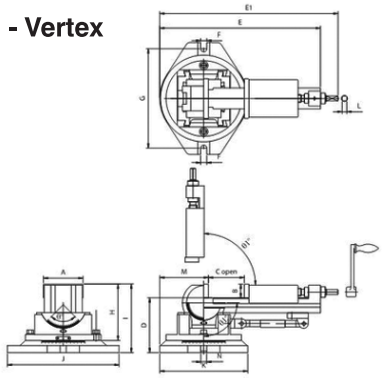




Sipariş Kodu	A	A1	B	C Açılım	D	E	F	G	Ağırlık Kg
VCV-44	415	462	102	195	95	30	102	60	17.7

VW 3 Açılı Freze Mengenesi - Vertex

- 3 doğrultuda ayarlanabilir
- Tabla 360° dönebilir
- Yatay-Dikey yönde 90° hareket edebilir
- Sağa-Sola her iki yöne 45° ayarlanabilir
- Her yön hareketinde işlem parçası sağlam biçimde tutulur
- Bölgesel olarak vidanın kapanan kısmı özel bir malzemeden üretilmiş yatak vasıtasıyla güçlendirilmiştir.

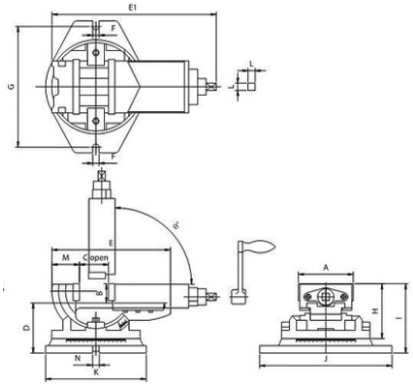




Sipariş Kodu	A	B	C Açılım	D	E	E1	F	G	H	I	J	K	L	M	N	Ø	Ø	Max. Kapanma Gücü (Kg)	Ağırlık Kg
VW-3	80	31	85	126	335	370	15	210	127	157	240	185	10	95	16	-45°-45°	-0°-90°	800	(K)16.7
VW-4	110	38	115	152	448	497	17	276	157	190	311	245	13	135	16	-45°-45°	-0°-90°	1000	(K)32.7
VW-5	135	40	150	170	530	580	17	310	173	210	358	271	13	140	16	-45°-45°	-0°-90°	1600	(K)49.4

VW 2 Açılı Freze Mengenesi - Vertex

- Ağır dökme demir gövde
- Her iki doğrultuda ölçek
- Z doğrultusunda360°lik tabla
- Yatay - Dikey yönde 90° hareket

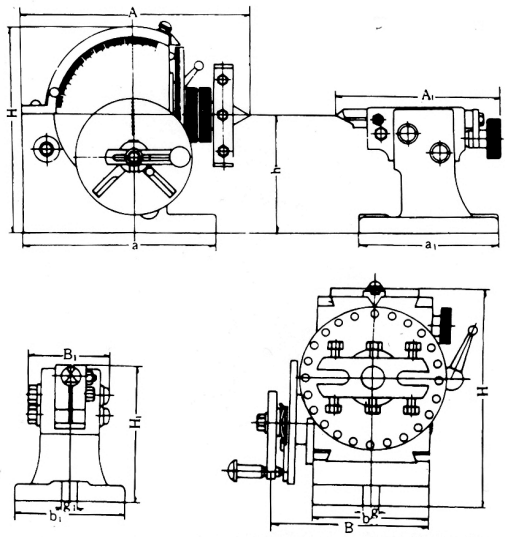


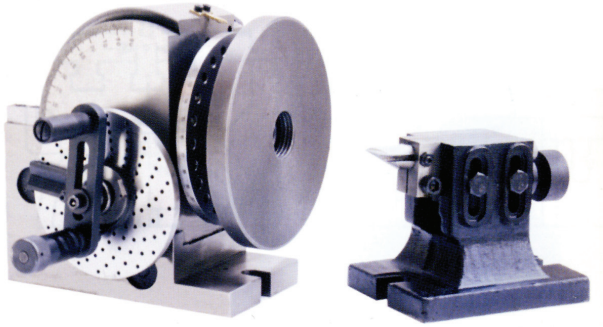


Sipariş Kodu	A	B	C Açılım	D	E	E1	F	G	H	I	J	K	L	M	N	Ø	Max. Kapanma Gücü (Kg)	Ağırlık Kg
VWT-5	130	46	95	118	280	415	15	286	130	164	3137	238	17	65	16	-0°-90°	900	(K)31.7
VWT-6A	160	51	125	140	360	510	17	293	150	191	328	252	17	16	16	-0°-90°	1600	(K)47

Divizörler

C963 Universal Divizör

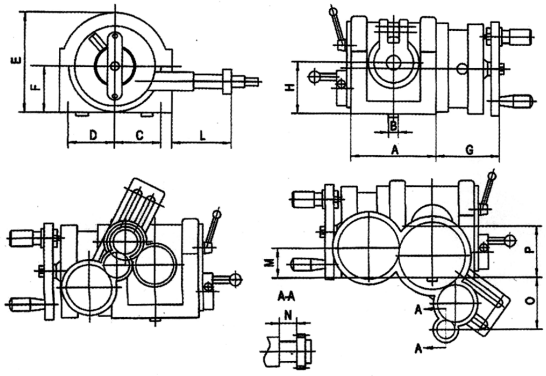


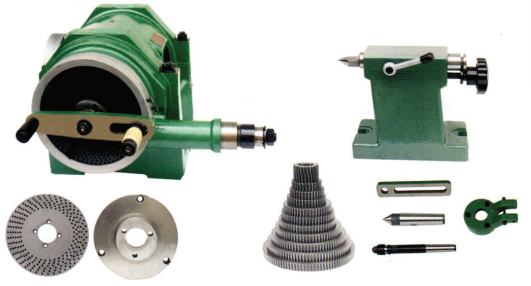


- Açılı kilitleme sayesinde iş parçası sıkma esnasında yukarı kayma yapmaz
- Ayna fiyata dahil değildir

Sipariş Kodu	Divizör										Kar•ı Punta							Ağırlık Kg
	Ölçü	A (mm)	B (mm)	H (mm)	h (mm)	a (mm)	b (mm)	g (mm)	Merkez Koniği	Mil Çapı Deliği	A1 (mm)	B1 (mm)	H1 (mm)	h (mm)	a1 (mm)	b1 (mm)	g1 (mm)	
C963-208A	BS-0	189	140	173	100	160	91	12	MK-2	18	167	80	107.5	100	130	92	13	19
C963-208B	BS-1	293	156	220	128	207	114	16	MK-3	20	191	88	137	128	150	108	16	33.5
C963-208C	BS-2	365	272	236	132.7	213	134	16	MK-4	25.4	205-255	86	139	132.7	175	124	16	65

C966 Universal Kuyruklu Divizör

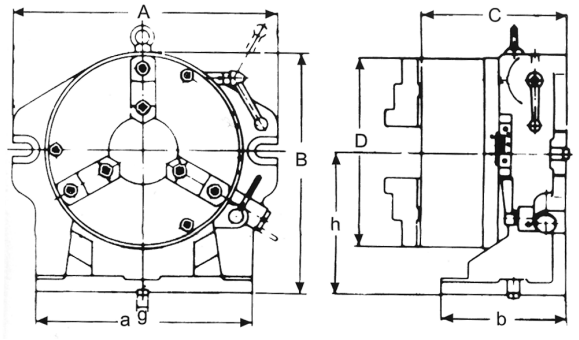


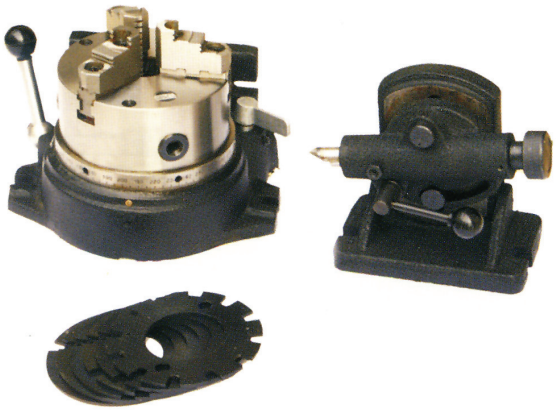


- Ayna fiyata dahil değildir
- Sağ (R) kuyruk, Sol (L) kuyruk olarak teslim edilir
- Fotoğraf Sağ (R)

Sipariş Kodu	Ayna Çapı	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	M (mm)	N (mm)	O (mm)	P (mm)	Ağırlık
C966-125L	Ø160	209	18	116	98	98	117	120	120	103	68.5	64.5	100	125	110 kg
C966-125R	Ø160	209	18	116	98	98	117	120	120	103	68.5	64.5	100	125	110 kg
C966-160L	Ø200	209	18	116	98	259	152	120	160	103	68.5	64.5	100	160	130 kg
C966-160R	Ø200	209	18	116	98	259	152	120	160	103	68.5	64.5	100	160	130 kg

CC Yatay Dikey Index Divizör

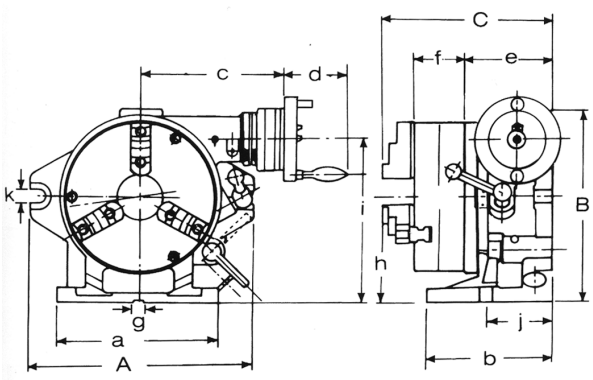


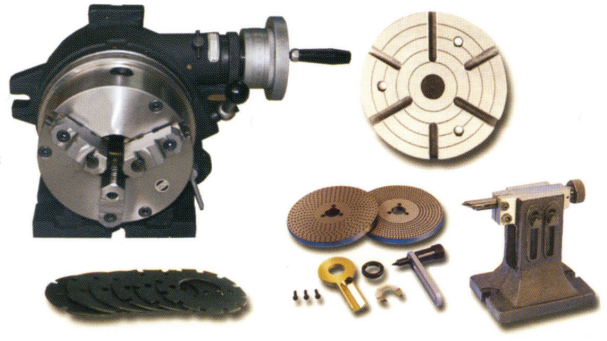


- Açılı kilitleme sayesinde iş parçası sıkma esnasında yukarı kayma yapmaz
- Ayna fiyata dahil değildir

Sipariş Kodu	Ayna				Kılavuz Deliği g (mm)	Delik Çapı Taret (mm)	A (mm)	B (mm)	C (mm)	D (mm)	a (mm)	b (mm)	h (mm)	Ağırlık Kg
	Çap	Delik Çapı (mm)	Ters Ayak	Düz Ayak										
CC-6	160	40	3~55	55~145	16	50	255	225	152	160	190	115	130	32
CC-8	200	65	3~55	65~200	16	63	320	272	174	200	230	154	154	52

CS Yatay Dikey Index Divizör

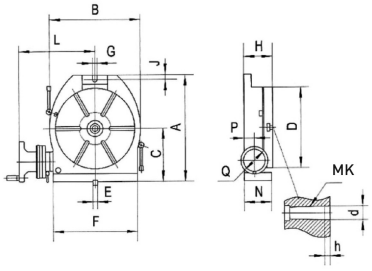


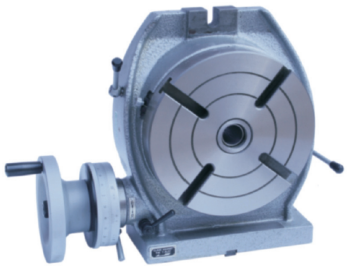


- Ayna fiyata dahil değildir
- Sağ (R) kuyruk, Sol (L) kuyruk olarak teslim edilir
- Fotoğraf Sağ (R)

Sipariş Kodu	Ayna				Yüzey Plakası		Kılavuz Deliği g (mm)	Delik Çapı Taret (mm)	A (mm)	B (mm)	C (mm)	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	g (mm)	h (mm)	i (mm)	j (mm)	k (mm)	Ağırlık
	Çap	Delik Çapı	Ters	Düz	Dış	Kalınlık																	
CS-6	160	40	3~55	55~14	205	40	16	50	250	238	207	182	140	186	93	112	65	16	122	191	80	16	48 kg
CS-8	200	65	3~55	565~2	254	42	16	63	320	294	235.5	230	160	213	93	126.5	75	16	155	234.5	95	20	74 kg

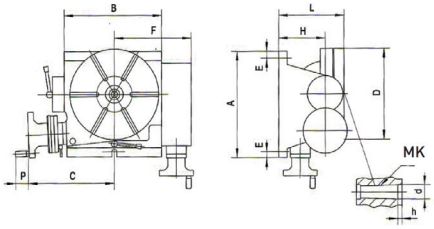
C960 Yatay Dikey Super Index Divizör

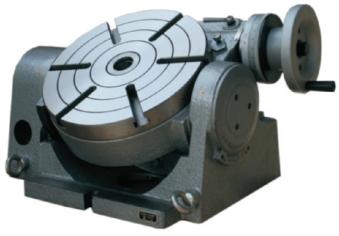




Sipariş Kodu	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	L (mm)	MK	N (mm)	P (mm)	Q (mm)	d (mm)	h (mm)	Ağırlık Kg
C960-200	285	236	150	Ø200	14	208	14	100	15	211	MK3	99	48	125	Ø30	6	27
C960-250	328	286	170	Ø250	14	253	14	110	16	241	MK3	106	48	125	Ø30	6	38
C960-320	410	360	210	Ø320	18	320	18	120	16	273	MK4	118	48	140	Ø40	10	61
C960-400	525	450	260	Ø400	18	400	18	150	16	337	MK4	145	70	160	Ø40	10	119

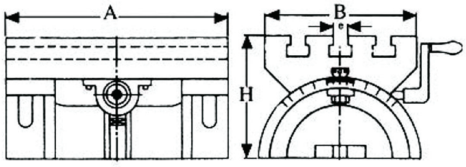
C962 Yatay Dikey Super Index Divizör





Sipariş Kodu	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	MK	P (mm)	d (mm)	h (mm)	Ağırlık Kg
C962-250	310	252	235	Ø250	14	199	140	205	MK3	40	Ø30	6	75.5
C962-320	380	322	252	Ø320	16	241	175	255	MK3	40	Ø40	10	110

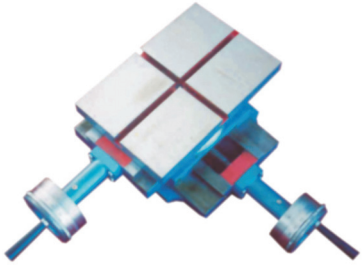
C004 Yatay Dikey Super Index Divizör





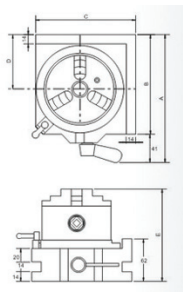
Sipariş Kodu	Tabla			T Kanal	Çalışma Açısı	Ağırlık Kg
	A (mm)	B (mm)	H (mm)	e (mm)		
C004-250	254	178	127	12.70	45°	29
C004-300	304	228	163	12.70	45°	40
C004-380	381	254	165	16	45°	56.5

C975 Yatay Dikey Super Index Divizör



Sipariş Kodu	Tabla Ölçüsü (mm)	Yükseklik (mm)	Uzunluk (mm)	Kanal Ölçüsü (mm)	Çalışma Mesafesi (mm)	Hassasiyet (mm)	Ağırlık Kg
C975-200x200	200 x 200	175	350	9.66	125	0.01	20
C975-200x305	200 x 305	140	510	11.18	200	0.01	38

VSI Ekonomik Tip Yatay Dikey Index Divizör - Vertex





- Büyük kapasitesi(Ø3-Ø100) ile pens sisteminden daha iyidir.
- Basit ve hızlı operasyon 15°lik 24 delikli plaka
- Açısal indeksleme için tabla ölçeğidir. 1°dir.
- Tabla deliği 30mm'dir
- Yatay-Dikey kullanım
- Frezeleme ve matkap makinalarına uygundur.

Birim (mm)

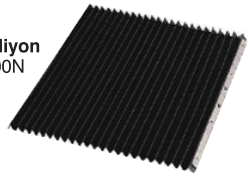
Sipariş Kodu	A	B	C	D	E	Kg
VSI-4	187	146	146	80	135	10.5
VSI-5	202	161	161	87	142	14.5

MFK3800 Makina Koruyucu Körük

Arka Düz
MFK3800A



Ön Akordiyon
MFK3800N



Birim (mm)

Sipariş Kodu	Ebat En x Boy	Ağırlık (Kg)
MFK3800N	450x500	0.75 Kg.
MFK3800A	500x700	1.00 Kg.

VCT Hassas Çapraz Suport



Birim (mm)

Sipariş Kodu	A	B	C	E	F	T yuva	Toplam Yükseklik	Ölçek Oranı	Paket Ölçüleri ExBxY	Ağırlık Kg
VCT-407	100	180	130	100	115	3/8"	100	2.5mm/0.02	290x240x140	12
VCT-514	150	350	250	300	206	3/8"	134	4mm/0.02	290x240x140	33.5
VCT-820	200	500	300	400	250	3/8"	155	4mm/0.02	290x240x140	72
VCT-1024	250	600	400	500	340	1/2"	210	4mm/0.02	290x240x140	141

- Malzeme: FC-30 üstü
- Hassasiyet: 0.02/100 mm
- Hareketli yüzeyler ısıl işleme tabi tutulmuş ve hassas taşlanmıştır.
- Ölçüm tablası olarak kullanılmıştır.

CS Yatay Dikey Süper Index Divizör Yedekleri

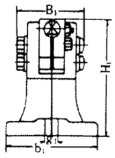


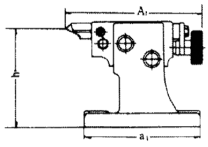


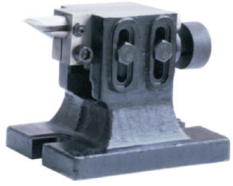


Sipariş Kodu	Divizör Çapı	Açıklama
CS-6-EDP-1	160	Tanbur
CS-8-EDP-2	200	Tanbur
CS-6-ETS-1	160	Karşı Punta
CS-8-EDP-2	200	Karşı Punta

C963 Karşı Punta



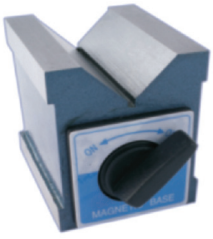


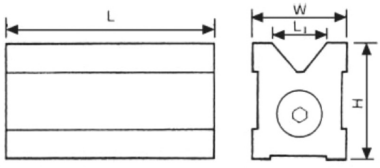


Sipariş Kodu	A1(mm)	B1(mm)	H1(mm)	h (mm)	a1(mm)	b1(mm)	g1(mm)
C963-BS0KP	167	80	107.5	100	130	92	13
C963-BS1KP	191	88	137	128	150	108	16
C963-BS2KP	250~255	86	139	132.7	175	124	16

Yardımcı Ekipmanlar / V Yataklar

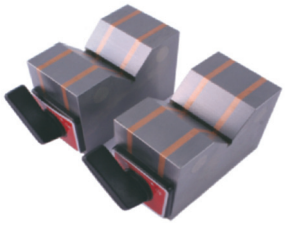
C901 Manyetik "V" Yatak Tek Ölçüm için

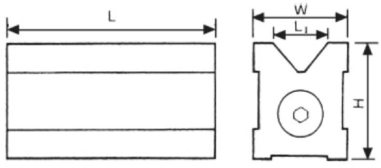




Sipariş Kodu	H (mm)	W (mm)	L (mm)	Çekme Kuvveti (Kg)	Ağırlık (Kg)
C901-0090	72	65	70	90	1,5
C901-0145	95	70	100	145	3,5

C899 Ayarlanabilir Yatak





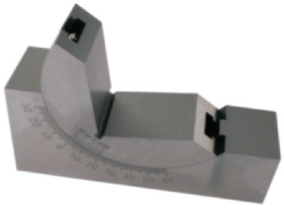
Sipariş Kodu	H (mm)	W (mm)	L (mm)	L1 (mm)	Ağırlık (Kg)
C899-50	50	40	70	30	1x2
C899-80	80	50	100	60	3x2

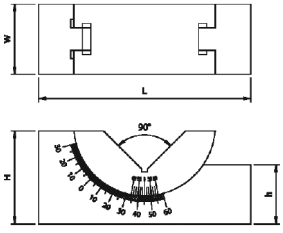
C902 Gönye Pleyti



Sipariş Kodu	Genişlik (mm)	Yükseklik (mm)	Uzunluk (mm)	Ağırlık (Kg)
C902-44	44	41	35	12
C902-70	70	44	41	23

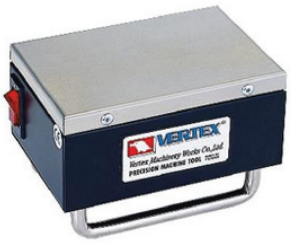
C005-30 Ayarlanabilir Yatak

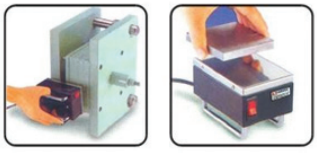




Sipariş Kodu	A (mm)	B (mm)	H (mm)	E (mm)	Ağırlık (Kg)
C005-30	48	30	102	28	0.9

VDM-9 Mini Manyetik Alma Cihazı





Portatif Kullanım

Sipariş Kodu	Giriş Voltajı	Kapasite	Çalışma Yüzeyi	Yükseklik	Ağırlık (kg)	Çevrim Oranı
VDM-9	AC- 110V 220V	110VA	123 x 83	83	1.8	90%

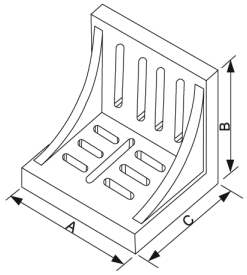
VDM-8 Manyetik Alma Cihazı



VDM-8, 11

Sipariş Kodu	Giriş Voltajı	Kapasite	Çalışma Yüzeyi	Yükseklik	Ağırlık (kg)	Çevrim Oranı
VDM-8	AC- 110V 220V	210VA	160 x 110	100	4.5	50%
VDM-11		550VA	200 x 280	30	16	100%

C012 Gönye Pleyti





Sipariş Kodu	A (mm)	B (mm)	H (mm)	e (mm)	Ağırlık (Kg)
C012-250	250	250	200	150	12
C012-300	300	300	230	200	23

C010-000 Manyetik Alma Cihazı



Sipariş Kodu	En (mm)	Boy (mm)	Yükseklik (mm)	Giriş Voltajı (Kg)
C010-000	120	165	90	220V

C111 Dereceli Çelik Mastar



Sipariş Kodu	Boy (mm)	Genişlik (mm)	Kalınlık (mm)
C111-0500	500	25	5
C111-0750	750	30	6
C111-1000	1000	30	6
C111-1500	1500	30	6
C111-2000	2000	40	8
C111-2500	2500	40	8
C111-3000	3000	40	8
C111-4000	4000	40	8

C110 Paslanmaz Çelik Mastar mm/Inç



Sipariş Kodu	Boy (mm)	Genişlik (mm)	Kalınlık (mm)
C110-01515	150	15	0.50
C110-02020	200	20	0.75
C110-03025	300	25	0.70
C110-05030	500	30	0.85
C110-10020	1000	20	0.70
C110-10030	1000	30	0.95
C110-15038	1500	38	1.40
C110-20038	2000	38	1.70

C014 Yandan Cıvatalı Kalem Tutucu Pergel



Sipariş Kodu	Ölçü (mm)
C014-050	150
C014-200	200
C014-250	250
C014-300	300

C110D Dijital Doğrusal Cetvel



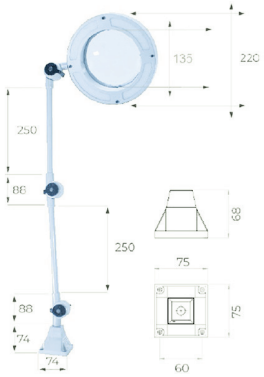
Sipariş Kodu	Boy (mm)	Hassasiyet (mm)
C110D-0600	600	0.01
C110D-1000	1000	0.01

C013 Pergeller



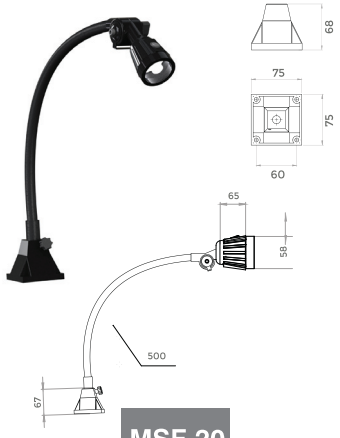
Sipariş Kodu	Ölçü (mm)
C013-01-100	100mm Pergel
C013-01-125	125mm Pergel
C013-01-200	200mm Pergel
C013-01-250	250mm Pergel
C013-01-300	300mm Pergel
C013-01-400	400mm Pergel
C013-01-500	500mm Pergel
C013-01-600	600mm Pergel
C013-02-200	200mm ‹ç Çap Pergeli
C013-02-250	250mm ‹ç Çap Pergeli
C013-02-300	300mm ‹ç Çap Pergeli
C013-03-200	200mm ‹ç Çap Pergeli
C013-03-250	250mm ‹ç Çap Pergeli
C013-03-300	300mm ‹ç Çap Pergeli

Büyüteçli Lamba



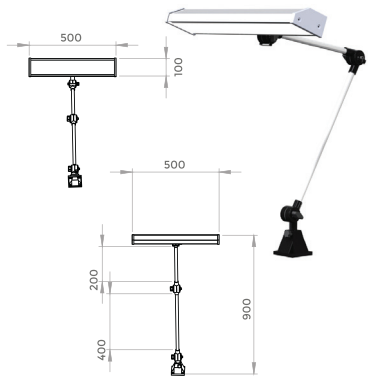
MSF-10

Led Makina Lambası



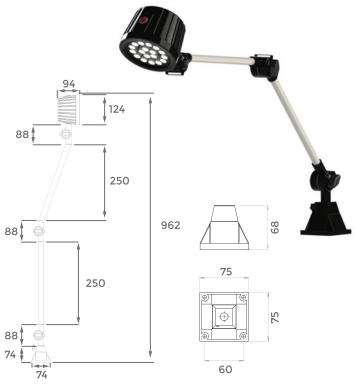
MSF-20

Led Makina Lambası



MSF-30

Led Makina Lambası



MSF-40

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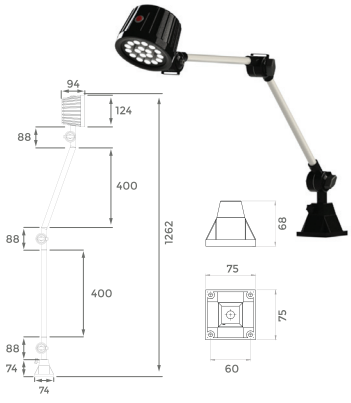
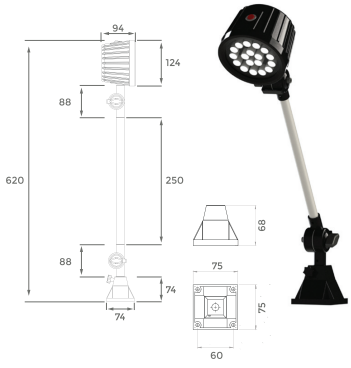


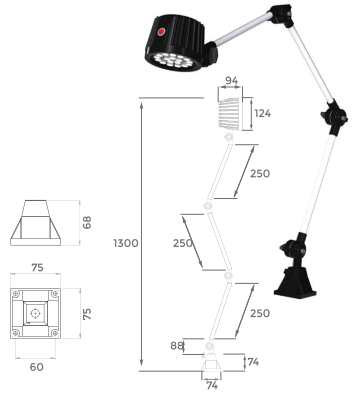
MSF-50

Led Makina Lambası



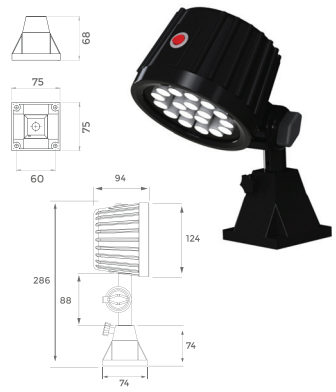
MSF-60

Led Makina Lambası



MSF-70

Led Makina Lambası



MSF-80

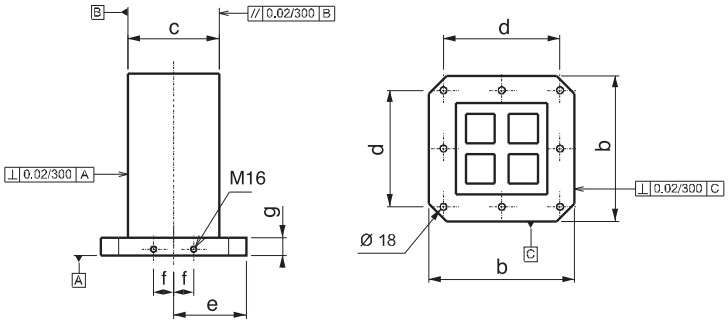
Cam Tüp Makina Lambası

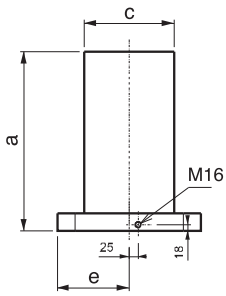


MSF-90

2610 CNC Yatay İşleme Kulesi





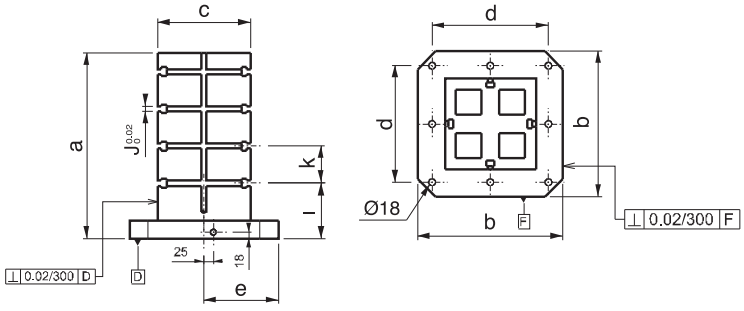


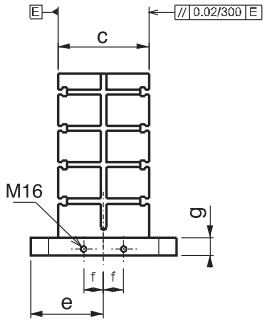
Sipariş Kodu	a	b	c	d	e	f	g	(kg)
2610-400250	500	400	250	320	200	55	50	180
2610-500300	600	500	300	400	250	75	50	240
2610-630350	700	630	350	500	315	100	50	390

- İsteğe göre uygulama yapılabilmesi için yüzeyler deliksizdir.
- Malzeme : Döküm

2630 CNC Yatay İşleme Kulesi T-Kanallı





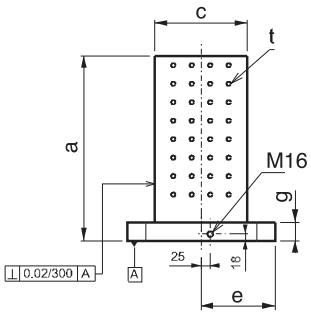


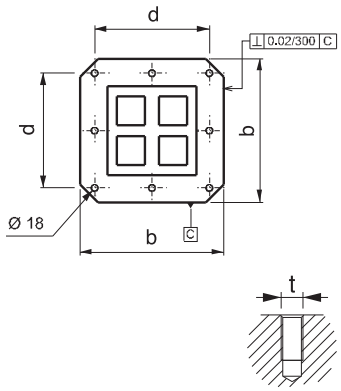
Sipariş Kodu	a	b	c	d	e	f	g	ı	k	J (0.02 0)	(kg)
2630-40025014	500	400	250	320	200	55	50	150	100	14	165
2630-50030014	600	500	300	400	250	75	50	150	100	14	227
2630-63035014	700	630	350	500	315	100	50	150	125	14	375
2630-40025018	500	400	250	320	200	55	50	150	100	18	155
2630-50030018	600	500	300	400	250	75	50	150	100	18	223
2630-63035018	700	630	350	500	315	100	50	150	125	18	370

- Dört yüzeyine iş parçası bağlanabilir.
- Standart bağlama ekipmanlarına uyumludur.
- T-Kanal ölçüsü 14mm - 18mm DIN 650 standartındadır.
- Malzeme : Döküm

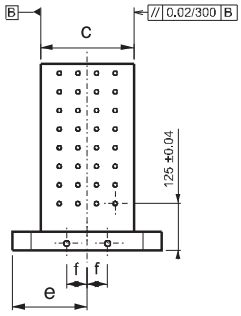
2650 CNC Yatay İşleme Kulesi (Kare) Delikli







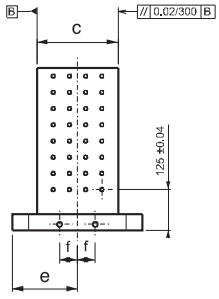
Sipariş Kodu	a	b	c	d	e	f	g	t	(kg)
2650-40025012	500	400	250	320	200	55	50	M12	170
2650-50030012	600	500	300	400	250	75	50	M12	230
2650-63035012	700	630	350	500	315	100	50	M12	380
2650-40025016	500	400	250	320	200	55	50	M16	168
2650-50030016	600	500	300	400	250	75	50	M16	228
2650-63035016	700	630	350	500	315	100	50	M16	376

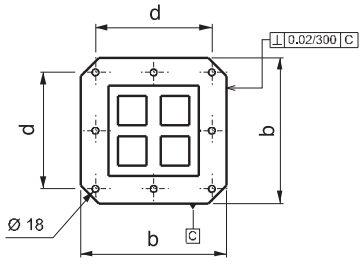


- Malzeme : Döküm
- Dört yüzeyine iş parçası bağlanabilir.
- Standart bağlama ekipmanlarına uyumludur.
- Her yüzeye M12 - M16 diş merkez aralığı 50mm ±0.02

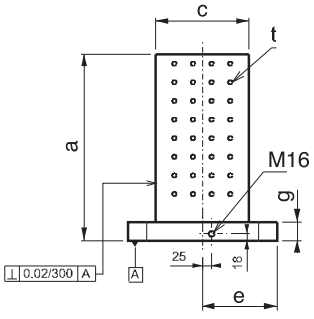
2660 CNC Yatay İşleme Kulesi (Kare) Delikli



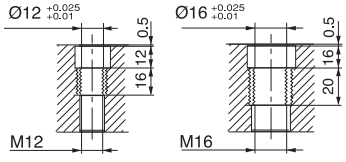




Sipariş Kodu	a	b	c	d	e	f	g		(kg)
2660-40025012	500	400	250	320	200	55	50	M12	170
2660-50030012	600	500	300	400	250	75	50	M12	230
2660-63035012	700	630	350	500	315	100	50	M12	380
2660-40025016	500	400	250	320	200	55	50	M16	168
2660-50030016	600	500	300	400	250	75	50	M16	228
2660-63035016	700	630	350	500	315	100	50	M16	376

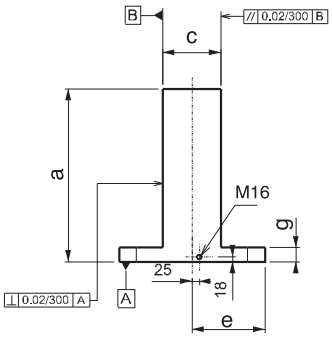


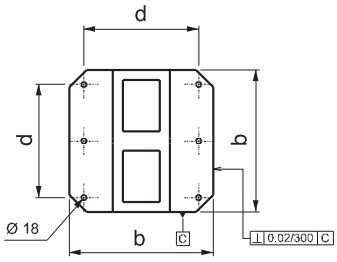
- Malzeme : Döküm
- Dört yüzeyine iş parçası bağlanabilir.
- Standart bağlama ekipmanlarına uyumludur.
- Her yüzeye M12 - M16 diş merkez aralığı 50mm ±0.02
- Çelik burçlu dişler sertleştirilmiştir.

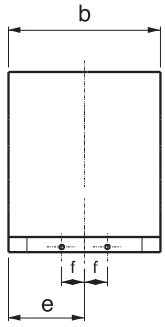


2670 CNC Yatay İşleme Kulesi (Dikdörtgen)







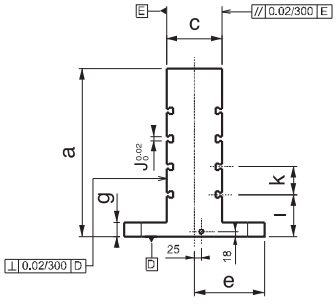


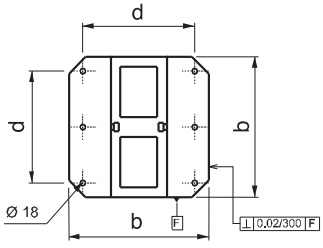
Sipariş Kodu	a	b	c	d	e	f	g	(kg)
2670-400150	500	400	150	320	200	55	50	175
2670-500200	600	500	200	400	250	75	50	265
2670-630250	700	630	250	500	315	100	50	484

- İsteğe göre uygulama yapılabilmesi için yüzeyler deliksizdir.
- Malzeme : Döküm

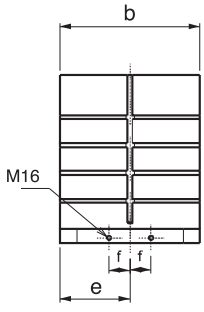
2690 CNC Yatay İşleme Kulesi (Dikdörtgen) T-Kanallı







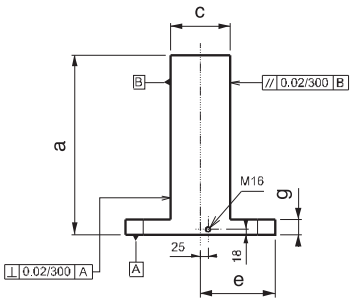
Sipariş Kodu	a	b	c	d	e	f	g	ı	k (±0.02)	J (0.02 0)	(kg)
2690-40015014	500	400	150	320	200	55	50	150	100	14	165
2690-50020014	600	500	200	400	250	75	50	150	100	14	240
2690-63025014	700	630	250	500	315	100	50	150	125	14	455
2690-40015018	500	400	150	320	200	55	50	150	100	18	152
2690-50020018	600	500	200	400	250	75	50	150	100	18	238
2690-63025018	700	630	250	500	315	100	50	150	125	18	450

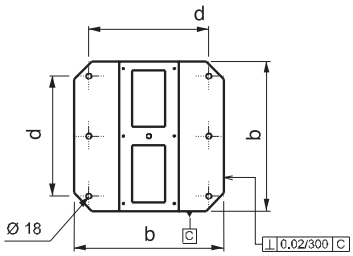


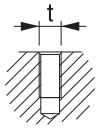
- İki yüzeyine iş parçası bağlanabilir.
- Standart bağlama ekipmanlarına uyumludur.
- T-Kanal ölçüsü 14mm - 18mm DIN 650 standartındadır.
- Malzeme : Döküm

2710 CNC Yatay İşleme Kulesi Dikdörtgen (Delikli)

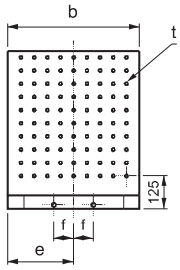








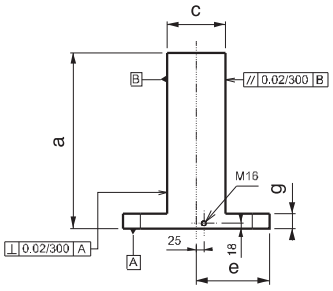
Sipariş Kodu	a	b	c	d	e	f	g	t	(kg)
2710-40015012	500	400	150	320	200	55	50	M12	170
2710-50020012	600	500	200	400	250	75	50	M12	250
2710-63025012	700	630	250	500	315	100	50	M12	475
2710-40015016	500	400	150	320	200	55	50	M16	164
2710-50020016	600	500	200	400	250	75	50	M16	248
2710-63025016	700	630	250	500	315	100	50	M16	470

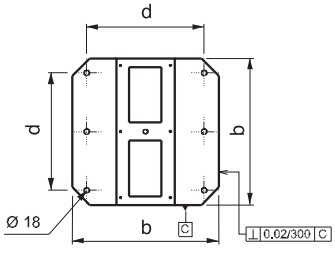


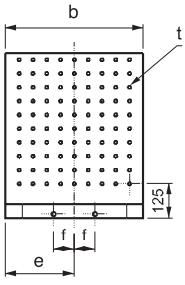
- Malzeme : Döküm
- İki yüzeyine iş parçası bağlanabilir.
- Standart bağlama ekipmanlarına uyumludur.
- İki yüzeye M12 - M16 diş merkez aralığı 50mm ±0.02

2720 CNC Yatay İşleme Kulesi Dikdörtgen (Delikli)



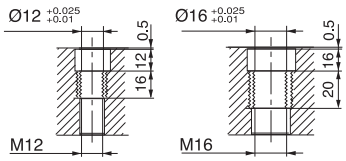




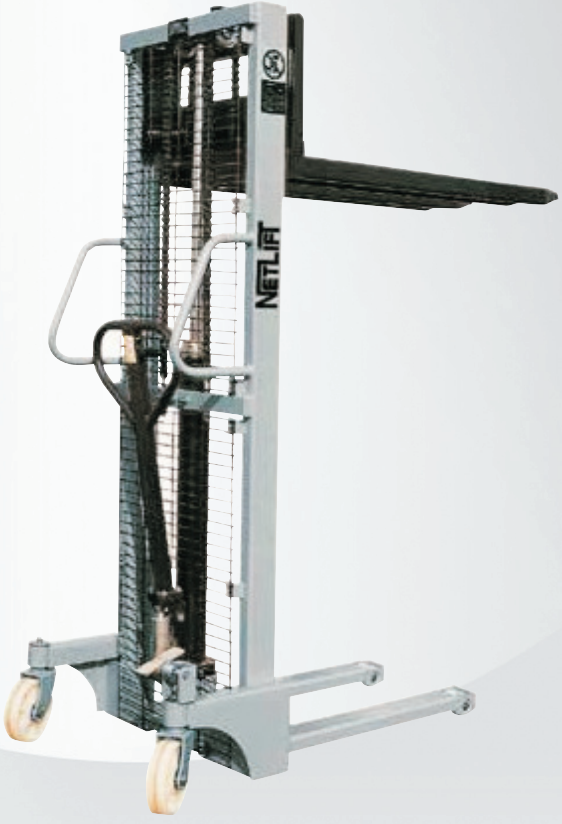


Sipariş Kodu	a	b	c	d	e	f	g		(kg)
2720-40015012	500	400	150	320	200	55	50	M12	170
2720-50020012	600	500	200	400	250	75	50	M12	250
2720-63025012	700	630	250	500	315	100	50	M12	475
2720-40015016	500	400	150	320	200	55	50	M16	164
2720-50020016	600	500	200	400	250	75	50	M16	248
2720-63025016	700	630	250	500	315	100	50	M16	470

- Malzeme : Döküm
- İki yüzeyine iş parçası bağlanabilir.
- Standart bağlama ekipmanlarına uyumludur.
- İki yüzeye M12 - M16 diş merkez aralığı 50mm ±0.02
- Çelik burçlu dişler sertleştirilmiştir.



Lifting Ürünler





NL-AP 25 Transpalet Standart Model

Kaldırma kapasitesi / Capacity		2500	kg
Min. çatal yüksekliği / Min. fork height	(h)	85	mm
Max. çatal yüksekliği / Max. fork height	(h_1)	200	mm
Yön tekerleği / Steering wheel		200 x 50	mm
Yük tekerleri / Load wheels		80 x 70	mm
Çatal ölçüsü / Size of fork	(e x s)	160 x 50	mm
Dıştan dışa çatal genişliği / Overall fork width	(B)	540	mm
Çatal boyu /Fork length	(L)	1150	mm
Ağırlık / Service weight (pre estimate)		70	kg



NL-M 10 NL-M 15 Transpalet Teleskobik Makaslı

	NL-M 10	NL-M 15	
Kaldırma kapasitesi / Capacity	1000	1500	kg
Min. çatal yüksekliği / Min. fork height	85	85	mm
Max. çatal yüksekliği / Max. fork height	800	800	mm
Yön tekerleği / Steering wheel	180 x 50	180 x 50	mm
Yük tekerleri / Load wheels	80 x 50	80 x 50	mm
Dıştan dışa çatal genişliği / Overall fork width	540	540	mm
Çatal boyu /Fork length	1150	1150	mm
Ağırlık / Weight (pre estimate)	93	98	kg



NL-AP 25F Transpalet Frenli Model

Kaldırma kapasitesi / Capacity		2500	kg
Min. çatal yüksekliği / Min. fork height	(h)	85	mm
Max. çatal yüksekliği / Max. fork height	(h_1)	200	mm
Yön tekerleği / Steering wheel		200 x 50	mm
Yük tekerleri / Load wheels		80 x 70	mm
Çatal ölçüsü / Size of fork	(e x s)	160 x 50	mm
Dıştan dışa çatal genişliği / Overall fork width	(B)	540	mm
Çatal boyu /Fork length	(L)	1150	mm
Ağırlık / Service weight (pre estimate)		77	kg

Progresif Fren Sistemi

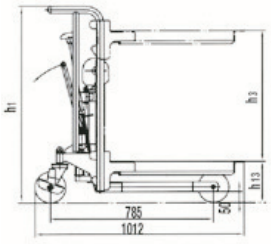


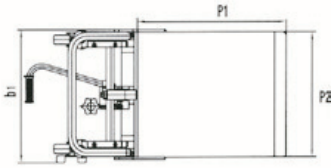


NL-AP 25 İstif Makinası Mini Model / Platformlu

		NL-MMS 0485	NL-MMS 0412	NL-MMS 0415	
Kaldırma kapasitesi / Capacity		400	400	400	kg
Makine yüksekliği / Max. height	(h_1)	980	1330	1630	mm
Kaldırma yüksekliği / Lifting height	(h_3+ h_{13})	850	1200	1500	mm
Min. platform yüks. /Min. platform height	(h_{13})	200	200	200	mm
Maksimum genişlik / Max. width	(b_1)	590	590	590	mm
Platform uzunluğu / Platform length	(p_1)	650	650	650	mm
Platform genişliği / Platform width	(p_2)	550	550	550	mm
Ön (yön) tekerleği / Rear roller		Ø150 x 40	Ø150 x 40	Ø150 x 40	mm
Arka (yük) tekerleği / Load roller		Ø150 x 45	Ø150 x 45	Ø150 x 45	mm
Ağırlık / Weight		70	76	86	kg



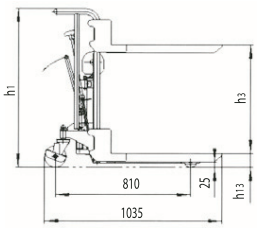


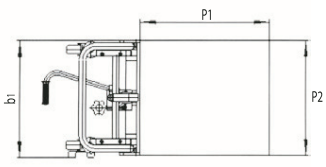


NL-MMS 0485 P NL-MMS 0412 P NL-MMS 0415 P İstif Makinası Mini Model / Çatallı ve Platformlu

		NL-MMS 0485 P	NL-MMS 0412 P	NL-MMS 0415 P	
Kaldırma kapasitesi / Capacity		400	400	400	kg
Makine yüksekliği / Max. height	(h_1)	1075	1425	1725	mm
Kaldırma yüksekliği / Lifting height	(h_3+ h_{13})	850	1200	1500	mm
Min. platform yüks. /Min. platform height	(h_{13})	85	85	85	mm
Maksimum genişlik / Max. width	(b_1)	600	600	600	mm
Platform uzunluğu / Platform length	(p_1)	650	650	650	mm
Platform genişliği / Platform width	(p_2)	576	576	576	mm
Çatal ölçüleri /Fork dimensions	(s x e)	650 x 10	650 x 10	650 x 10	mm
Ön (yön) tekerleği / Rear roller		Ø127 x 40	Ø127 x 40	Ø127 x 40	mm
Arka (yük) tekerleği / Load roller		Ø75 x 40	Ø75 x 40	Ø75 x 40	mm
Ağırlık / Weight		75	81	91	kg







NL-MS Manuel İstif Makinası

	NL-MS 10-16	NL-MS 15-16	NL-MS 20-16	
Kaldırma kapasitesi / Capacity	1000	1500	2000	kg
Yük merkezi / Load center	400	400	400	mm
Kaldırma yüksekliği / Max. fork height	1600	1600	1600	mm
Minimum çatal yüksekliği / Lowered fork height	90	90	90	mm
Dıştan dışa çatal genişliği / Fork width	300 ~ 820	300 ~ 820	300 ~ 820	mm
Çatal uzunluğu / Fork length	1150	1150	1150	mm
Makine boyu /Overall length	1500	1500	1500	mm
Makine kapalı yüksekliği / Overall height	2100	2100	2100	mm
Makine genişliği / Overall width	865	865	865	mm
Ön (yön) tekerleği / Front wheel	Ø150 x 42	Ø150 x 42	Ø150 x 42	mm
Arka (yük) tekerleği / Rear roller	Ø74 x 70	Ø74 x 70	Ø74 x 70	mm
Ağırlık / Weight	250	260	285	kg





NL-MS Manuel İstif Makinası / Ekstra Yükseklik

	NL-MS 10-25	NL-MS 10-30	
Kaldırma kapasitesi / Capacity	1000	1000	kg
Yük merkezi / Load center	400	400	mm
Kaldırma yüksekliği / Max. fork height	2500	3000	mm
Minimum çatal yüksekliği / Lowered fork height	90	90	mm
Dıştan dışa çatal genişliği / Overall fork width	300 ~ 820	300 ~ 820	mm
Çatal uzunluğu / Fork length	1150	1150	mm
Makine boyu /Overall length	1500	1500	mm
Makine kapalı yüksekliği / Overall height	1810	2060	mm
Makine genişliği / Overall width	865	865	mm
Ön (yön) tekerleği / Front wheel	Ø150 x 42	Ø150 x 42	mm
Arka (yük) tekerleği / Rear roller	Ø74 x 70	Ø74 x 70	mm
Ağırlık / Weight	355	370	kg



NL-TTD 35 Platform / Teleskobik

	NL-TTD 35	
Kaldırma kapasitesi / Capacity	350	kg
Min. tabla yüksekliği / Min. table height (h1)	355	mm
Max. tabla yüksekliği / Max. table height (h2)	1300	mm
Tabla ölçüleri /The dimensions of table (lxbxd)	910 x 500 x 53	mm
Tekerlek ölçüsü / Caster wheel	125 x 40	mm
Maks. yükseklik için toplam pompalama / Foot pedal cycles to max. height	= 53	
Kol yüksekliği / Height of handle from the ground (h3)	975	mm
Ağırlık / Weight	105	kg



NL-TTD 80 Platform / Teleskobik

	NL-TTD 80	
Kaldırma kapasitesi / Capacity	800	kg
Min. tabla yüksekliği / Min. table height (h1)	445	mm
Max. tabla yüksekliği / Max. table height (h2)	1500	mm
Tabla ölçüleri /The dimensions of table (lxbxd)	1220 x 610	mm
Tekerlek ölçüsü / Caster wheel	125 x 40	mm
Maks. yükseklik için toplam pompalama / Foot pedal cycles to max. height	= 97	
Kol yüksekliği / Height of handle from the ground (h3)	1015	mm
Ağırlık / Weight	195	kg



NL-AP 25F Platform / Teleskobik

	NL-TTX 50	NL-TTX 100	
Kaldırma kapasitesi / Capacity	500	1000	kg
Min. tabla yüksekliği / Min. table height (h1)	290	360	mm
Max. tabla yüksekliği / Max. table height (h2)	915	1360	mm
Tabla ölçüleri /The dimensions of table (lxbxd)	1600 x 810	2035 x 750	mm
Tekerlek ölçüsü / Caster wheel	125 x 40	180x50/ 80x40	mm
Maks. yükseklik için toplam pompalama / Foot pedal cycles to max. height	= 55	= 200	
Kol yüksekliği / Height of handle from the ground (h3)	975	1000	mm
Ağırlık / Weight	154	333	kg



NL-OPP Akülü Yürütmeli Raf Yükleme Makinesi

	NL-OPP 3.5/3 FE	NL-OPP 4.0/3 FE	NL-OPP 4.5/3 FE	
Kaldırma kapasitesi / Capacity	300	300	300	kg
Maksimum personel sayısı /Max. occupants	1	1	1	
Çalışma yüksekliği / Working height	5.50	6.00	6.50	m
Platform yüksekliği / Platform Floor height	3.50	4.00	4.50	m
Makine boyu /Overall length	1.56	1.56	1.56	m
Makine genişliği / Overall width	0.76	0.76	0.76	m
Makine yüksekliği / Overall height	1.64	1.81	1.99	m
Platform ölçüsü /Platform size	0.93 x 0.70	0.93 x 0.70	0.93 x 0.70	m
Zemin açıklığı / Ground clearance	0.04	0.04	0.04	m
Teker mesafesi / Wheelbase	1.23	1.23	1.23	m
Dönme yarıçapı /Turning radius	1.72	1.72	1.72	m
Sürüş motoru /Drive motors	2 x 24/ 0.4	2 x 24/ 0.4	2 x 24/ 0.4	VDC/kW
Kaldırma Motoru /Lifting motor	24/ 2	24/ 2	24/ 2	VDC/kW
Kapalı hız / Travel speed (stowed)	4	4	4	km/h
Açık hız / Travel speed (raised)	1.1	1.1	1.1	km/h
Kaldırma-indirme hızı /Up-down speed	20 / 18	22 / 19	24 / 21	m/sn
Akü / Battery	2 x 12/ 120	2 x 12/ 120	2 x 12/ 120	V/Ah
Şarj cihazı / Integretad charger	24/ 10	24/ 10	24/ 10	V/A
Eğim / Gradeability	25	25	25	%
Sürüş tekerlekleği / Drive wheels	Ø 230 x 80	Ø 230 x 80	Ø 230 x 80	mm
Ön tekerlekler /Front wheels	6	6	6	in
Ağırlık / Weight	642	662	682	kg

Standard ekipmanlar

- Hassas kontroller
- Platformda kendinden kapanır kapı
- Maks. yükseklitke hareket imkanı
- İz bırakmayan tekerlek
- 2WD
- Otomatik fren sistemi
- Acil durum indirme valfi
- Acil durdurma butonu
- Hidrolik emniyet valfi
- Platformda hata göstergesi
- Forklift cepleri
- Şarj koruması

Seçenekler

- A şırı yük uyarısı
- Platform çalı şma ışığı
- Tüm hareketlerde sesli uyarı
- Çalı şma saati
- İkaz lambası
- Akü şarj göstergesi





1.56 m

NL-OPP 3.5/3 FE : 1.64 m
NL-OPP 4.0/3 FE : 1.81 m
NL-OPP 4.5/3 FE : 1.99 m



0.76 m

NL-OPP 3.5/3 FE : 5.50 m
NL-OPP 4.0/3 FE : 6.00 m
NL-OPP 4.5/3 FE : 6.50 m



NL-OPP 3.5/3 FE : 3.50 m
NL-OPP 4.0/3 FE : 4.00 m
NL-OPP 4.5/3 FE : 4.50 m

NL-TTD 35 Yük Taşıma Arabaları

		Tekerlek sayısı	Dönüş tablası ölçüsü	Kol boyu/ ayarlanan genişlik boyu	Ölçüler (mm)	Kapasite (ton)	Ağırlık (kg)
NL-X_4+Y_4	X_4	4	150	800	230 x 230 x 110	8	28
	Y_4	4	140 x 120	300 - 1000	170 x 140 x 110		
NL-X_8+Y_8	X_8	8	160	1100	560 x 420 x 110	16	72
	Y_8	8	200 x 160	400 - 1300	200 x 200 x 110		
NL-X_{12}+Y_{12}	X_{12}	12	180	1100	750 x 450 x 110	24	100
	Y_{12}	12	220 x 180	400 - 1400	256 x 200 x 110		
NL-X_{16}+Y_{16}	X_{16}	16	200	1100	936 x 500 x 110	32	124
	Y_{16}	16	240 x 200	400 - 1500	310 x 220 x 110		
NL-X_{18}+Y_{18}	X_{18}	18	200	1500	780 x 550 x 110	36	138
	Y_{18}	18	280 x 200	400 - 1500	300 x 550 x 110		

*PU teker



NL-SK Ağır Yük Taşıma Arabaları

	NL-SK 20	NL-SK 30	
Kapasite / Capacity	20	30	t
Uzunluk /Lenght	120	120	mm
Genişlik / Width	120	120	mm
Toplam yükseklik /Total height	108	117	mm
Silindirler / Cylinders	18	24	mm
Döner Tabla /Rotary Table	130	130	mm
Ağırlık / Weight	50	58	kg



NL-A098 Araç Transfer Krikosu

	NL-A098	
Kapasite / Capacity	1500	kg/çift
Ölçüler /Dimensions	680 x 620 x 220	mm
Net ağırlık / Net weight	18	kg
Brüt ağırlık / Gross weight	20	kg









NL-104 NL-105 Paket Taşıyıcısı

	NL-104	NL-105	
Kapasite / Capacity	250	150	kg
Genişlik / Width	610	480	mm
Uzunluk /Length	910	740	mm
Yükseklik / Height	870	830	mm
Ambalaj ebadı /Package dimensions	920 x 620 x 150	740 x 480 x 120	mm
Ağırlık / Weight	16.20	8	kg



NL 104



NL 105







NL-106 Paket Taşıyıcısı

	NL-106	
Kapasite / Capacity	350	kg
Genişlik / Width	610	mm
Uzunluk /Length	910	mm
Yükseklik / Height	960	mm
Ambalaj ebadı /Package dimensions	920 x 620 x 150	mm
Ağırlık / Weight	20	kg



NL-109 Platform El Arabası

	NL-109	
Kapasite / Capacity	500	kg
Platform ölçüsü /Platform size	1200 x 800	mm
Platform yüksekliği / Platform height	270	mm
Teker ölçüsü /Wheel size	200 x 45	mm
Ambalaj ebadı /Package dimensions	1200 x 800 x 1170	mm
Ağırlık / Weight	38	kg

- Görsel tanımı: çelik ağ korumalı el arabası.
- Paneller isteğe göre yer değiştirebilir.
- Her açıdan ve taraftan yüklenebilinir.
- 2 Teker yön verme amacı ile dönebilmekte ve fren tertibatı bulunmakta, diğerleri sabit lastikten oluşup çapları 200mm'dir.
- Demonte olarak gönderilmekte. Montajı son derece kolaydır.



NL-111 Paket Taşıyıcısı

	NL-111	
Kapasite / Capacity	200	kg
Platform genişliği / Platform Width	350	mm
Toplam Genişlik / Total Width	540	mm
Uzunluk /Length (L)	200	mm
Yükseklik / Height(H)	1170	mm
Tekerlek çapı / Caster wheel dia.	260	mm
Ağırlık / Weight	14.8	kg



NL-112 Paket Taşıyıcısı

	NL-112	
Kapasite / Capacity	200	kg
Platform genişliği / Platform Width	220	mm
Toplam Genişlik / Total Width	530	mm
Uzunluk /Length (L)	220	mm
Yükseklik / Height(H)	1050	mm
Tekerlek çapı / Caster wheel dia.	260	mm
Ağırlık / Weight	11	kg



NL-116 Paket Taşıyıcısı

	NL-116	
Kapasite / Capacity	150	kg
Platform genişliği / Platform Width	450	mm
Toplam Genişlik / Total Width	500	mm
Uzunluk /Length (L)	260	mm
Yükseklik / Height(H)	1170	mm
Tekerlek çapı / Caster wheel dia.	260	mm
Ağırlık / Weight	9.7	kg



NL-117 Paket Taşıyıcısı

	NL-117	
Kapasite / Capacity	150	kg
Platform genişliği / Platform Width	350	mm
Toplam Genişlik / Total Width	550	mm
Uzunluk /Length (L)	270	mm
Yükseklik / Height(H)	1190	mm
Tekerlek çapı / Caster wheel dia.	260	mm
Ağırlık / Weight	16.7	kg



NL-123 NL-124 Tüp Taşıma Arabası

	NL-123	NL-124	
Tüp Kapasite /Cylinder Capacity	10/20/40/50	40/50	lt
Tüp Çapı /Cylinder Diameter	140-250	210-250	mm
Tekerlek / Wheel	ø200x50	ø400x50	mm
Ölçüler /Overall size	660x600x1360	700x700x1380	mm
Ağırlık / Weight	17	45	kg
Tip / Type	Tek tüp	Çift tüp	



NL-125 Tüp Muhafaza Standı

	NL-125	
Tüp Kapasite /Cylinder Capacity	40	lt
Tüp Çapı /Cylinder Diameter	230	mm
Toplam boyut /Overall size	540x360x1000	mm
Ağırlık / Weight	18	kg



NL-HSJ Ceraskal



	NL-HSJ 1/4	NL-HSJ 1/2	NL-HSJ 1	NL-HSJ 2	NL-HSJ 3	NL-HSJ 5	NL-HSJ 10	NL-HSJ 20	
Kaldırma kapasitesi / Capacity	1/ 4	1/ 2	1	2	3	5	10	20	ton
Standart yükseklik / Standard lift	3m/ 5m	3m/ 5m	3m/ 5m	3m/ 5m	5m	5m	5m	5m	m
Test yükü / Runnig test load	306	750	1500	3000	4500	6250	12500	25000	kg
Kapalı yükseklik /	230	271	400	420	620	704	720	1000	mm
Max yükte harcanan kuvvet /	215	221	304	314	343	382	392	392	N
Zincir donam sayısı /	1	1	1	2	2	2	4	8	ad
Yük zinciri ölçüsü /	4	6	6	6	8	10	10	10	mm
İlave her metre için ağırlık /	0.4	1.7	1.7	2.5	3.7	5.3	9.7	19.4	kg
Ağırlık / Weight	3.5	9	11	15	24	39	72	160	kg

• Galvaniz zincir

NL-GT Zincirli Şaryo



		NL-GT 0.5	NL-GT 1	NL-GT 2	NL-GT 3	NL-GT 5	NL-GT 10	NL-GT 20	
Kapasitesi / Capacity		0.5	1	2	3	5	10	20	t
Çalışma yüksekliği / Running height		2.5	2.5	2.5	3	3	3	3	m
Test yükü / Test load		7.35	14.71	29.42	44.13	61.29	122.58	245.7	kN
Min. radyus açısı / Min. radius of cureve		0.8	0.9	1.0	1.2	1.3	2.0	3.5	m
Harcanan güç /Chain pull to lift full load		25	50	90	96	140	240	240	N
Ölçüler /Dimensions	A	272	336	350	358	373	52	98	mm
	B	194	236	268	322	362	424	555	mm
	C	176	208	247	295	342	396	498	mm
	H	95	111	134	157	185	190	233	mm
	F	1.5-3	1.5-3	1.5-3	2-3.5	2-3.5	2-3.5	2-3.5	mm
	S≥	28	28	30	32	36	40	45	mm
Putrel ölçüsü /I-beam commended		50-152	64-203	88-203	100-203	Г14-203	124-230	136-305	mm
Ağırlık / Weight		9	13	18	29	42	94	174	kg

NL-PT Şaryo



		NL-PT 0.5	NL-PT 1	NL-PT 2	NL-PT 3	NL-PT 5	
Kapasitesi / Capacity		0.5	1	2	3	5	t
Test yükü / Test load		7.35	14.71	29.42	44.13	61.29	kN
Min. radyus açısı / Min. radius of curve		0.8	0.9	1.0	1.2	1.3	m
Ölçüler /Dimensions	A	240	310	325	345	360	mm
	B	194	236	268	322	362	mm
	C	176	208	247	295	342	mm
	H	95	111	134	157	185	mm
	F	1.5-3	1.5-3	1.5-3	2-3,5	2-3.5	mm
	S≥	28	28	30	32	36	mm
Putrel ölçüsü /I-beam commended		50-203	60-203	88-203	100-203	114-203	mm
Ağırlık / Weight		5.5	9.5	14.5	24.5	37.4	kg

Pim Kesme Makinası

Sipariş Kodu
MPKY500



- İşlem sırasında taşlama çanağı ölçüleri değişmeden tamir edilebilir
- Kayışın sıkılığı otomatik olarak ayarlanabilir ve kontrol edilebilir.
  (Daha yüksek direnç, daha sıkı kayış)
- Kesme hassasiyeti kesici lamina parçasının kalınlığına göre değişmemektedir
- Hızlı kilit işlem parçasını yerinde tutar
- Açma kapama çok hızlıdır
- Minimum kesme uzunluğu 60mm'dir



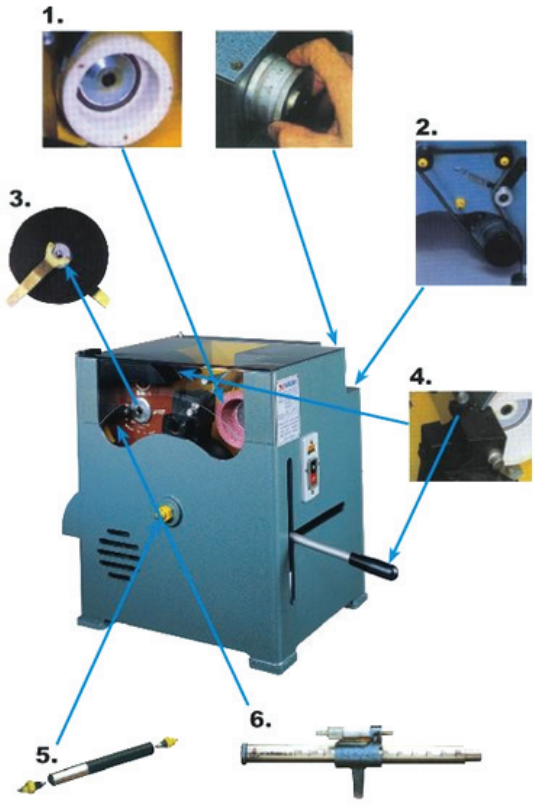
Kilitleme için



Kesme ve taşlama için

Teknik Bilgi

Kesme Hassayiyeti	25m/mø x 300m/m±0.01
Aç› Hassayiyeti	25m/mø x 90°±0.01
Kesici Lamina	1m/m t x 180m/mø (Delik) 31.8m/mø
Ta•lama Çana□›	WA46K x 100 x 50 x 20
R.P.M.	3600
Motor	3/4HP 110/220V 1 VE FAZ
Kapasite	VEC-300G 300mm VEC-500G 500mm VEC-600G 600mm
A□›rl›k (Yakla•›k)	105.5kg (107kg) (110kg)
Makina Ölçüsü	B430m/m x E360m/m xY500m/m



Ölçme çubuğu

Ölçüm uzunlukları
300mm için VEC-300G
500mm için VEC-500G
600mm için VEC-600G
Ölçme çubuğu boyu dışında bütün özellikler aynıdır

Universal Bileme Makinası

Sipariş Kodu
U2

HSS ve Karbür'den üretilmiş negatif açılı, radyuslu dahil çok çeşitli kesici uçların taşlanmasında kullanılır.
Pozisyonlu Universal indeks kafası ile herhangi bir açı ve şeklin taşlanmasını sağlar.
Freze, matkap, kalem vs. taşlanabilmesi için 100-3600 devir arası çalıştırılabilir.
Özel aparatların kurulumu ve kullanımı oldukça basittir.



Sipariş Kodu
U2-E
U2-T
U2-L
U2-D‡100
U2-B Kayış
U2-G Çanak Taş
U2-R ‡200
U2-R-1 ‡400

Max. Taşlama Çapı ø
Tepe Açısı 0°-180°
Kanal Açısı 0°-45°
Negatif Açı 0°-26°
Taşlama Mili 3600 Rpm
Çanak Taşı: 100x50x20
Motor 1/3 HP220V50/90HZ
Net Ağırlık 58kg
Makina Ölçüleri BxExY 45x45x35cm
Kutu Ölçüleri BxExY 55x45x47cm

Standart Aksesuarlar

Taş düzeltme elması	: 1 Parça
Taş flanşı	: 1 Parça
Çanak taş	: 1 Parça (U2-G)
Pens ø4,6,8,10,12mm	: 5Parça
Merkezleme çubuğu	: 1 Parça
Tahrik kayışı	: 1 Parça
Kilitleme pimi	: 1 Parça
Aletler	: 1 Set

Opsiyonel Aksesuarlar

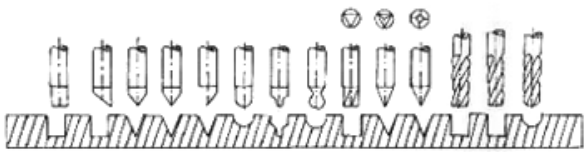
Matkap bileme aparatı U2-T
Frezeme bileme aparatı U2-E
Takım taşlama aparatı U2-L
Çanak taş balans standı
LBS-100
Elmas çanak taş U2D
Suni reçineli ve CBN çanak taş U2-R
Extra pensler 1, 2, 2,5, 3, 5, 7, 9, 16, 18, 20, 25mm
ve 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5%8"



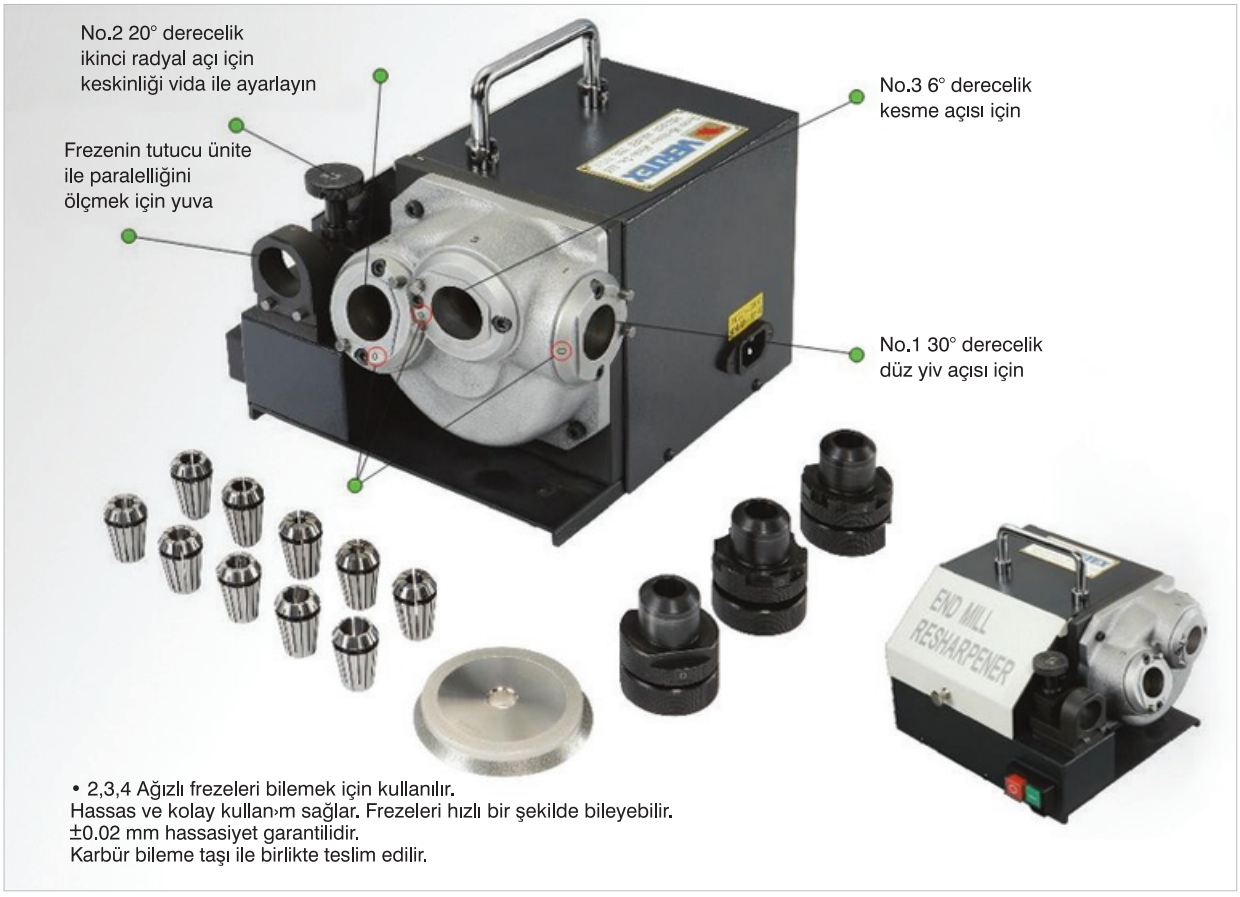


Sipariş Kodu	Ölçü	Tane Büyüklüğü
AT20-90°	100Çx10Ex5Ux20Yx22T	‡100
AT20-90°	100Çx8Ex2Xx20Y	‡200
AT20-90°	100Çx8Ex2Xx20Y	‡400

Zımba ve Freze Uç Profilleri



Freze Bileme Makinası

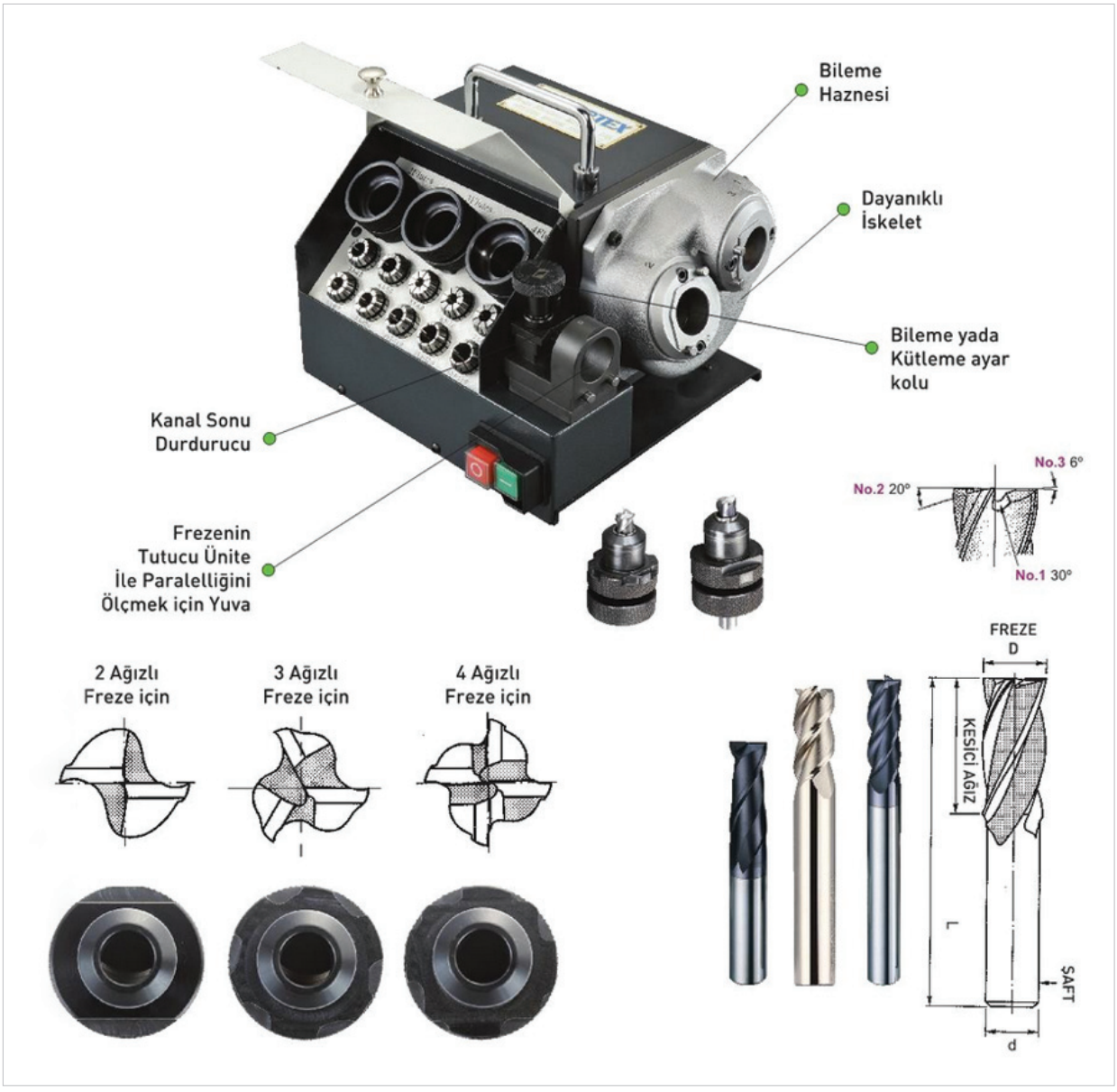


• 2,3,4 Ağızlı frezeleri bilemek için kullanılır.
Hassas ve kolay kullan›m sağlar. Frezeleri hızlı bir şekilde bileyebilir.
±0.02 mm hassasiyet garantilidir.
Karbür bileme taşı ile birlikte teslim edilir.

Teknik Bilgi

Sipariş Kodu	VEG-13A	VEG-25A
Freze Çap Aralığı	ø4 ~ x ø13mm	ø12 ~ x ø25mm
Motor	450W	1000W
H›z	6000rpm	4300rpm
Güç	AC-110 veya 220 1PH 50/60HZ	AC-110 veya 220 1PH 50/60HZ
Aksiyal Açı	No.1 30° Derecelik düz yiv açısı No.2 20° Derecelik ikinci radyal açı No.3 6° Derecelik kesme açı	No.1 30° Derecelik düz yiv açısı No.2 20° Derecelik ikinci radyal açı No.3 6° Derecelik kesme açı
Standart Aksesuarlar	Alaşımlı Çelik Pens ER-20 Pens: Ø4, 5, 6, 7, 8, 9, 10, 11, 12, 13 10 adet/set, Anahtar: 1 adet SDC 270 x1,ø4 - ø6mm için SDC 270 x1,ø8 - ø13mm için Kare Tip 4 Ağızlı freze için 1 Set Hex. Tip 3 Ağızlı freze için 1 Set Paralel Tip 2 Ağızlı freze için 1 Set	Alaşımlı Çelik Pens ER-40 Pens: Ø12, 16, 18, 20, 22, , 25mm 6 adet/set, Anahtar: 1 adet SDC 150 x1,ø12 - ø25mm için SDC 270 x1,ø8 - ø13mm için Kare Tip 4 Ağızlı freze için 1 Set Hex. Tip 3 Ağızlıfreze için 1 Set Paralel Tip 2 Ağızlı freze için 1 Set
Paket Ölçüleri	320x260x300mm	365x293x345mm
Ağırlık (Kg)	17	31

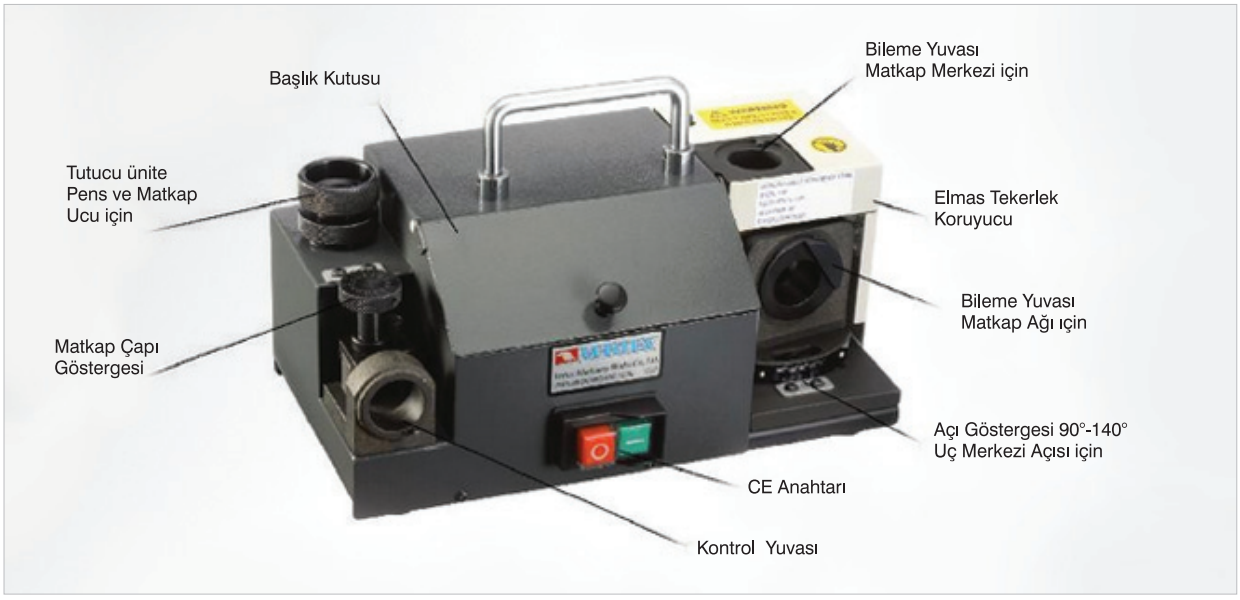
Hassas Freze Bileme Makinası Yedek Taşları



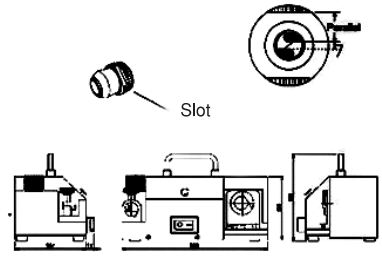
Opsiyonel Aksesuar * Her tutucu üzerine 2.3 ve 4 konumları işaretlenmiştir

Sipariş Kodu	Bileme Taşı	Kullanılacağı Malzeme	Ağırlık (Kg)
VEG-13BS	CBN 300X1 (4 ~ 6mm için)	H.S.S	0.35
VEG-13BL	CBN 270X1 (7 ~ 13mm için)	H.S.S	0.35
VEG-13DS	CBN 270X1 (4 ~ 6mm için)	Karbür	0.35
VEG-13DL	CBN 270X1 (7 ~ 13mm için)	Karbür	0.35
VEG-25BS	CBN 150X1 (12 ~ 25mm için)	H.S.S	-
VEG-25DS	CBN 150X1 (12 ~ 25mm için)	Karbür	-

Matkap Bileme Makinası

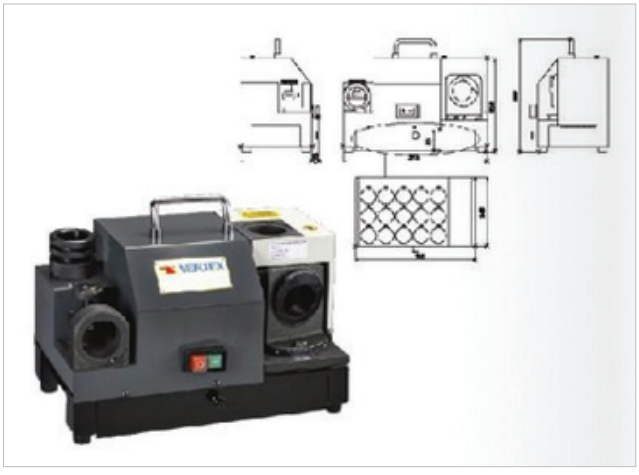


- Matkap uçlarını bilemek için kullanılır.
- Hassas ve kolay kullanım sağlar. Matkap uçları hızlı bir şekilde bilenebilir.
- ±0.05mm hassasiyet garantilidir.
- Güçlü motoru 2 saat çalışmayı destekler
- Karbür ve HSS dahil her türlü matkap için uygundur
- Karbür bileme taşı ile birlikte teslim edilir.



Sipariş Kodu	Matkap Çapı	Uç Açısı	Güç Kaynağı	Motor Gücü	Bileyici	Net Ağırlık (Kg)	Ölçüler
VDG-13A	Ø2.0 - ø13.0	90°-140°	AC-110 veya 220 1PH	5100Rpm	SDC ‡200	AC-110:9.7kg AC-220:9.7kg	W282xD185xH110m/m
VDG-25	Ø12 - ø25	100°-136°	AC-110 veya 220 1PH	5300Rpm	SDC ‡200	AC-110:9.7kg AC-220:9.7kg	W380xD240xH200m/m

Sipariş Kodu	Bilenecek Malzeme	Tane Büyüklüğü
VDG-13B	HSS	CBN200
VDG-13D	Karbür	SDC200
VDG-20B	HSS	CBN200
VDG-20D	Karbür	SDC200
VDG-25B	HSS	CBN200
VDG-25D	Karbür	SDC200



Opsiyonel	ER-20	ER-40 Özel Ölçüleri
Özel Pens Ölçüleri	ø3.5, 4.5, 5.5, 6.5, 7.5, 8.5, 9.5, 10.5, 11.5, 12.5	ø8, 9, 10, 11, 26, 27, 28, 29, 30

VDG-25 Ø30 mm'ye kadar kullanılabilir. Bunun için lütfen opsiyonel pensleri tercih ediniz.

Pah Kırma Makinası

Sipariş Kodu
VCF-500S
VCF-600
VCF-700

PRATİK

A. Flap disk kullanılır
B. Çelik ve sertleştirilmiş dökme demir için uygundur
C. Yumuşak demir ve aluminyum için uygun değildir
D. Düzensiz parçalarda kullanılırsa oluşan yüzey güçsüz olabilir



VCF-500S
Aksesuar : Flap disk 1650x22Ø

500S: Flap disk kullanılır
Sert ve rijit malzemelerde uygundur.

600: Kolayca taşınır ve
ağır parçaların işlenmesini kolaylaştırır

700: Taşınabilirdir. Demir ve demir alaşımları özellikle
çelik ve dökme demir için uygundur

Kare şekilli Tungsten Karbür uç olan ISO1203SPUN kullanılır.
Basitleştirilmiş kullanımı vasıfsız elemanlar için uygundur



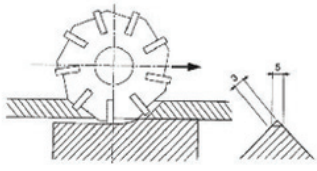
VCF-600
Aksesuar : Uç SPMW 321 PMW 090308

Teknik Bilgi

Gerekli Alan	VCF-500S	VCF-600	VCF7600
	330x410	500x440/m	500x220/m
Ağırlık (kg)	26	3.7	14
Voltaj	3Ø220V ve 1Ø110V/220V 3Ø380V/415V 50HZ/60HZ		
Motor Çıkışı	0.7Kw		0.37Kw
Hız	3500rpm	12000rpm	3500rpm
Ray Yuvası Uzunluğu	320m/m	100m/m	200m/m
Pah Yüksekliği	0-3m/m	0-3m/m	0-7m/m
Pah Açısı	45°	45°	15°-45° Ayarlanabilir



VCF-700
Aksesuar : Freze



Hidrolik Kılavuz Çekme Makinası

- M5 - M24 Kılavuz çekme kapasitesi
- Yüksek tork ve hızı birarada sağlayan çift kademeli şanzıman sistemi
- Kolay kullanım ve ergonomik yapı
- Güçlü konstrüksiyon
- Piston sertlik ayarı
- Devir ayarı
- 2050 mm yarıçapında çalışma alanı
- Hızlı kılavuz değiştirme özelliği
- Dikey, yatay kılavuz çekebilme özelliği
- Taşınması zor, büyük makina gövdelerine kılavuz çekebilme
- Farklı uygulama alanları (Raybalama,perçinleme, kalıpçı taşlama, havşalama, pafta çekme, çoklu kılavuz çekme vs...)



Sipariş Kodu	Kılavuz Kapasitesi	Güç (kw)	Hız (rpm)	Çalışma Basıncı (bar)	Ağırlık (kg)
MHKC-516	M5-M16	3	1.Kademe:0-150 2.Kademe:0-600	60-100	200
MHKC-524	M5-M24	3	1.Kademe:0-150 2.Kademe:0-600	60-100	225
MHKC-536	M5-M36	5.5	Kademe:0-100	60-120	250

Küçük Kol Tipi Havalı Kılavuz Çekme Makinası

- Havalı Kılavuz Çekme Aparatı
- Paralel Kol
- Masa Montaj Kolu
- Hava şartlandırıcı
- 6 Adet Kılavuz Adaptörü
- Radyal Vinç Kolu
- Tabla dahil değildir
- Hava Basıncı 6-8 kg/cm3
- Vat-08/12 Serisi 5HP kompresör ile çalışır
- Vat-16/20 Serisi 10HP kompresör ile çalışır



Sipariş Kodu	Kapasite	Devir (rpm)	Ağırlık (kg)	Çalışma Mesafesi
VAT-1408	M2-M8 TC-312	700	18.2	Rmax 1400mm Rmin 200mm
VAT-1412	M3-M12 TC-312	400	18.1	Rmax 1400mm Rmin 200mm
VAT-1416	M3-M16 TC-820	250	24.6	Rmax 1400mm Rmin 200mm

VRTW İndüksiyonlu Sert Krom Kaplı Çelik Mil



CK45 malzemeli, sert krom kaplamalı, parlak yüzeyli ve indüksiyonla (58-60 HRC) sertleştirilmiş miller, hidrolik silindiri ya da lineer rulman sistemleri için kolon mili olarak da kullanılırlar. Standart boylarda 1 metrelik özel ambalajları ile stoklarımızdan ve ayrıca 2 metreden 17 metreye kadar tek mil halinde alım yapabilirsiniz. Sipariş esnasında istenen boy tipini belirtiniz (standart değilse).

Malzeme: CK45
İndüksiyonlu Dış Yüzey: > 2 mm
Sertlik: 58-60 HRC
Krom Kaplama Kalınlığı: Min. 20 Mikron
Krom Kaplama Sertliği: 850 - 1150 Vickers
Çap Toleransı: ISO f7
Doğrusallık: 0,05 / 1000 mm
Yüzey Pürüzlülüğü: Ra 0,20 / 0,25 Mikron

VRTW Sert Krom Kaplı Çelik Mil



CK45 malzemeli, sert krom kaplamalı ve parlak yüzeyli miller hidrolik silindiri ya da kolon mili olarak kullanılabilir niteliktedirler. Standart boylarda 1 metrelik özel ambalajları ile stoklarımızdan ve ayrıca 2 metreden 17 metreye kadar tek mil halinde alım yapabilirsiniz. Sipariş esnasında istenen boy tipini belirtiniz (standart değilse).

Malzeme: CK45
Krom Kaplama Kalınlığı: Min. 20 Mikron
Krom Kaplama Sertliği: 850 - 1150 Vickers
Çap Toleransı: ISO f7
Doğrusallık: 0,05 / 1000 mm
Yüzey Pürüzlülüğü: Ra 0,20 / 0,25 Mikron

Sipariş Örneği BLK/Kod

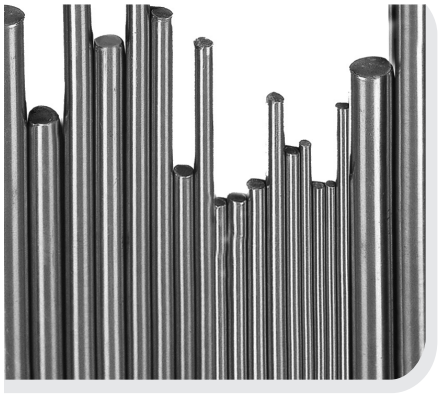
Referans	Çap	Boy	Ağırlık / 1 Metre
008	8 mm	1 Metre	0.390 kg
010	10 mm		0.620 kg
012	12 mm		0.890 kg
013	13 mm		1.040 kg
014	14 mm		1.210 kg
015	15 mm		1.390 kg
016	16 mm		1.580 kg
017	17 mm		1.780 kg
018	18 mm		2.000 kg
019	19 mm		2.220 kg
020	20 mm		2.460 kg
022	22 mm		2.980 kg
024	24 mm		3.550 kg
025	25 mm		3.927 kg
028	28 mm		4.927 kg
030	30 mm		5.650 kg
032	32 mm		6.440 kg
035	35 mm		7.700 kg
036	36 mm		8.140 kg
038	38 mm		9.080 kg
040	40 mm		10.06 kg
042	42 mm		11.09 kg
045	45 mm		12.72 kg
047	47 mm		13.89 kg
048	48 mm		14.48 kg

Referans	Çap	Boy	Ağırlık / 1 Metre
050	50	1 Metre	15.71 kg
055	55		19.00 kg
056	56		19.71 kg
060	60		22.63 kg
063	63		24.94 kg
065	65		26.55 kg
070	70		30.78 kg
075	75		35.34 kg
080	80		40.21 kg
085	85		45.40 kg
090	90		50.90 kg
095	95		56.71 kg
100	100		62.83 kg
105	105		69.27 kg
110	110		76.04 kg
115	115		83.10 kg
120	120		90.48 kg
125	125		96.25 kg
130	130		104.10 kg
140	140		120.74 kg
150	150		138.60 kg
160	160		157.70 kg
180	180		199.59 kg
200	200		246.59 kg

Referans	Çap		Boy	Ağırlık / 1 Metre
C01	½ inç	12.700 mm	1 Metre	0.99 kg
C02	⅝ inç	18.875 mm		1.55 kg
C03	¾ inç	19.050 mm		2.24 kg
C04	1′ inç	25.400 mm		4.05 kg
C05	1′ ¼ inç	31.750 mm		6.34 kg
C06	1′ ⅜ inç	37.975 mm		7.69 kg
C07	1′ ½ inç	38.100 mm		9.12 kg
C08	1′ ¾ inç	44.450 mm		12.42 kg
C09	2′ inç	50.800 mm		16.22 kg
C10	2′ ¼ inç	57.150 mm		20.52 kg
C11	2′ ½ inç	63.500 mm		25.34 kg
C12	2′ ¾ inç	69.850 mm		30.65 kg
C13	3′ inç	76.200 mm		36.49 kg
C14	3′ ¼ inç	82550 mm		42.82 kg
C15	3′ ½ inç	88.900 mm		49.65 kg
C16	4′ inç	101.600 mm		64.86 kg
C17	4′ ½ inç	107.950 mm		73.22 kg
C18	4′ ¾ inç	114.300 mm		82.09 kg
C19	5′ inç	127.000 mm		99.35 kg

MCC Cıva Çeliği

Mat.: 1.1213 (Cf 53) ≃ 62±2 HRC / Induction



DIN 17006' ya göre : 115 Cr V3
Kimyasal Analiz : % C1,15 - CR 0,70 - V 0.10

Kullanım Alanları

Civa çelikleri helezon ve diş matkapları, Klavuzlar, Raybalar, Havşalar, Punta matkapları, Raspalar, Delik zımbaları, Metal testereler, Çekme zımbası ve her türlü zımba, Tırnak ve bu gibi aletlerin yapımına elverişli su ile sertleştirilen bir takım çeliğidir.

Sıcak Şekil Verme ve Isıl İşlem

Dövme Tavı	:	1050 - 800 °C
Yumuşatma Tavı	:	700 - 720 °C
Tav Sertliği	:	Azami 280 HB
Gerilim Giderici Tavlama	:	600 °C
Sertleştirme için ön Isı	:	650 °C
Sertleştirme (su verme)	:	12 mm'ye kadar 780 - 800 °C yağda 12-20 mm'ye kadar 780 - 790 °C suda 20-40 mm'ye kadar 790 - 800 °C suda 40-60 mm'ye kadar 800 - 820 °C suda
Meneviş	:	180-200 °C - 1 saat/25 mm.

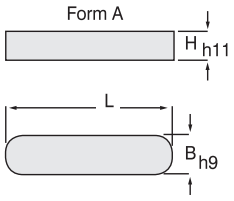
Şipariş Kodu	Ø ÇAP mm	Kg/m
MCC/002	2 mm	0,040 kg
MCC/025	2,5 mm	0,050 kg
MCC/003	3 mm	0,056 kg
MCC/035	3,5 mm	0,076 kg
MCC/004	4 mm	0,100 kg
MCC/045	4,5 mm	0,125 kg
MCC/005	5 mm	0,154 kg
MCC/055	5,5 mm	0,187 kg
MCC/006	6 mm	0,222 kg
MCC/065	6,5 mm	0,261 kg
MCC/007	7 mm	0,302 kg
MCC/075	7,5 mm	0,350 kg
MCC/008	8 mm	0,395 kg
MCC/085	8,5 mm	0,445 kg
MCC/009	9 mm	0,500 kg
MCC/095	9,5 mm	0,556 kg
MCC/100	10 mm	0,617 kg
MCC/105	10,5 mm	0,680 kg
MCC/110	11 mm	0,750 kg
MCC/115	11,5 mm	0,815 kg
MCC/120	12 mm	0,888 kg
MCC/125	12,5 mm	0,963 kg

Şipariş Kodu	Ø ÇAP mm	Kg/m
MCC/130	13 mm	1,002 kg
MCC/135	13,5 mm	1,124 kg
MCC/140	14 mm	1,208 kg
MCC/145	14,5 mm	1,296 kg
MCC/150	15 mm	1,387 kg
MCC/160	16 mm	1,578 kg
MCC/170	17 mm	1,782 kg
MCC/180	18 mm	1,998 kg
MCC/190	19 mm	2,226 kg
MCC/200	20 mm	2,466 kg
MCC/210	21 mm	2,719 kg
MCC/220	22 mm	2,984 kg
MCC/230	23 mm	3,262 kg
MCC/240	24 mm	3,550 kg
MCC/250	25 mm	3,853 kg
MCC/260	26 mm	4,168 kg
MCC/270	27 mm	4,495 kg
MCC/280	28 mm	4,824 kg
MCC/300	30 mm	5,550 kg
MCC/320	32 mm	6,313 kg
MCC/350	35 mm	7,550 kg
MCC/400	40 mm	9,865 kg

VRTW

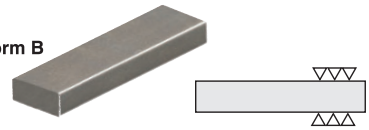
Düz Kama DIN 6885 - A





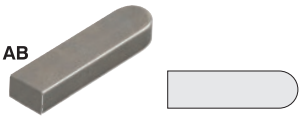
DIN 6885 - B

Form B



DIN 6885 - AB

Form AB



Form A Kamaları standart olarak ekonomik fiyatlarla stoklarımızdan temin edebilirsiniz.
Form B ve Form AB Kamalar isteğe göre tedarik edilir.
Tüm Düz Kamalarımız DIN 6885 normuna uygun üretilmektedir.

Malzeme: CK45
Yüzey Pürüzlülüğü: Ra 0.36 - Rt. 2.6
Çekme Dayanımı (N / mm2): 850
Akma Dayanımı (N / mm2): 750

Sipariş Örneği BLK/Kod

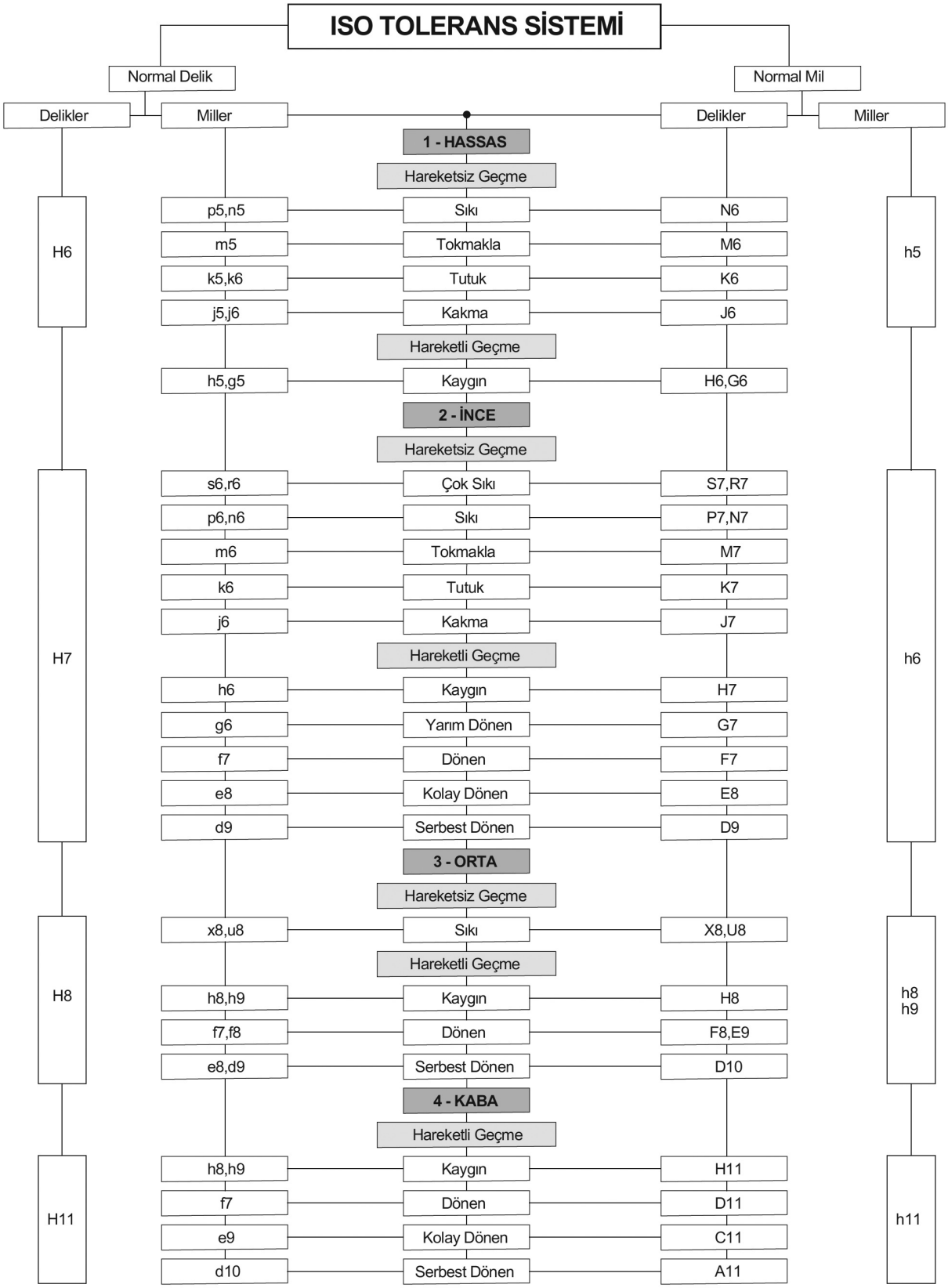
Sipariş Kodu	B (mm)	H (mm)	L (mm)
GDKA.0202006	2	2	6
GDKA.0202008			8
GDKA.0202010			10
GDKA.0202012			12
GDKA.0202014			14
GDKA.0202015			15
GDKA.0202016			16
GDKA.0202018			18
GDKA.0202020			20
GDKA.0202022			22
GDKA.0202025			25
GDKA.0303006	3	3	6
GDKA.0303008			8
GDKA.0303010			10
GDKA.0303012			12
GDKA.0303014			14
GDKA.0303015			15
GDKA.0303016			16
GDKA.0303018			18
GDKA.0303020			20
GDKA.0303022			22
GDKA.0303024			25
GDKA.0303025			26
GDKA.0303026			30
GDKA.0303030			10
GDKA.0404010	4	4	12
GDKA.0404012			14
GDKA.0404014			15
GDKA.0404015			16
GDKA.0404016			18
GDKA.0404020			20
GDKA.0404024			24
GDKA.0404025			25
GDKA.0404030			26
GDKA.0404033			30
GDKA.0404035			33
GDKA.0404040			35
GDKA.0505010	5	5	40
GDKA.0505012			10
GDKA.0505014			12
GDKA.0505015			14
GDKA.0505016			15
GDKA.0505018			16
GDKA.0505020			18
GDKA.0505022			20
GDKA.0505024			24
GDKA.0505025			25
GDKA.0505028			28
GDKA.0505030			30
GDKA.0505032			32
GDKA.0505035			35
GDKA.0505040			40
GDKA.0505045			45
GDKA.0505050			50
GDKA.0505060			60

Sipariş Kodu	B (mm)	H (mm)	L (mm)
GDKA.0606010	6	6	10
GDKA.0606012			12
GDKA.0606014			14
GDKA.0606015			15
GDKA.0606016			16
GDKA.0606020			20
GDKA.0606022			22
GDKA.0606025			25
GDKA.0606028			28
GDKA.0606030			30
GDKA.0606032			32
GDKA.0606035			35
GDKA.0606036			36
GDKA.0606040			40
GDKA.0606045			45
GDKA.0606050			50
GDKA.0606055			55
GDKA.0606060			60
GDKA.0807015	8	7	15
GDKA.0807016			16
GDKA.0807018			18
GDKA.0807020			20
GDKA.0807022			22
GDKA.0807025			25
GDKA.0807028			28
GDKA.0807030			30
GDKA.0807032			32
GDKA.0807033			33
GDKA.0807035			36
GDKA.0807036			40
GDKA.0807040			45
GDKA.0807045			50
GDKA.0807050			55
GDKA.0807055			60
GDKA.0807060			65
GDKA.0807065			70
GDKA.0807070			75
GDKA.0807075			80
GDKA.0807080			85
GDKA.0807085			90
GDKA.0807090			100
GDKA.0807100			110
GDKA.0807110			120
GDKA.0807120	10	8	20
GDKA.1008020			22
GDKA.1008022			25
GDKA.1008025			30
GDKA.1008030			35
GDKA.1008035			40
GDKA.1008040			45
GDKA.1008045			50
GDKA.1008050			55
GDKA.1008055			60
GDKA.1008060			65
GDKA.1008065			

Sipariş Kodu	B (mm)	H (mm)	L (mm)
GDKA.1008070	10	8	70
GDKA.1008075			75
GDKA.1008080			80
GDKA.1008085			85
GDKA.1008090			90
GDKA.1008100			100
GDKA.1008120			120
GDKA.1208020	12	8	20
GDKA.1208025			25
GDKA.1208030			30
GDKA.1208032			32
GDKA.1208035			35
GDKA.1208036			36
GDKA.1208040			40
GDKA.1208045			45
GDKA.1208050			50
GDKA.1208055			55
GDKA.1208060			60
GDKA.1208065			65
GDKA.1208070			70
GDKA.1208075			75
GDKA.1208080			80
GDKA.1208090			90
GDKA.1208100			100
GDKA.1208110			110
GDKA.1208120			120
GDKA.1409030	14	9	30
GDKA.1409035			35
GDKA.1409040			40
GDKA.1409045			45
GDKA.1409050			50
GDKA.1409060			60
GDKA.1409065			65
GDKA.1409070			70
GDKA.1409075			75
GDKA.1409080			80
GDKA.1409090			90
GDKA.1409100			100
GDKA.1409110			110
GDKA.1409120			120

Düz Kama DIN 6885 - B

GDKB.0404250	4	4	250
GDKB.0404500			500
GDKB.0505250	5	5	250
GDKB.0505500			500
GDKB.0606250	6	6	250
GDKB.0606500			500
GDKB.0807250	8	7	250
GDKB.0807500			500
GDKB.1008250	10	8	250
GDKB.1008500			500
GDKB.1208250	12	8	250
GDKB.1208500			500
GDKB.1409250	14	9	250
GDKB.1409500			500


ISO TOLERANS SİSTEMİ
Normal Delik
Normal Mil
Delikler
Miller
Delikler
Miller
1 - HASSAS
Hareketsiz Geçme
H6
p5,n5
Sıkı
N6
h5
m5
Tokmakla
M6
k5,k6
Tutuk
K6
j5,j6
Kakma
J6
Hareketli Geçme
h5,g5
Kaygın
H6,G6
2 - İNCE
Hareketsiz Geçme
H7
s6,r6
Çok Sıkı
S7,R7
h6
p6,n6
Sıkı
P7,N7
m6
Tokmakla
M7
k6
Tutuk
K7
j6
Kakma
J7
Hareketli Geçme
h6
Kaygın
H7
g6
Yarım Dönen
G7
f7
Dönen
F7
e8
Kolay Dönen
E8
d9
Serbest Dönen
D9
3 - ORTA
Hareketsiz Geçme
H8
x8,u8
Sıkı
X8,U8
h8
h9
Hareketli Geçme
h8,h9
Kaygın
H8
f7,f8
Dönen
F8,E9
e8,d9
Serbest Dönen
D10
4 - KABA
Hareketli Geçme
H11
h8,h9
Kaygın
H11
h11
f7
Dönen
D11
e9
Kolay Dönen
C11
d10
Serbest Dönen
A11

ISO ALIŞTIRMALARI SAPMA DEĞERLERİ

Normal Delik Sistemi (DIN 7154 T1)

Ölçüler µm cinsinden (1µ = 0,001 mm)

Anma ölçüleri aralıkları ....'den.....'e kadar (mm)	Delik H6	Miller p5	Miller n5	Miller k6	Miller j6	Miller h5	Delik H7	Miller s6	Miller r6	Miller n6	Miller m6	Miller k6	Miller j6	Miller h6	Miller g6	Miller f7
1...3	+ 6 0	+ 10 + 6	+ 8 + 4	+ 6 0	+ 4 - 2	0 - 4	+ 10 0	+ 20 + 14	+ 16 + 10	+ 10 + 4	+ 8 + 2	+ 6 0	+ 4 - 2	0 - 6	- 2 - 8	- 6 - 16
3...6	+ 8 0	+ 17 + 12	+ 13 + 8	+ 9 + 1	+6 -2	0 -5	+12 0	+ 27 + 19	+ 23 + 15	+ 16 + 8	+ 12 + 4	+ 9 + 1	+ 6 - 2	0 - 8	- 4 - 12	- 10 - 22
6...10	+ 9 0	+ 21 + 15	+ 16 + 10	+ 10 + 1	+ 7 -2	0 -6	+ 15 0	+ 32 + 23	+ 28 + 19	+ 19 + 10	+ 15 + 6	+ 10 + 1	+ 7 - 2	0 - 9	- 5 - 14	- 13 - 28
10...14	+ 11 0	+ 26 + 18	+ 20 + 12	+ 12 + 1	+ 8 -3	0 -8	+ 18 0	+ 39 + 28	+ 34 + 23	+ 23 + 12	+ 18 + 7	+ 12 + 1	+ 8 - 3	0 - 11	- 6 - 17	- 16 - 34
14...18																
18...24	+ 13 0	+ 31 + 22	+ 24 + 15	+ 15 + 2	+ 9 -4	0 -9	+ 21 0	+ 48 + 35	+ 41 + 28	+ 28 + 15	+ 21 + 8	+ 15 + 2	+ 9 - 4	0 - 13	- 7 - 20	- 20 - 41
24...30																
30...40	+ 16 0	+ 37 + 26	+ 28 + 17	+ 18 + 2	+ 11 -5	0 -11	+ 25 0	+ 59 + 43	+ 50 + 34	+ 33 + 17	+ 25 + 9	+ 18 + 2	+ 11 - 5	0 - 16	- 9 - 25	- 25 - 50
40...50																
50...65	+ 19 0	+ 45 + 32	+ 33 + 20	+ 21 + 2	+ 12 -7	0 -13	+ 30 0	+ 72 + 53	+ 60 + 41	+ 39 + 20	+ 30 + 11	+ 21 + 2	+ 12 - 7	0 - 19	- 10 - 29	- 30 - 60
65...80								+ 78 + 59	+ 62 + 43							
80...100	+ 22 0	+ 52 + 37	+ 38 + 23	+ 25 + 3	+ 13 -9	0 15	+ 35 0	+ 93 + 71	+ 73 + 51	+ 45 + 23	+ 35 + 13	+ 25 + 3	+ 13 - 9	0 - 22	- 12 - 34	- 36 - 71
100...120								+ 101 + 79	+ 76 + 54							
120...140	+ 25 0	+ 61	+ 45	+ 28	+ 14	0 -18	+ 40 0	+ 117 + 92	+ 88 + 63	+ 52	+ 40	+ 28	+ 14	0	- 14	- 43
140...160		+ 43	+ 27	+ 3	-11			+ 125 + 100	+ 90 + 65	+ 27	+ 15	+ 3	- 11	- 25	- 39	- 83
160...180								+ 133 + 108	+ 93 + 68							
180...200	+ 29 0	+ 70	+ 51	+ 33	+ 16	0 -20	+ 46 0	+ 151 + 122	+ 106 + 77	+ 60	+ 46	+ 33	+ 16	0	- 15	- 50
200...225		+ 50	+ 31	+ 4	-13			+ 159 + 130	+ 109 + 80	+ 31	+ 17	+ 4	- 13	- 29	- 44	- 96
225...250								+ 169 + 140	+ 113 + 84							
250...280	+ 32 0	+ 79 + 56	+ 57 + 34	+ 36 + 4	+ 16 -16	0 -23	+ 52 0	+ 190 + 158	+ 126 + 94	+ 66 + 34	+ 52 + 20	+ 36 + 4	+ 16 - 16	0 - 32	- 17 - 49	- 56 - 108
280...315								+ 202 + 170	+ 130 + 98							
315...355	+ 36 0	+ 87 + 62	+ 62 + 37	+ 40 + 4	+ 18 -18	0 -25	+ 57 0	+ 226 + 190	+ 144 + 108	+ 73 + 37	+ 57 + 21	+ 40 + 4	+ 18 - 18	0 - 36	- 18 - 54	- 62 - 119
355...400								+ 244 + 208	+ 150 + 114							
400...450	+ 40 0	+ 95 + 67	+ 67 + 40	+ 45 + 5	+ 20 - 20	0 - 27	+ 63 0	+ 272 + 232	+ 166 + 126	+ 80 + 40	+ 63 + 21	+ 45 + 5	+ 20 - 20	0 - 40	- 20 - 60	- 68 - 131
450...500								+ 292 + 252	+ 172 + 132							

Ölçüler µm cinsinden (1µ = 0,001 mm)

Anma ölçüleri aralıkları ....'den.....'e kadar (mm)	Delik H8	Miller x8	Miller u8	Miller h9	Miller e8	Miller d9	Delik H11	Miller h9	Miller h11	Miller d9	Miller c11	Miller a11
1...3	+ 14 0	+ 34 + 20	-	0 - 25	- 14 - 28	- 20 - 45	+ 60 0	0 - 25	0 - 60	- 20 - 45	- 60 - 120	- 270 - 330
3...6	+ 18 0	+ 46 + 28	-	0 - 30	- 20 - 38	- 30 - 60	+ 75 0	0 - 30	0 - 75	- 30 - 60	- 70 - 145	- 270 - 345
6...10	+ 22 0	+ 56 + 34	-	0 - 36	- 25 - 47	- 40 - 76	+ 90 0	0 - 36	0 - 90	- 40 - 76	- 80 - 170	- 280 - 370
10...14	+ 27 0	+ 67 + 40	-	0 - 43	- 32 - 59	- 50 - 93	+ 110 0	0 - 43	0 - 110	- 50 - 93	- 95 - 205	- 290 - 400
14...18		+ 72 + 45	-									
18...24	+ 33 0	+ 87 + 54	-	0 - 52	- 40 - 73	- 65 - 117	+ 130 0	0 - 52	0 - 130	- 65 - 117	- 110 - 240	- 300 - 430
24...30		+ 97 + 64	+ 81 + 48									
30...40	+ 39 0	+ 119 + 80	+ 99 + 60	0 - 62	- 50 - 89	- 80 - 142	+ 160 0	0 - 62	0 - 160	- 80 - 142	- 120 - 280	- 310 - 470
40...50		+ 136 + 97	+ 109 + 70								- 130 - 290	- 320 - 480
50...65	+ 46 0	+ 168 + 122	+ 133 + 87	0 - 74	- 60 - 106	- 100 - 174	+ 190 0	0 - 74	0 - 190	- 100 - 174	- 140 - 330	- 340 - 530
65...80		+ 192 + 146	+ 148 + 102								- 150 - 340	- 360 - 550
80...100	+ 54 0	+ 232 + 178	+ 178 + 124	0 - 87	- 72 - 126	- 120 - 207	+ 220 0	0 - 87	0 - 220	- 120 - 207	- 170 - 390	- 380 - 600
100...120		+ 264 + 210	+ 198 + 144								- 180 - 400	- 410 - 630
120...140	+ 63 0	+ 311 + 248	+ 233 + 170	0 -100	- 85 - 148	- 145 - 245	+ 250 0	0 - 100	0 - 250	- 145 - 245	- 200 - 450	- 460 - 710
140...160		+ 343 + 280	+ 253 + 190								- 210 - 460	- 520 - 770
160...180		+ 373 + 310	+ 273 + 210								- 230 - 480	- 580 - 830
180...200	+ 72 0	+ 422 + 350	+ 308 + 236	0 -115	- 100 - 172	- 170 - 285	+ 290 0	0 - 115	0 - 290	- 170 - 285	- 240 - 530	- 660 - 950
200...225		+ 457 + 385	+ 330 + 258								- 260 - 550	- 740 - 1030
225...250		+ 497 + 425	+ 356 + 284								- 280 - 570	- 820 - 1110
250...280	+ 81 0	+ 556 + 475	+ 396 + 315	0 -130	- 110 - 191	- 190 - 320	+ 320 0	0 - 130	0 - 320	- 190 - 320	- 300 - 620	- 920 - 1240
280...315		+ 606 + 525	+ 431 + 350								- 330 - 650	- 1050 - 1370
315...355	+ 89 0	+ 679 + 590	+ 479 + 390	0 -140	- 125 - 214	- 210 - 350	+ 360 0	0 - 140	0 - 360	- 210 - 350	- 360 - 720	- 1200 - 1560
355...400		-	+ 524 + 435								- 400 - 760	- 1350 - 1710
400...450	+ 97 0	-	+ 587 + 490	0 -155	- 135 - 232	- 230 - 385	+ 400 0	0 - 155	0 - 400	- 230 - 385	- 440 - 840	- 1500 - 1900
450...500		-	+ 637 + 540								- 480 - 880	- 1650 - 2050

Normal Mil Sistemi (DIN 7155 T1) (8.66)

Ölçüler µm cinsinden (1µ = 0,001 mm)

Anma ölçü aralıkları ....'den.....'e kadar (mm)	Mil h5	Delikler P6	Delikler N6	Delikler M6	Delikler J6	Delikler H6	Mil h6	Delikler S7	Delikler R7	Delikler N7	Delikler M7	Delikler K7	Delikler J7	Delikler H7	Delikler G7	Delikler F7
1...3	0 - 4	- 6 - 12	- 4 - 10	- 2 - 8	+ 2 - 4	+ 6 0	0 - 6	- 14 - 24	- 10 - 20	- 4 - 14	- 2 - 12	0 - 10	+ 4 - 6	+ 10 0	+ 12 + 2	+ 16 + 6
3...6	0 - 5	- 9 - 17	- 5 - 13	- 1 - 9	+ 5 - 3	+ 8 0	0 - 8	- 15 - 27	- 11 - 23	- 4 - 16	0 - 12	+ 3 - 9	+ 6 - 6	+ 12 0	+ 16 + 4	+ 22 + 10
6...10	0 - 6	- 12 - 21	- 7 - 16	- 3 - 12	+ 5 - 4	+ 9 0	0 - 9	- 17 - 32	- 13 - 28	- 4 - 19	0 - 15	+ 5 - 10	+ 8 - 7	+ 15 0	+ 20 + 5	+ 28 + 13
10...14	0 - 8	- 15 - 26	- 9 - 20	- 4 - 15	+ 6 - 5	+ 11 0	0 - 11	- 21 - 39	- 16 - 34	- 5 - 23	0 - 18	+6 -12	+ 10 - 8	+ 18 0	+ 24 + 6	+ 34 + 16
14...18																
18...24	0 - 9	- 18 - 31	- 11 - 24	- 4 - 17	+8 - 5	+13 0	0 - 13	- 27 - 48	- 20 - 41	- 7 - 28	0 - 21	+ 6 - 15	+ 12 - 9	+ 21 0	+ 28 + 7	+ 41 + 20
24...30																
30...40	0 - 11	- 21 - 37	- 12 - 28	- 4 - 20	+ 10 - 6	+ 16 0	0 - 16	- 34 - 59	- 25 - 50	- 8 - 33	0 - 25	+ 7 - 18	+ 14 - 11	+ 25 0	+ 34 + 9	+ 50 + 25
40...50																
50...65	0 - 13	- 26 - 45	- 14 - 33	- 5 - 24	+ 13 - 6	+ 19 0	0 - 19	-42 -72	-30 -60	- 9 - 39	0 - 30	- 9 - 21	+ 18 - 12	+ 30 0	+ 40 + 10	+ 60 + 30
65...80								-48 -78	-32 -62							
80...100	0 - 15	- 30 - 52	- 16 - 38	- 6 - 28	+16 - 6	+22 0	0 - 22	-58 -93	-38 -73	- 10 - 45	0 - 35	+ 10 - 25	+ 22 - 13	+ 35 0	+ 47 + 12	+ 71 + 36
100...120								-66 -101	-41 -76							
120...140	0 - 18	- 36	- 20	- 8	+ 18	+ 25	0 - 25	-77 -117	-48 -88	- 12	0	+ 12	+ 26	+ 40	+ 54	+ 83
140...160		- 61	- 45	- 33	- 7	0		-85 -125	-50 -90	- 52	- 40	- 28	- 14	0	+ 14	+ 43
160...180								-93 -133	-53 -93							
180...200	0 - 20	- 41	- 22	- 8	+ 22	+ 29	0 - 29	-105 -151	-60 -106	- 14	0	+ 13	+ 30	+ 46	+ 61	+ 96
200...225		- 70	- 51	- 37	- 7	0		-113 -159	-63 -109	- 60	- 46	+ 33	- 16	0	+ 15	+ 50
225...250								-123 -169	-67 -113							
250...280	0 - 23	- 47 - 79	- 25 - 57	- 9 - 41	+ 25 - 7	+ 32 0	0 - 32	-138 -190	-74 -126	- 14 - 66	0 - 52	+ 16 - 36	+ 36 - 16	+ 52 0	+ 69 + 17	+ 108 + 56
280...315								-150 -202	-78 -130							
315...355	0 - 25	- 51 - 87	- 26 - 62	- 10 - 46	+ 29 - 7	+ 36 0	0 - 36	-169 -226	-87 -144	- 16 - 73	0 - 57	+ 17 - 40	+ 39 - 18	+ 57 0	+ 75 + 18	+ 119 + 62
355...400								-187 -244	-93 -150							
400...450	0 - 27	- 55 - 95	- 27 - 67	- 10 - 50	+ 33 - 7	+ 40 0	0 - 40	-209 -272	-103 -166	- 17 - 80	0 - 63	+ 18 - 45	+ 43 - 20	+ 63 0	+ 83 + 20	+ 131 + 68
450...500								-229 -292	-109 -172							

Ölçüler µm cinsinden (1µ = 0,001 mm)

Anma ölçü aralıkları ....'den.....'e kadar (mm)	Mil h9	Delikler H8	Delikler H11	Delikler F8	Delikler E9	Delikler D10	Delikler C11	Mil h11	Delikler H11	Delikler D11	Delikler C11	Delikler A11
1...3	0 - 25	+ 14 0	+ 60 0	+ 20 + 6	+ 39 + 14	+ 60 + 20	+ 120 + 60	0 - 60	+ 60 0	+ 80 + 20	+ 120 + 60	+ 330 + 270
3...6	0 - 30	+ 18 0	+ 75 0	+ 28 10	+ 50 + 20	+ 78 + 30	+ 145 + 70	0 -75	+75 0	+ 105 + 30	+ 145 + 70	+ 345 + 270
6...10	0 - 36	+ 22 0	+ 90 0	+ 35 + 13	+ 61 + 25	+ 98 + 40	+ 170 + 80	0 -90	+90 0	+ 130 + 40	+ 170 + 80	+ 370 + 280
10...14	0 - 43	+ 27 0	+ 110 0	+ 43 + 16	+ 75 + 32	+ 120 + 50	+ 205 + 95	0 -110	+ 110 0	+ 160 + 50	+ 205 + 95	+ 400 + 290
14...18												
18...24	0 - 52	+ 33 0	+ 130 0	+ 53 + 20	+ 92 + 40	+ 149 + 65	+ 240 + 110	0 -130	+ 130 0	+ 195 + 65	+ 240 + 110	+ 430 + 300
24...30												
30...40	0 - 62	+ 39 0	+ 160 0	+ 64 + 25	+ 112 + 50	+ 180 + 80	+ 280 + 120 + 290 + 130	0 -160	+ 160 0	+ 240 + 80	+ 280 + 120 + 290 + 130	+ 470 + 310 + 480 + 320
40...50												
50...65	0 - 74	+ 46 0	+ 190 0	+ 76 + 30	+ 134 + 60	+ 220 + 100	+ 330 + 140 + 340 + 150	0 -190	+190 0	+290 +100	+ 330 + 140 + 340 + 150	+ 530 + 340 + 550 + 360
65...80												
80...100	0 - 87	+ 54 0	+ 220 0	+ 90 + 36	+ 159 + 72	+ 260 + 120	+ 390 + 170 + 400 + 180	0 -220	+ 220 0	+ 340 + 120	+ 390 + 170 + 400 + 180	+ 600 + 380 + 630 + 410
100...120												
120...140	0 - 100	+ 63	+ 250	+ 106	+ 185	+ 305	+ 450 + 200 + 460 + 210	0 -250	+ 250	+ 395	+ 450 + 200 + 460 + 210	+ 710 + 460 + 770 + 520
140...160		0	0	+ 43	+ 85	+ 145			0	+ 145		
160...180							+ 480 + 230				+ 480 + 230	+ 830 + 580
180...200	0 - 115	+ 72	+ 290	+ 122	+ 215	+ 355	+ 530 + 240 + 550 + 260	0 -290	+ 290	+ 460	+ 530 + 240 + 550 + 260	+ 950 + 660 + 1030 + 740
200...225		0	0	+50	+ 100	+ 170			0	+ 170		
225...250							+ 570 + 280				+ 570 + 280	+ 1110 + 820
250...280	0 - 130	+ 81 0	+ 320 0	+ 137 + 56	+ 240 + 110	+ 400 + 190	+ 620 + 300 + 650 + 330	0 -320	+ 320 0	+ 510 + 190	+ 620 + 300 + 650 + 330	+ 1240 + 920 + 1370 + 1050
280...315												
315...355	0 - 140	+ 89 0	+ 360 0	+ 151 + 62	+ 265 + 125	+ 440 + 210	+ 720 + 360 + 760 + 400	0 -360	+ 360 0	+ 570 + 210	+ 720 + 360 + 760 + 400	+ 1560 + 1200 + 1710 + 1350
355...400												
400...450	0 - 155	+ 97 0	+ 400 0	+ 165 + 68	+ 290 + 135	+ 480 + 230	+ 840 + 440 + 880 + 480	0 -400	+ 400 0	+ 630 + 230	+ 840 + 440 + 880 + 480	+ 1900 + 1500 + 2050 + 1650
450...500												

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Vakıfbank	İkitelli Şube (404)	IBAN TR95 0001 5001 5800 7301 1811 51

BANKA HESAP NUMARALARIMIZ DÖVİZ

Garanti Bankası	İkitelli Şube (373) USD	IBAN TR65 0006 2000 3730 0009 0889 14
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