



# ŞENOL MAKİNA

**50** YEARS

GENEL KATALOG  
GENERAL CATALOGUE



50  
YEARS



# ŞENOL MAKİNA

*“Çelik Halat & Yük Kaldırma Ekipmanları  
Steel Wireropes & Lifting Solutions”*



BAŞLARKEN / INTRODUCTION





ŞENOL MAKİNA

Firmamızın temelleri  
1972 yılında merhum Turan  
ŞENOL tarafından Karaköy  
Perşembe Pazarında  
atılmıştır.

Our company was established  
in 1972 by Turan ŞENOL at  
Karaköy Perşembe Pazar discret.

▲  
**1972**



Halit & Tuncay  
ŞENOL  
kardeşler tarafından  
proje bazlı üretimi  
destekleyen perakende  
mağazası kuruluşu ve  
şirketteleşme.

Retail sales office  
establishment by  
Halit & Tuncay  
ŞENOL brothers to  
support project based  
production

▲  
**1996**



▼  
**2001**

Tuzla  
Tersaneler Bölgesi  
Yatırımı.

Tuzla  
Shipyard Area  
Investment

▼  
**1983**

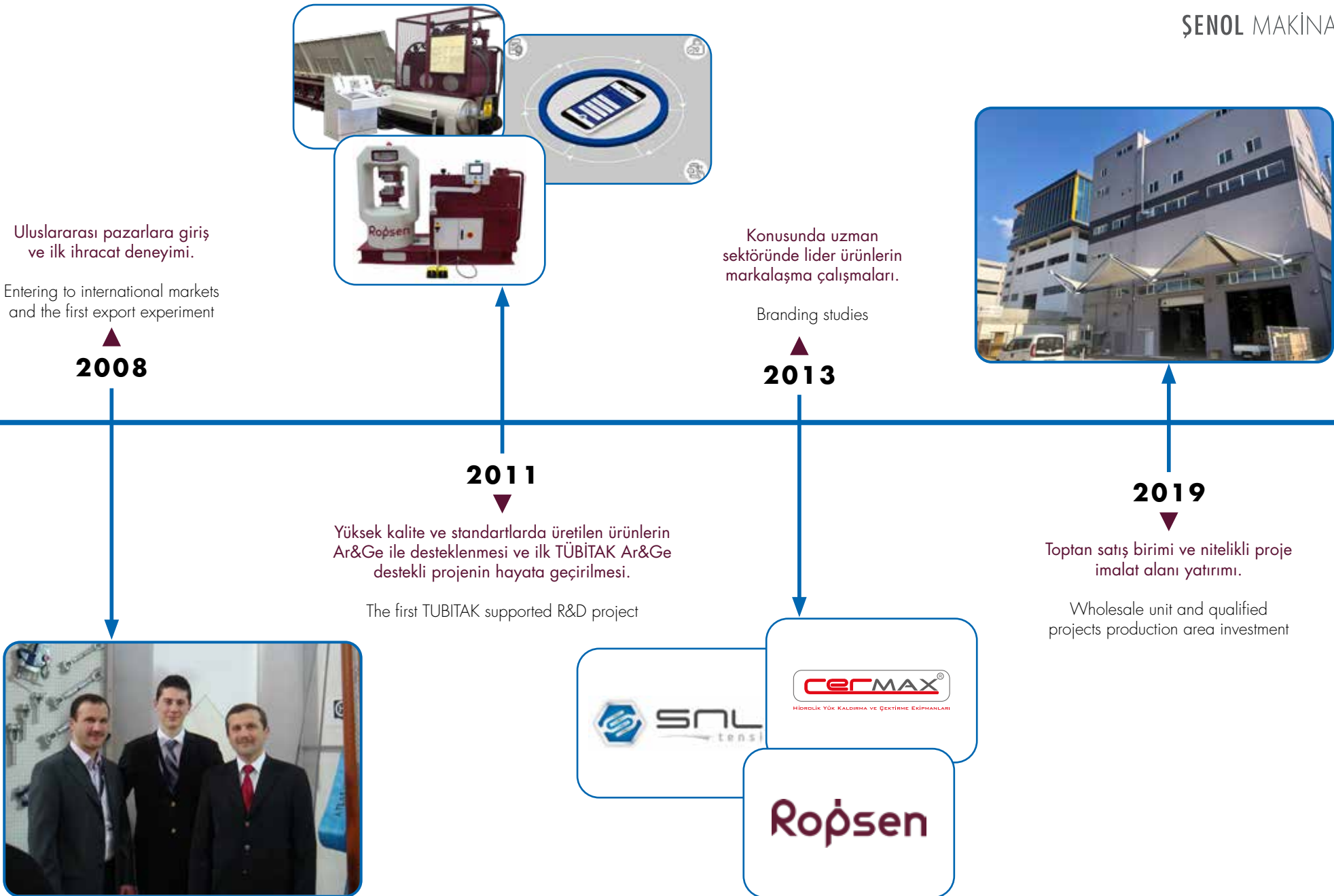
Atölye imalatından  
Alemdağ fabrika  
yerleşkesine geçiş  
ve seri imalat  
kapasitesinin  
arttırılması.

Moving to Alemdağ  
factory and expending  
production capability.





ŞENOL MAKİNA





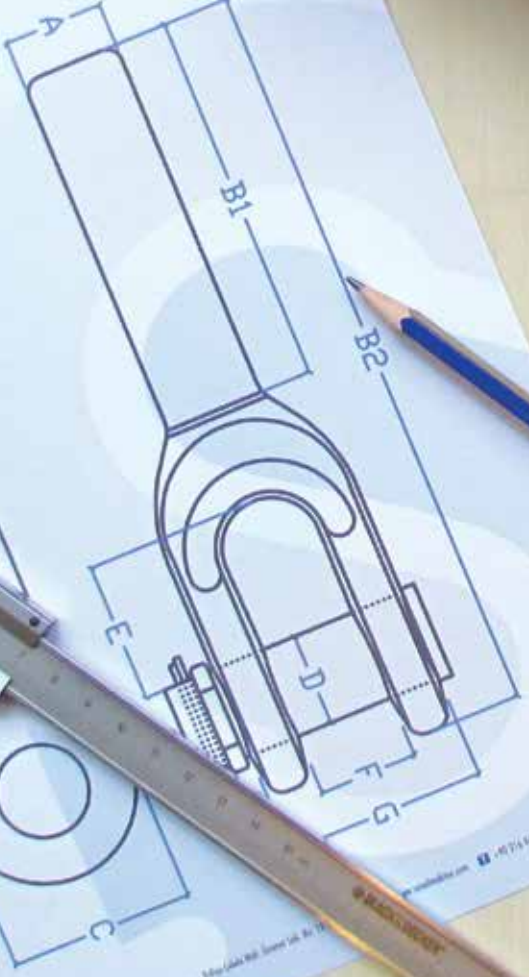
ŞENOL MAKİNA





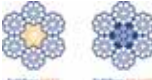
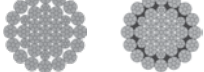
SENOL MAKİNA

TÜV CE  
AUSTRIA



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SNL WIRE MONOTRON ÇELİK HALATLAR  
SNL WIRE MONOTRON STEEL WIRE ROPES

1X19

SNL WIRE MONOTRON ÇELİK HALATLAR  
SNL WIRE MONOTRON STEEL WIRE ROPES

1X37



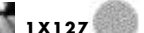
44

SNL WIRE MONOTRON ÇELİK HALATLAR  
SNL WIRE MONOTRON STEEL WIRE ROPES

1X61

SNL WIRE MONOTRON ÇELİK HALATLAR  
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1X127



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ZİNCİRLER  
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GRADE 80 YÜKSEK MUKAVEMETLİ YÜK ZİNCİRLERİ EN818-2  
GRADE 80 HIGH TENSILE LIFTING CHAINS EN818-2

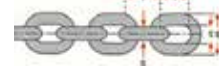
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GRADE 100 YÜKSEK MUKAVEMETLİ YÜK ZİNCİRLERİ EN818-2  
GRADE 100 HIGH TENSILE LIFTING CHAINS EN818-2

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GRADE 100 YÜKSEK MUKAVEMETLİ YÜK ZİNCİRLERİ EN818-2  
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GERDİRME TURNBUCKLE  
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RADANSA DIN 6899 THIMBLE DIN 6899  
DOLU RADANSA DIN 3091 SOLID THIMBLE DIN 3091

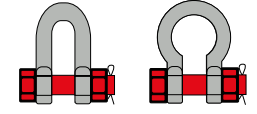
60

KAMALI HALAT SOKETİ WEDGE SOCKET  
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WIRELOCK REQUIRED ACC. TO ROPE DIAMETER  
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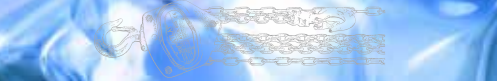
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AĞIR TİP MAKARALAR HEAVY IND. ROPE BLOCKS  
SNLBLOCKS ROPE BLOCKS  
AĞIR TİP MAKARALAR HEAVY IND. ROPE BLOCKS  
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UNİVERSAL PERMANENT MAGNETIC LIFTER  
ŞİŞE KRİKO  
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PEHLİVAN KRİKO MECHANICAL JACK  
MAKİNA KRİKOSU HYDRAULIC BOTTLE JACK  
RAY KAPMA RAIL CLAMP

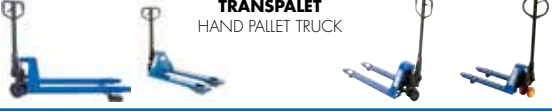
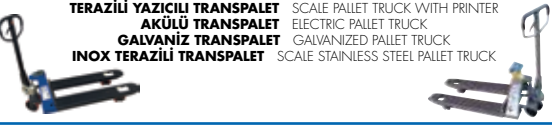
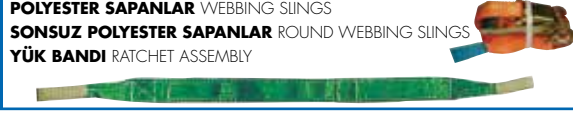
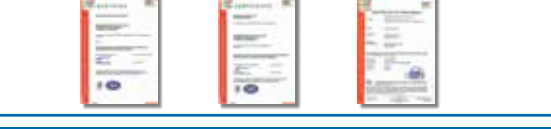
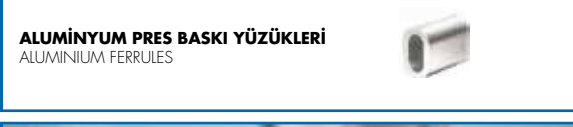
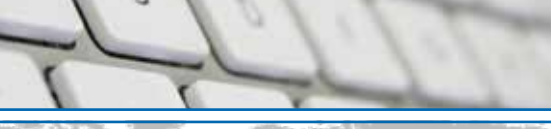
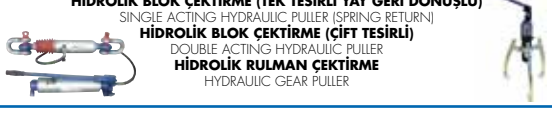
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ZİNCİRLİ ELEKTRİKLİ VİNÇ ELECTRICAL CHAIN HOIST



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| 78 | <br><b>HİDROLİK BLOK ÇEKTİRME (TEK TESİRLİ YAY GERİ DÖNÜŞLÜ)</b> SINGLE ACTING HYDRAULIC PULLER (SPRING RETURN)<br><b>HİDROLİK BLOK ÇEKTİRME (ÇİFT TESİRLİ)</b> DOUBLE ACTING HYDRAULIC PULLER<br><b>HİDROLİK RULMAN ÇEKTİRME</b> HYDRAULIC GEAR PULLER                                    | 88 |                                                                                                                                                  |    |  |



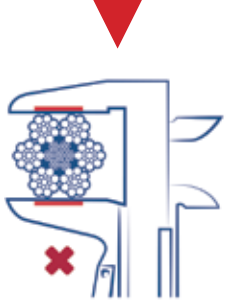
## ÇELİK HALATLAR

STEEL WIRE ROPES

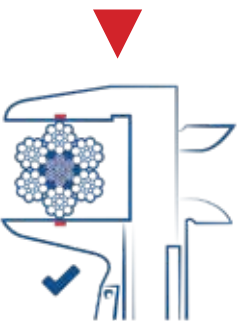


ŞENOL MAKİNA

YANLIŞ  
Wrong

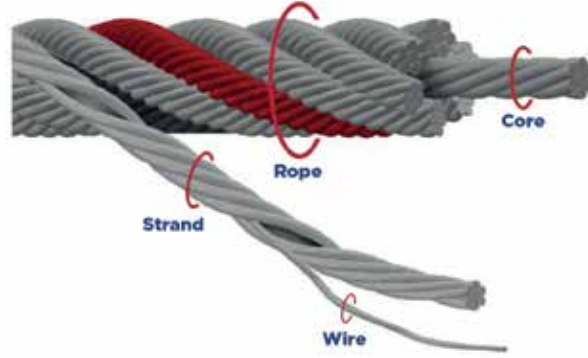


DOĞRU  
Correct



## ÇELİK HALATLAR STEEL WIRE ROPES

► ÇELİK HALATLAR HAKKINDA GENEL BİLGİ GENERAL INFORMATION ABOUT STEEL WIRE ROPES



► ÇAPRAZ SAĞ SARIM  
RIGHT REGULAR LAY



► ÇAPRAZ SOL SARIM  
LEFT REGULAR LAY



► SAĞ DÜZ SARIM  
RIGHT LANGS LAY



► SOL DÜZ SARIM  
LEFT LANGS LAY



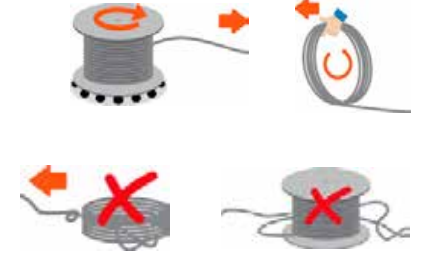
► DEĞİŞKEN SARIM  
RIGHT VARIABLE LAY



► 1- KALİTE KONTROL  
QUALITY CONTROL



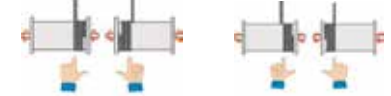
► 5- ÇÖZME/BOŞALTMA  
UNWINDING



► 2- TAŞIMA  
TRANSPORTATION



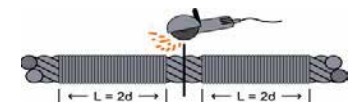
► 6- SARMA/KONUMLANDIRMA  
POSITIONING



► 3- DEPOLAMA  
STORAGE



► 7- KESME  
CUTTING



► 4- AKTARMA/ELLEÇLEME  
SPOOLING



► 8- YAĞLAMA  
GREASING & LUBRICATION



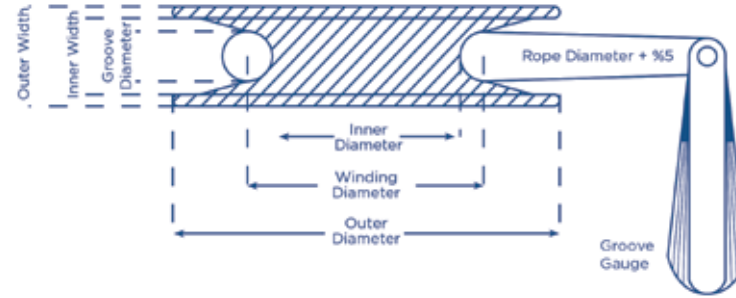
# ÇELİK HALATLAR STEEL WIRE ROPES

## ► ÇELİK HALATLAR HAKKINDA GENEL BİLGİ GENERAL INFORMATION ABOUT STEEL WIRE ROPES

Halat ömrüne etki eden en önemli faktörler makara, makara çapı ve halat konstrüksiyonu ile olan uyumlardır. Doğru makara çapı seçimi, halat ömrünün daha uzun süreli olmasını ve çalışma güvenliğini sağlayan ana unsurların başında gelmektedir. Halat-Makara temas açısı 135-150 derece arasında olmalıdır. Ayrıca seçim yapılırken göz önünde bulundurulması gereken oranlama aşağıdaki tabloda detaylandırılmıştır.

Relations of reel, drum and rope:

The pulley and drum DIAMETERS, as well as the DIAMETER and other properties of the grooves thereon, have a major impact on the rope life. Groove knives can generally be used for groove wear, DIAMETER and width measurements. Making pulleys and reels of suitable material is beneficial for rope life. If the grooves are wider than required and the rope contact angle is greater, ovalization of the rope would be occurred. In both cases, rope life is inconvenient. In general, the rope-groove contact angle should be between 135-150 degrees. In addition, pulley and rope DIAMETER ratios are shown in the table.



## KONSTRÜKSİYONA BAĞLI OLARAK TAVSİYE EDİLEN MAKARA KULLANIM ORANLARI SOME REEL DIMENSIONS AND USE OF GROOVE CUTTER

| KONSTRÜKSİYON<br>ROPE CONSTRUCTION | D/d ORANI<br>D/d Ratio |                   |
|------------------------------------|------------------------|-------------------|
|                                    | ÖNERİLEN / RECOMMENDED | MİNİMUM / MINIMUM |
| 6x7 (6-1)                          | 54                     | 42                |
| 6x19S (9-9-1)                      | 40                     | 32                |
| 6x26WS (10-5+5-5-1)                | 38                     | 30                |
| 6x25F (12-6F-6-1)                  | 34                     | 26                |
| 6x31WS (12-6+6-6-1)                | 34                     | 26                |
| 6x36WS (14-7+7-7-1)                | 34                     | 26                |
| 6x41WS (16-8+8-8-1)                | 28                     | 20                |
| 6x49SF (16-16+8F-8-1)              | 28                     | 20                |
| 8x19S (9-9-1)                      | 35                     | 26                |
| 8x26WS (10-5+5-5-1)                | 30                     | 21                |
| 8x25F (12-6F-6-1)                  | 32                     | 24                |
| 8x31WS (12-6+6-6-1)                | 30                     | 21                |
| 8x36WS (14-7+7-7-1)                | 30                     | 21                |
| 18x7 FC (12-6-FC)                  | 34                     | 28                |
| 18x7 WSC (12-6-1)                  | 34                     | 28                |
| 35x7 (16-6+6-6-1)                  | 28                     | 20                |



ŞENOL MAKİNA

### Makara ve Yiv Kesitleri Reel and Groove Cross Sections



### Yeni Halat Yeni Yiv

New Rope  
New Groove



### Yeni Halat Yıpranmış Yiv

New Rope  
Worn Groove



### Yıpranmış Halat Yıpranmış Yiv

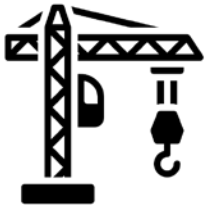
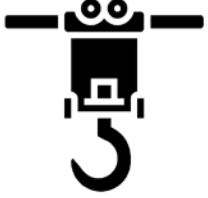
Worn Rope  
Worn Groove



ÇELİK HALAT  
çelik halat ve tel sanayii a.ş.



ŞENOL MAKİNA



ÇELİK HALAT  
çelik halat ve tel sanayi a.ş.

## ÇELİK HALATLAR STEEL WIRE ROPES

### ► VİNÇ HALATLARI CRANE ROPES



CelikFlex 187 FC



CelikFlex 197 WSC



CelikRope 636 FC



CelikRope 636 IWRC



CelikRope 625 FC



CelikRope 625 IWRC



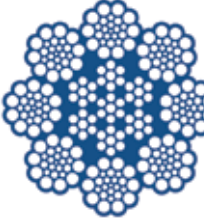
CelikRope 836 FC



CelikRope 836 IWRC



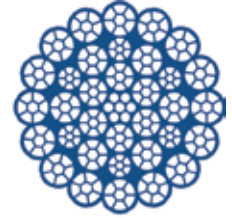
CelikRope 826 FC



CelikRope 826 IWRC



CelikFlex 357

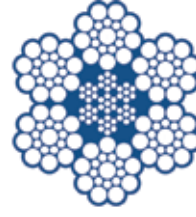


CelikFlex K357

### ► MADENCİLİK HALATLARI MINING ROPES



CelikRope 619 FC



CelikRope 619 IWRC



CelikRope 636 FC



CelikRope 636 IWRC



CelikRope 641 FC



CelikRope 641 IWRC



CelikRope 625 FC



CelikRope 625 IWRC



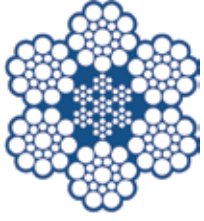
CelikRope 649 IWRC

# ÇELİK HALATLAR STEEL WIRE ROPES

## ► DENİZCİLİK HALATLARI MARINE ROPES



CelikRope 619 FC



CelikRope 619 IWRC



CelikRope 636 FC



CelikRope 636 IWRC



CelikRope 641 FC



CelikRope 641 IWRC



CelikRope 625 FC



CelikRope 625 IWRC



CelikRope 436 FC



CelikRope 331

## ► ASANSÖR HALATLARI ELEVATOR ROPES



CelikRope 819 FC



CelikRope 819 IWRC



CelikRope 825 FC



CelikRope 825 IWRC



CelikRope 819 W FC



CelikRope 819 W IWRC



ŞENOL MAKİNA



ÇELİK HALAT  
çelik halat ve tel sanayi a.ş.



ŞENOL MAKİNA

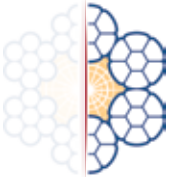
**6x7 FC  
1 (1+6)**



Çap Aralığı: 8-46(mm)  
Tel Sayısı: 42  
Doluluk Oranı: 0,469  
Dönme Oranı: 0,899

Diameter Range: 8-46(mm)  
Number Of Wires: 42  
Average Fill Factor: 0,469  
Average Spin Factor: 0,899

**6x7 FC  
1 (1+6)  
COMPACT**



Çap Aralığı: 8-44(mm)  
Tel Sayısı: 42  
Doluluk Oranı: 0,495  
Dönme Oranı: 0,899

Diameter Range: 8-44(mm)  
Number Of Wires: 42  
Average Fill Factor: 0,495  
Average Spin Factor: 0,899



**ÇELİK HALAT**  
çelik halat ve tel sanayi a.ş.

## ÇELİK HALATLAR STEEL WIRE ROPES



► **6x7 LİF ÖZLÜ ÇELİK HALAT**  
6x7 FIBRE CORE STEEL WIRE ROPES



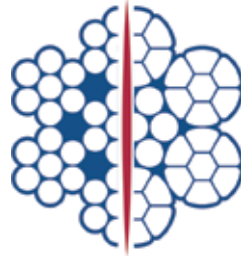
► **6x7 LİF ÖZLÜ COMPACT ÇELİK HALAT**  
6x7 FIBRE CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 6 x 7 FC 6[1+6]         |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                 |                 |                 |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|-----------------|-----------------|-----------------|
|             | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm²]                                       | 1770<br>[N/mm²] | 1960<br>[N/mm²] | 2160<br>[N/mm²] |
| İZM267KÖG   | 2                       | 0,014                       |                                                       | 2,7             |                 |                 |
| İZM367KÖG   | 3                       | 0,032                       |                                                       | 6,0             |                 |                 |
| İZM467KÖG   | 4                       | 0,057                       |                                                       | 10,6            |                 |                 |
| İZM567KÖG   | 5                       | 0,089                       |                                                       | 16,6            |                 |                 |
| İZM667KÖG   | 6                       | 0,129                       |                                                       | 23,9            |                 |                 |
| İZM867KÖG   | 8                       | 0,221                       | 33,4                                                  | 37,6            | 41,6            | 45,9            |
| İZM967KÖG   | 9                       | 0,280                       | 42,2                                                  | 47,6            | 52,7            | 58,1            |
| İZM1067KÖG  | 10                      | 0,346                       | 52,1                                                  | 58,8            | 65,1            | 71,7            |
| İZM1167KÖG  | 11                      | 0,418                       | 63,1                                                  | 71,1            | 78,7            | 86,8            |
| İZM1267KÖG  | 12                      | 0,498                       | 75,1                                                  | 84,6            | 93,7            | 103             |
| İZM1367KÖG  | 13                      | 0,584                       | 88,1                                                  | 99,3            | 110             | 121             |
| İZM1467KÖG  | 14                      | 0,677                       | 102                                                   | 115             | 128             | 141             |
| İZM1567KÖG  | 15                      | 0,778                       | 117                                                   | 132             | 146             | 161             |
| İZM1667KÖG  | 16                      | 0,885                       | 133                                                   | 150             | 167             | 184             |
| İZM1867KÖG  | 18                      | 1,120                       | 169                                                   | 190             | 211             | 232             |
| İZM2067KÖG  | 20                      | 1,382                       | 208                                                   | 235             | 260             | 287             |
| İZM2267KÖG  | 22                      | 1,672                       | 252                                                   | 284             | 315             | 347             |
| İZM2467KÖG  | 24                      | 1,990                       | 300                                                   | 338             | 375             | 413             |
| İZM2667KÖG  | 26                      | 2,336                       | 352                                                   | 397             | 440             | 485             |
| İZM2867KÖG  | 28                      | 2,709                       | 409                                                   | 461             | 510             |                 |
| İZM3267KÖG  | 32                      | 3,538                       | 534                                                   | 602             | 666             |                 |

| KOD<br>CODE | 6 x 7 FC 6[1+6]<br>COMPACT | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |                              |
|-------------|----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)    | AĞIRLIK<br>Weight<br>(kg/m)                           | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM867KÖGK  | 8                          | 0,233                                                 | 39,4                         | 44,4                         | 49,1                         | 54,2                         |
| İZM967KÖGK  | 9                          | 0,295                                                 | 49,8                         | 56,2                         | 62,2                         | 68,5                         |
| İZM1067KÖGK | 10                         | 0,365                                                 | 61,5                         | 69,3                         | 76,8                         | 84,6                         |
| İZM1167KÖGK | 11                         | 0,441                                                 | 74,4                         | 83,9                         | 92,9                         | 102,4                        |
| İZM1267KÖGK | 12                         | 0,525                                                 | 89                           | 99,9                         | 110,6                        | 122                          |
| İZM1367KÖGK | 13                         | 0,616                                                 | 104                          | 117,2                        | 130                          | 143                          |
| İZM1467KÖGK | 14                         | 0,715                                                 | 121                          | 136                          | 150                          | 166                          |
| İZM1567KÖGK | 15                         | 0,820                                                 | 138                          | 156                          | 173                          | 190                          |
| İZM1667KÖGK | 16                         | 0,933                                                 | 157                          | 178                          | 197                          | 217                          |
| İZM1867KÖGK | 18                         | 1,181                                                 | 199                          | 225                          | 249                          | 274                          |
| İZM2067KÖGK | 20                         | 1,458                                                 | 246                          | 277                          | 307                          | 338                          |
| İZM2267KÖGK | 22                         | 1,764                                                 | 298                          | 336                          | 372                          | 410                          |
| İZM2467KÖGK | 24                         | 2,100                                                 | 354                          | 399                          | 442                          | 487                          |
| İZM2667KÖGK | 26                         | 2,464                                                 | 416                          | 469                          | 519                          |                              |
| İZM2867KÖGK | 28                         | 2,858                                                 | 482                          | 544                          | 602                          |                              |
| İZM3267KÖGK | 32                         | 3,733                                                 | 630                          | 710                          |                              |                              |

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.

# ÇELİK HALATLAR STEEL WIRE ROPES



## ► 6x7 ÇELİK ÖZLÜ ÇELİK HALAT 6X7 STEEL CORE STEEL WIRE ROPES

## ► 6x7 ÇELİK ÖZLÜ COMPACT ÇELİK HALAT 6X7 STEEL CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 6 x 7 WSC 6[1+6]        |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                 |                 |                 |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|-----------------|-----------------|-----------------|
|             | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm2]                                       | 1770<br>[N/mm2] | 1960<br>[N/mm2] | 2160<br>[N/mm2] |
| İZM867ÇÖG   | 8                       | 0,247                       | 36,1                                                  | 40,7            | 45,0            | 49,6            |
| İZM967ÇÖG   | 9                       | 0,312                       | 45,7                                                  | 51,5            | 57,0            | 62,8            |
| İZM1067ÇÖG  | 10                      | 0,386                       | 56,4                                                  | 63,5            | 70,4            | 77,5            |
| İZM1167ÇÖG  | 11                      | 0,467                       | 68,2                                                  | 76,9            | 85,1            | 93,8            |
| İZM1267ÇÖG  | 12                      | 0,555                       | 81,2                                                  | 91,5            | 101             | 112             |
| İZM1367ÇÖG  | 13                      | 0,652                       | 95,3                                                  | 107             | 119             | 131             |
| İZM1467ÇÖG  | 14                      | 0,756                       | 110                                                   | 125             | 138             | 152             |
| İZM1567ÇÖG  | 15                      | 0,868                       | 127                                                   | 143             | 158             | 174             |
| İZM1667ÇÖG  | 16                      | 0,987                       | 144                                                   | 163             | 180             | 199             |
| İZM1867ÇÖG  | 18                      | 1,249                       | 183                                                   | 206             | 228             | 251             |
| İZM2067ÇÖG  | 20                      | 1,542                       | 225                                                   | 254             | 281             | 310             |
| İZM2267ÇÖG  | 22                      | 1,866                       | 273                                                   | 308             | 341             | 375             |
| İZM2467ÇÖG  | 24                      | 2,221                       | 325                                                   | 366             | 405             | 447             |
| İZM2667ÇÖG  | 26                      | 2,606                       | 381                                                   | 430             | 476             |                 |
| İZM2867ÇÖG  | 28                      | 3,023                       | 442                                                   | 498             | 552             |                 |
| İZM3267ÇÖG  | 32                      | 3,948                       | 577                                                   | 651             | 721             |                 |

| KOD<br>CODE | 6 x 7 WSC 6[1+6]<br>COMPACT |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                 |                 |                 |
|-------------|-----------------------------|-----------------------------|-------------------------------------------------------|-----------------|-----------------|-----------------|
|             | ÇAP<br>Diameter<br>(mm)     | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm2]                                       | 1770<br>[N/mm2] | 1960<br>[N/mm2] | 2160<br>[N/mm2] |
| İZM867ÇÖGK  | 8                           | 0,260                       | 42,6                                                  | 48,0            | 53,1            | 58,6            |
| İZM967ÇÖGK  | 9                           | 0,329                       | 53,9                                                  | 60,7            | 67,3            | 74,1            |
| İZM1067ÇÖGK | 10                          | 0,407                       | 66,5                                                  | 75,0            | 83,0            | 91,5            |
| İZM1167ÇÖGK | 11                          | 0,492                       | 80,5                                                  | 90,7            | 100,5           | 110,7           |
| İZM1267ÇÖGK | 12                          | 0,586                       | 96                                                    | 108,0           | 120             | 132             |
| İZM1367ÇÖGK | 13                          | 0,687                       | 112                                                   | 127             | 140             | 155             |
| İZM1467ÇÖGK | 14                          | 0,797                       | 130                                                   | 147             | 163             | 179             |
| İZM1567ÇÖGK | 15                          | 0,915                       | 150                                                   | 169             | 187             | 206             |
| İZM1667ÇÖGK | 16                          | 1,041                       | 170                                                   | 192             | 213             | 234             |
| İZM1867ÇÖGK | 18                          | 1,318                       | 215                                                   | 243             | 269             | 296             |
| İZM2067ÇÖGK | 20                          | 1,627                       | 266                                                   | 300             | 332             | 366             |
| İZM2267ÇÖGK | 22                          | 1,969                       | 322                                                   | 363             | 402             | 443             |
| İZM2467ÇÖGK | 24                          | 2,343                       | 383                                                   | 432             | 478             | 527             |
| İZM2667ÇÖGK | 26                          | 2,750                       | 450                                                   | 507             | 561             |                 |
| İZM2867ÇÖGK | 28                          | 3,189                       | 521                                                   | 588             | 651             |                 |
| İZM3267ÇÖGK | 32                          | 4,165                       | 681                                                   | 768             | 850             |                 |



ŞENOL MAKİNA

6x7 WSC  
1 (1+6)



Çap Aralığı: 8-46(mm)  
Tel Sayısı: 42  
Doluluk Oranı: 0,55  
Dönme Oranı: 0,831

Diameter Range: 8-46(mm)  
Number Of Wires: 49  
Average Fill Factor: 0,55  
Average Spin Factor: 0,831

6x7 WSC  
1 (1+6)  
COMPACT



Çap Aralığı: 8-44(mm)  
Tel Sayısı: 49  
Doluluk Oranı: 0,58  
Dönme Oranı: 0,84

Diameter Range: 8-44(mm)  
Number Of Wires: 49  
Average Fill Factor: 0,580  
Average Spin Factor: 0,84



ÇELİK HALAT  
çelik halat ve tel sanayi a.ş.

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.



ŞENOL MAKİNA

6x19 Std FC  
1 (1+6+12)



Çap Aralığı: 6-74(mm)  
Tel Sayısı: 114  
Doluluk Oranı: 0,454  
Dönme Oranı: 0,859

Diameter Range: 6-74(mm)  
Number Of Wires: 114  
Average Fill Factor: 0,454  
Average Spin Factor: 0,859



ÇELİK HALAT  
çelik halat ve tel sanayi a.ş.

## ÇELİK HALATLAR STEEL WIRE ROPES



No Swivel Tolerance



Lubricate Preformed



### 6x19 STANDART LİF ÖZLÜ ÇELİK HALAT 6x19 STANDART FIBRE CORE STEEL WIRE ROPES

| KOD<br>CODE | 6 x 19 Std FC 6[1+6+12] |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM6619KÖ   | 6                       | 0,124                       | -                                                     | 19,6                         | 21,7                         | 23,9                         |
| İZM7619KÖ   | 7                       | 0,169                       | -                                                     | 26,6                         | 29,5                         | 32,5                         |
| İZM8619KÖ   | 8                       | 0,221                       | 30,8                                                  | 34,8                         | 38,5                         | 42,4                         |
| İZM9619KÖ   | 9                       | 0,280                       | 39,0                                                  | 44,0                         | 48,7                         | 53,7                         |
| İZM10619KÖ  | 10                      | 0,346                       | 48,2                                                  | 54,3                         | 60,2                         | 66,3                         |
| İZM11619KÖ  | 11                      | 0,418                       | 58,3                                                  | 65,8                         | 72,8                         | 80,2                         |
| İZM12619KÖ  | 12                      | 0,498                       | 69,4                                                  | 78,2                         | 86,6                         | 95,5                         |
| İZM13619KÖ  | 13                      | 0,584                       | 81,5                                                  | 91,8                         | 102                          | 112                          |
| İZM14619KÖ  | 14                      | 0,677                       | 94,5                                                  | 107                          | 118                          | 130                          |
| İZM15619KÖ  | 15                      | 0,778                       | 108                                                   | 122                          | 135                          | 149                          |
| İZM16619KÖ  | 16                      | 0,885                       | 123                                                   | 139                          | 154                          | 170                          |
| İZM18619KÖ  | 18                      | 1,120                       | 156                                                   | 176                          | 195                          | 215                          |
| İZM20619KÖ  | 20                      | 1,382                       | 193                                                   | 217                          | 241                          | 265                          |
| İZM21619KÖ  | 21                      | 1,524                       | 213                                                   | 240                          | 265                          | 292                          |
| İZM22619KÖ  | 22                      | 1,672                       | 233                                                   | 263                          | 291                          | 321                          |
| İZM24619KÖ  | 24                      | 1,990                       | 278                                                   | 313                          | 347                          | 382                          |
| İZM26619KÖ  | 26                      | 2,336                       | 326                                                   | 367                          | 407                          | 448                          |
| İZM28619KÖ  | 28                      | 2,709                       | 378                                                   | 426                          | 472                          | 520                          |
| İZM32619KÖ  | 32                      | 3,538                       | 494                                                   | 556                          | 616                          | 679                          |
| İZM36619KÖ  | 36                      | 4,478                       | 625                                                   | 704                          | 780                          | 859                          |
| İZM40619KÖ  | 40                      | 5,529                       | 771                                                   | 869                          | 963                          | 1.061                        |
| İZM44619KÖ  | 44                      | 6,690                       | 933                                                   | 1.052                        | 1.165                        |                              |
| İZM48619KÖ  | 48                      | 7,962                       | 1.111                                                 | 1.252                        | 1.386                        |                              |
| İZM52619KÖ  | 52                      | 9,344                       | 1.303                                                 | 1.469                        | 1.627                        |                              |
| İZM56619KÖ  | 56                      | 10,837                      | 1.512                                                 | 1.704                        | 1.887                        |                              |
| İZM60619KÖ  | 60                      | 12,440                      | 1.735                                                 | 1.956                        |                              |                              |

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.

# ÇELİK HALATLAR STEEL WIRE ROPES



## ► 6x19 STANDART ÇELİK ÖZLÜ ÇELİK HALAT 6x19 STANDART STEEL CORE STEEL WIRE ROPES

| KOD<br>CODE | 6 x 19 Std IWRC 6[1+6+12] |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|---------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)   | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM6619ÇÖ   | 6                         | 0,137                       | -                                                     | 21,2                         | 23,4                         | 25,8                         |
| İZM7619ÇÖ   | 7                         | 0,187                       | -                                                     | 28,8                         | 31,9                         | 35,1                         |
| İZM8619ÇÖ   | 8                         | 0,244                       | 33,4                                                  | 37,6                         | 41,6                         | 45,9                         |
| İZM9619ÇÖ   | 9                         | 0,309                       | 42,2                                                  | 47,6                         | 52,7                         | 58,1                         |
| İZM10619ÇÖ  | 10                        | 0,381                       | 52,1                                                  | 58,8                         | 65,1                         | 71,7                         |
| İZM11619ÇÖ  | 11                        | 0,461                       | 63,1                                                  | 71,1                         | 78,7                         | 86,8                         |
| İZM12619ÇÖ  | 12                        | 0,549                       | 75,1                                                  | 84,6                         | 93,7                         | 103                          |
| İZM13619ÇÖ  | 13                        | 0,644                       | 88,1                                                  | 99,3                         | 110                          | 121                          |
| İZM14619ÇÖ  | 14                        | 0,747                       | 102                                                   | 115                          | 128                          | 141                          |
| İZM15619ÇÖ  | 15                        | 0,858                       | 117                                                   | 132                          | 146                          | 161                          |
| İZM16619ÇÖ  | 16                        | 0,976                       | 133                                                   | 150                          | 167                          | 184                          |
| İZM18619ÇÖ  | 18                        | 1,235                       | 169                                                   | 190                          | 211                          | 232                          |
| İZM20619ÇÖ  | 20                        | 1,524                       | 208                                                   | 235                          | 260                          | 287                          |
| İZM21619ÇÖ  | 21                        | 1,681                       | 230                                                   | 259                          | 287                          | 316                          |
| İZM22619ÇÖ  | 22                        | 1,845                       | 252                                                   | 284                          | 315                          | 347                          |
| İZM24619ÇÖ  | 24                        | 2,195                       | 300                                                   | 338                          | 375                          | 413                          |
| İZM26619ÇÖ  | 26                        | 2,576                       | 352                                                   | 397                          | 440                          | 485                          |
| İZM28619ÇÖ  | 28                        | 2,988                       | 409                                                   | 461                          | 510                          | 562                          |
| İZM32619ÇÖ  | 32                        | 3,903                       | 534                                                   | 602                          | 666                          | 734                          |
| İZM36619ÇÖ  | 36                        | 4,939                       | 676                                                   | 762                          | 843                          | 929                          |
| İZM40619ÇÖ  | 40                        | 6,098                       | 834                                                   | 940                          | 1.041                        | 1.147                        |
| İZM44619ÇÖ  | 44                        | 7,378                       | 1.009                                                 | 1,138                        | 1.260                        |                              |
| İZM48619ÇÖ  | 48                        | 8,781                       | 1.201                                                 | 1,354                        | 1.499                        |                              |
| İZM52619ÇÖ  | 52                        | 10,305                      | 1.409                                                 | 1,589                        | 1.760                        |                              |
| İZM56619ÇÖ  | 56                        | 11,952                      | 1.635                                                 | 1,843                        | 2.041                        |                              |
| İZM60619ÇÖ  | 60                        | 13,720                      | 1.876                                                 | 2,116                        |                              |                              |

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.



ŞENOL MAKİNA

**6x19 Std IWRC  
1 (1+6+12)**



Çap Aralığı: 6-74(mm)  
Tel Sayısı: 163  
Doluluk Oranı: 0,532  
Dönme Oranı: 0,794

Diameter Range: 6-74(mm)  
Number Of Wires: 163  
Average Fill Factor: 0,532  
Average Spin Factor: 0,794



**ÇELİK HALAT**  
çelik halat ve tel sanayi a.ş.



ŞENOL MAKİNA

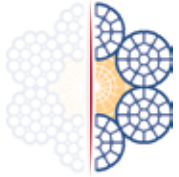
**6x25F FC  
6 (1+6+6F+12)**



Çap Aralığı: 8-73(mm)  
Tel Sayısı: 150  
Doluluk Oranı: 0,488  
Dönme Oranı: 0,859

Diameter Range: 8-73(mm)  
Number Of Wires: 150  
Average Fill Factor: 0,488  
Average Spin Factor: 0,859

**6x25F FC  
6 (1+6+6F+12)  
COMPACT**



Çap Aralığı: 8-56(mm)  
Tel Sayısı: 150  
Doluluk Oranı: 0,515  
Dönme Oranı: 0,859

Diameter Range: 8-56(mm)  
Number Of Wires: 150  
Average Fill Factor: 0,515  
Average Spin Factor: 0,859



## ÇELİK HALATLAR STEEL WIRE ROPES



► **6x25F LİF ÖZLÜ ÇELİK HALAT**  
6x25F FIBRE CORE STEEL WIRE ROPES



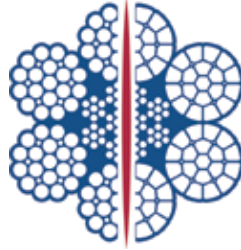
► **6x25F LİF ÖZLÜ COMPACT ÇELİK HALAT**  
6x25F FIBRE CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 6 x 25 F FC<br>6[1+6+6F+12] |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|-----------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)     | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM8625KÖ   | 8                           | 0,229                       | 33,2                                                  | 37,4                         | 41,4                         | 45,6                         |
| İZM9625KÖ   | 9                           | 0,290                       | 42,0                                                  | 47,3                         | 52,4                         | 57,7                         |
| İZM10625KÖ  | 10                          | 0,358                       | 51,8                                                  | 58,4                         | 64,7                         | 71,3                         |
| İZM11625KÖ  | 11                          | 0,434                       | 62,7                                                  | 70,7                         | 78,3                         | 86,2                         |
| İZM12625KÖ  | 12                          | 0,516                       | 74,6                                                  | 84,1                         | 93,1                         | 103                          |
| İZM13625KÖ  | 13                          | 0,606                       | 87,6                                                  | 98,7                         | 109                          | 120                          |
| İZM14625KÖ  | 14                          | 0,702                       | 102                                                   | 114                          | 127                          | 140                          |
| İZM15625KÖ  | 15                          | 0,806                       | 117                                                   | 131                          | 146                          | 160                          |
| İZM16625KÖ  | 16                          | 0,917                       | 133                                                   | 150                          | 166                          | 182                          |
| İZM18625KÖ  | 18                          | 1,161                       | 168                                                   | 189                          | 210                          | 231                          |
| İZM20625KÖ  | 20                          | 1,433                       | 207                                                   | 234                          | 259                          | 285                          |
| İZM21625KÖ  | 21                          | 1,580                       | 228                                                   | 258                          | 285                          | 314                          |
| İZM22625KÖ  | 22                          | 1,734                       | 251                                                   | 283                          | 313                          | 345                          |
| İZM24625KÖ  | 24                          | 2,064                       | 298                                                   | 336                          | 373                          | 411                          |
| İZM26625KÖ  | 26                          | 2,422                       | 350                                                   | 395                          | 437                          | 482                          |
| İZM28625KÖ  | 28                          | 2,809                       | 406                                                   | 458                          | 507                          | 559                          |
| İZM32625KÖ  | 32                          | 3,669                       | 531                                                   | 598                          | 662                          | 730                          |
| İZM36625KÖ  | 36                          | 4,644                       | 671                                                   | 757                          | 838                          | 924                          |
| İZM40625KÖ  | 40                          | 5,733                       | 829                                                   | 935                          | 1.035                        | 1.140                        |
| İZM44625KÖ  | 44                          | 6,937                       | 1.003                                                 | 1.131                        | 1.252                        |                              |
| İZM48625KÖ  | 48                          | 8,256                       | 1.194                                                 | 1.346                        | 1.490                        |                              |
| İZM52625KÖ  | 52                          | 9,689                       | 1.401                                                 | 1.579                        | 1.749                        |                              |
| İZM56625KÖ  | 56                          | 11,237                      | 1.625                                                 | 1.832                        |                              |                              |
| İZM60625KÖ  | 60                          | 12,900                      | 1.865                                                 | 2.103                        |                              |                              |

| KOD<br>CODE | 6 x 25 F FC<br>COMPACT  |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM8625KÖK  | 8                       | 0,247                       | 37,1                                                  | 41,9                         | 46,4                         | 51,1                         |
| İZM9625KÖK  | 9                       | 0,313                       | 47,0                                                  | 53,0                         | 58,7                         | 64,7                         |
| İZM10625KÖK | 10                      | 0,386                       | 58,0                                                  | 65,4                         | 72,4                         | 79,8                         |
| İZM11625KÖK | 11                      | 0,467                       | 70,2                                                  | 79,2                         | 87,7                         | 96,6                         |
| İZM12625KÖK | 12                      | 0,556                       | 83,6                                                  | 94,2                         | 104                          | 115                          |
| İZM13625KÖK | 13                      | 0,653                       | 98,1                                                  | 111                          | 122                          | 135                          |
| İZM14625KÖK | 14                      | 0,757                       | 114                                                   | 128                          | 142                          | 156                          |
| İZM15625KÖK | 15                      | 0,869                       | 131                                                   | 147                          | 163                          | 180                          |
| İZM16625KÖK | 16                      | 1,009                       | 151                                                   | 170                          | 189                          | 208                          |
| İZM18625KÖK | 18                      | 1,277                       | 191                                                   | 216                          | 239                          | 263                          |
| İZM20625KÖK | 20                      | 1,576                       | 236                                                   | 266                          | 295                          | 325                          |
| İZM21625KÖK | 21                      | 1,738                       | 260                                                   | 294                          | 325                          | 358                          |
| İZM22625KÖK | 22                      | 1,907                       | 286                                                   | 322                          | 357                          | 393                          |
| İZM24625KÖK | 24                      | 2,270                       | 340                                                   | 384                          | 425                          | 468                          |
| İZM26625KÖK | 26                      | 2,664                       | 399                                                   | 450                          | 498                          | 549                          |
| İZM28625KÖK | 28                      | 3,090                       | 463                                                   | 522                          | 578                          | 637                          |
| İZM32625KÖK | 32                      | 4,036                       | 605                                                   | 682                          | 755                          | 832                          |
| İZM36625KÖK | 36                      | 5,107                       | 765                                                   | 863                          | 956                          | 1.053                        |
| İZM40625KÖK | 40                      | 6,306                       | 945                                                   | 1.065                        | 1.180                        |                              |
| İZM44625KÖK | 44                      | 7,630                       | 1.143                                                 | 1.289                        | 1.428                        |                              |
| İZM48625KÖK | 48                      | 9,080                       | 1.361                                                 | 1.534                        |                              |                              |
| İZM52625KÖK | 52                      | 10,656                      | 1.597                                                 | 1.801                        |                              |                              |
| İZM56625KÖK | 56                      | 12,359                      | 1.852                                                 |                              |                              |                              |

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.

# ÇELİK HALATLAR STEEL WIRE ROPES



## ► 6x25F ÇELİK ÖZLÜ ÇELİK HALAT 6x25F STEEL CORE STEEL WIRE ROPES

## ► 6x25F ÇELİK ÖZLÜ COMPACT ÇELİK HALAT 6x25F STEEL CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 6 x 25 F IWRC<br>6[1+6+6F+12] | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|-------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)       | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM8625ÇÖ   | 8                             | 0,256                                                 | 35,8                         | 40,3                         | 44,7                         | 49,2                         |
| İZM9625ÇÖ   | 9                             | 0,324                                                 | 45,3                         | 51,0                         | 56,5                         | 62,3                         |
| İZM10625ÇÖ  | 10                            | 0,400                                                 | 55,9                         | 63,0                         | 69,8                         | 76,9                         |
| İZM11625ÇÖ  | 11                            | 0,484                                                 | 67,6                         | 76,2                         | 84,4                         | 93,0                         |
| İZM12625ÇÖ  | 12                            | 0,576                                                 | 80,5                         | 90,7                         | 100                          | 111                          |
| İZM13625ÇÖ  | 13                            | 0,676                                                 | 94,5                         | 106                          | 118                          | 130                          |
| İZM14625ÇÖ  | 14                            | 0,784                                                 | 110                          | 124                          | 137                          | 151                          |
| İZM15625ÇÖ  | 15                            | 0,900                                                 | 126                          | 142                          | 157                          | 173                          |
| İZM16625ÇÖ  | 16                            | 1,024                                                 | 143                          | 161                          | 179                          | 197                          |
| İZM18625ÇÖ  | 18                            | 1,296                                                 | 181                          | 204                          | 226                          | 249                          |
| İZM20625ÇÖ  | 20                            | 1,600                                                 | 224                          | 252                          | 279                          | 308                          |
| İZM21625ÇÖ  | 21                            | 1,764                                                 | 246                          | 278                          | 308                          | 339                          |
| İZM22625ÇÖ  | 22                            | 1,936                                                 | 271                          | 305                          | 338                          | 372                          |
| İZM24625ÇÖ  | 24                            | 2,304                                                 | 322                          | 363                          | 402                          | 443                          |
| İZM26625ÇÖ  | 26                            | 2,704                                                 | 378                          | 426                          | 472                          | 520                          |
| İZM28625ÇÖ  | 28                            | 3,136                                                 | 438                          | 494                          | 547                          | 603                          |
| İZM32625ÇÖ  | 32                            | 4,096                                                 | 572                          | 645                          | 715                          | 787                          |
| İZM36625ÇÖ  | 36                            | 5,184                                                 | 724                          | 817                          | 904                          | 997                          |
| İZM40625ÇÖ  | 40                            | 6,400                                                 | 894                          | 1.008                        | 1.116                        | 1.230                        |
| İZM44625ÇÖ  | 44                            | 7,744                                                 | 1.082                        | 1.220                        | 1.351                        |                              |
| İZM48625ÇÖ  | 48                            | 9,216                                                 | 1.288                        | 1.452                        | 1.608                        |                              |
| İZM52625ÇÖ  | 52                            | 10,816                                                | 1.511                        | 1.704                        | 1.887                        |                              |
| İZM56625ÇÖ  | 56                            | 12,544                                                | 1.753                        | 1.976                        |                              |                              |
| İZM60625ÇÖ  | 60                            | 14,400                                                | 2.012                        | 2.268                        |                              |                              |

| KOD<br>CODE | 6 x 25 F IWRC<br>COMPACT | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|--------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)  | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM8625ÇÖK  | 8                        | 0,276                                                 | 40,1                         | 45,2                         | 50,0                         | 55,1                         |
| İZM9625ÇÖK  | 9                        | 0,349                                                 | 50,7                         | 57,2                         | 63,3                         | 69,8                         |
| İZM10625ÇÖK | 10                       | 0,431                                                 | 62,6                         | 70,6                         | 78,1                         | 86,1                         |
| İZM11625ÇÖK | 11                       | 0,522                                                 | 75,7                         | 85,4                         | 94,6                         | 104,2                        |
| İZM12625ÇÖK | 12                       | 0,621                                                 | 90                           | 102                          | 113                          | 124                          |
| İZM13625ÇÖK | 13                       | 0,729                                                 | 106                          | 119                          | 132                          | 146                          |
| İZM14625ÇÖK | 14                       | 0,845                                                 | 123                          | 138                          | 153                          | 169                          |
| İZM15625ÇÖK | 15                       | 0,970                                                 | 141                          | 159                          | 176                          | 194                          |
| İZM16625ÇÖK | 16                       | 1,126                                                 | 163                          | 184                          | 204                          | 224                          |
| İZM18625ÇÖK | 18                       | 1,425                                                 | 206                          | 233                          | 258                          | 284                          |
| İZM20625ÇÖK | 20                       | 1,760                                                 | 255                          | 287                          | 318                          | 351                          |
| İZM21625ÇÖK | 21                       | 1,940                                                 | 281                          | 317                          | 351                          | 387                          |
| İZM22625ÇÖK | 22                       | 2,129                                                 | 308                          | 348                          | 385                          | 424                          |
| İZM24625ÇÖK | 24                       | 2,534                                                 | 367                          | 414                          | 458                          | 505                          |
| İZM26625ÇÖK | 26                       | 2,974                                                 | 431                          | 486                          | 538                          | 593                          |
| İZM28625ÇÖK | 28                       | 3,449                                                 | 500                          | 563                          | 624                          | 687                          |
| İZM32625ÇÖK | 32                       | 4,504                                                 | 652                          | 736                          | 815                          | 898                          |
| İZM36625ÇÖK | 36                       | 5,701                                                 | 826                          | 931                          | 1.031                        | 1.136                        |
| İZM40625ÇÖK | 40                       | 7,038                                                 | 1.019                        | 1.149                        | 1.273                        |                              |
| İZM44625ÇÖK | 44                       | 8,516                                                 | 1.234                        | 1.391                        | 1.540                        |                              |
| İZM48625ÇÖK | 48                       | 10,135                                                | 1.468                        | 1.655                        |                              |                              |
| İZM52625ÇÖK | 52                       | 11,894                                                | 1.723                        | 1.942                        |                              |                              |
| İZM56625ÇÖK | 56                       | 13,795                                                | 1.998                        |                              |                              |                              |



ŞENOL MAKİNA

**6x25F IWRC  
6 (1+6+6F+12)**



Çap Aralığı: 8-73(mm)  
Tel Sayısı: 199  
Doluluk Oranı: 0,571  
Dönme Oranı: 0,792

Diameter Range: 8-73(mm)  
Number Of Wires: 199  
Average Fill Factor: 0,571  
Average Spin Factor: 0,792

**6x25F IWRC  
6 (1+6+6F+12)  
COMPACT**



Çap Aralığı: 8-56(mm)  
Tel Sayısı: 199  
Doluluk Oranı: 0,603  
Dönme Oranı: 0,792

Diameter Range: 8-56(mm)  
Number Of Wires: 199  
Average Fill Factor: 0,603  
Average Spin Factor: 0,792



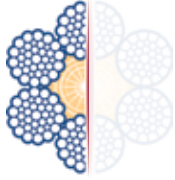
**ÇELİK HALAT**  
çelik halat ve tel sanayii a.ş.

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.



ŞENOL MAKİNA

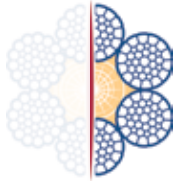
**6 x 36WS FC**  
**6[1+7+(7+7)+14]**



Çap Aralığı: 8-80(mm)  
Tel Sayısı: 216  
Doluluk Oranı: 0,500  
Dönme Oranı: 0,839

Diameter Range: 8-80(mm)  
Number Of Wires: 216  
Average Fill Factor: 0,500  
Average Spin Factor: 0,839

**6 x 36WS FC**  
**COMPACT**



Çap Aralığı: 8-56(mm)  
Tel Sayısı: 216  
Doluluk Oranı: 0,527  
Dönme Oranı: 0,839

Diameter Range: 8-56(mm)  
Number Of Wires: 216  
Average Fill Factor: 0,527  
Average Spin Factor: 0,839

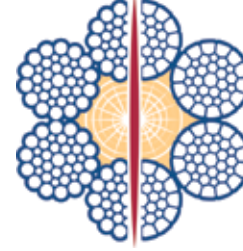


**ÇELİK HALAT**  
çelik halat ve tel sanayi a.ş.

## ÇELİK HALATLAR STEEL WIRE ROPES



► **6x36WS LİF ÖZLÜ ÇELİK HALAT**  
6x36WS FIBRE CORE STEEL WIRE ROPES



► **6x36WS LİF ÖZLÜ COMPACT ÇELİK HALAT**  
6x36WS FIBRE CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 6 x 36WS FC<br>6[1+7+(7+7)+14] |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|--------------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)        | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM8636KÖ   | 8                              | 0,235                       | 33,2                                                  | 37,4                         | 41,4                         | 45,6                         |
| İZM9636KÖ   | 9                              | 0,297                       | 42,0                                                  | 47,3                         | 52,4                         | 57,7                         |
| İZM10636KÖ  | 10                             | 0,367                       | 51,8                                                  | 58,4                         | 64,7                         | 71,3                         |
| İZM11636KÖ  | 11                             | 0,444                       | 62,7                                                  | 70,7                         | 78,3                         | 86,2                         |
| İZM12636KÖ  | 12                             | 0,529                       | 74,6                                                  | 84,1                         | 93,1                         | 103                          |
| İZM13636KÖ  | 13                             | 0,621                       | 87,6                                                  | 98,7                         | 109                          | 120                          |
| İZM14636KÖ  | 14                             | 0,720                       | 102                                                   | 114                          | 127                          | 140                          |
| İZM15636KÖ  | 15                             | 0,826                       | 117                                                   | 131                          | 146                          | 160                          |
| İZM16636KÖ  | 16                             | 0,940                       | 133                                                   | 150                          | 166                          | 182                          |
| İZM18636KÖ  | 18                             | 1,190                       | 168                                                   | 189                          | 210                          | 231                          |
| İZM20636KÖ  | 20                             | 1,469                       | 207                                                   | 234                          | 259                          | 285                          |
| İZM21636KÖ  | 21                             | 1,619                       | 228                                                   | 258                          | 285                          | 314                          |
| İZM22636KÖ  | 22                             | 1,777                       | 251                                                   | 283                          | 313                          | 345                          |
| İZM24636KÖ  | 24                             | 2,115                       | 298                                                   | 336                          | 373                          | 411                          |
| İZM26636KÖ  | 26                             | 2,482                       | 350                                                   | 395                          | 437                          | 482                          |
| İZM28636KÖ  | 28                             | 2,879                       | 406                                                   | 458                          | 507                          | 559                          |
| İZM30636KÖ  | 30                             | 3,305                       | 466                                                   | 526                          | 582                          | 642                          |
| İZM32636KÖ  | 32                             | 3,760                       | 531                                                   | 598                          | 662                          | 730                          |
| İZM34636KÖ  | 34                             | 4,245                       | 599                                                   | 675                          | 748                          | 824                          |
| İZM36636KÖ  | 36                             | 4,759                       | 671                                                   | 757                          | 838                          | 924                          |
| İZM40636KÖ  | 40                             | 5,875                       | 829                                                   | 935                          | 1.035                        | 1.140                        |
| İZM44636KÖ  | 44                             | 7,109                       | 1.003                                                 | 1.131                        | 1.252                        | 1.380                        |
| İZM48636KÖ  | 48                             | 8,460                       | 1.194                                                 | 1.346                        | 1.490                        |                              |
| İZM52636KÖ  | 52                             | 9,929                       | 1.401                                                 | 1.579                        | 1.749                        |                              |
| İZM56636KÖ  | 56                             | 11,515                      | 1.625                                                 | 1.832                        | 2.028                        |                              |
| İZM60636KÖ  | 60                             | 13,219                      | 1.865                                                 | 2.103                        | 2.328                        |                              |

| KOD<br>CODE | 6 x 36WS FC<br>COMPACT  |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM8636KÖK  | 8                       | 0,253                       | 39,1                                                  | 44,1                         | 48,8                         | 51,1                         |
| İZM9636KÖK  | 9                       | 0,321                       | 49,5                                                  | 55,8                         | 61,8                         | 64,7                         |
| İZM10636KÖK | 10                      | 0,396                       | 61,1                                                  | 68,9                         | 76,3                         | 79,8                         |
| İZM11636KÖK | 11                      | 0,479                       | 74,0                                                  | 83,4                         | 92,4                         | 96,6                         |
| İZM12636KÖK | 12                      | 0,570                       | 88,0                                                  | 99,3                         | 110                          | 115                          |
| İZM13636KÖK | 13                      | 0,669                       | 103                                                   | 116                          | 129                          | 135                          |
| İZM14636KÖK | 14                      | 0,776                       | 120                                                   | 135                          | 150                          | 156                          |
| İZM15636KÖK | 15                      | 0,891                       | 138                                                   | 155                          | 172                          | 180                          |
| İZM16636KÖK | 16                      | 1,034                       | 159                                                   | 179                          | 199                          | 208                          |
| İZM18636KÖK | 18                      | 1,308                       | 201                                                   | 227                          | 251                          | 263                          |
| İZM20636KÖK | 20                      | 1,615                       | 249                                                   | 280                          | 310                          | 325                          |
| İZM21636KÖK | 21                      | 1,781                       | 274                                                   | 309                          | 342                          | 358                          |
| İZM22636KÖK | 22                      | 1,954                       | 301                                                   | 339                          | 376                          | 393                          |
| İZM24636KÖK | 24                      | 2,326                       | 358                                                   | 404                          | 447                          | 468                          |
| İZM26636KÖK | 26                      | 2,730                       | 420                                                   | 474                          | 525                          | 549                          |
| İZM28636KÖK | 28                      | 3,166                       | 487                                                   | 550                          | 609                          | 637                          |
| İZM30636KÖK | 30                      | 3,634                       | 560                                                   | 631                          | 699                          | 731                          |
| İZM32636KÖK | 32                      | 4,135                       | 637                                                   | 718                          | 795                          | 832                          |
| İZM34636KÖK | 34                      | 4,668                       | 719                                                   | 810                          | 897                          | 939                          |
| İZM36636KÖK | 36                      | 5,233                       | 806                                                   | 908                          | 1006                         | 1053                         |
| İZM40636KÖK | 40                      | 6,461                       | 995                                                   | 1121                         | 1242                         | 1300                         |
| İZM44636KÖK | 44                      | 7,817                       | 1204                                                  | 1357                         | 1503                         |                              |
| İZM48636KÖK | 48                      | 9,303                       | 1432                                                  | 1615                         | 1788                         |                              |
| İZM52636KÖK | 52                      | 10,919                      | 1681                                                  | 1895                         |                              |                              |
| İZM56636KÖK | 56                      | 12,663                      | 1950                                                  | 2198                         |                              |                              |

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.

# ÇELİK HALATLAR STEEL WIRE ROPES



► **6x36WS ÇELİK ÖZLÜ ÇELİK HALAT**  
6x36VVS STEEL CORE STEEL WIRE ROPES



► **6x36WS ÇELİK ÖZLÜ COMPACT ÇELİK HALAT**  
6x36VVS STEEL CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 6 x 36WS IWRC<br>6[1+7+(7+7)+14] | MINİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|----------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)          | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM8636ÇÖ   | 8                                | 0,262                                                 | 35,8                         | 40,3                         | 44,7                         | 49,2                         |
| İZM9636ÇÖ   | 9                                | 0,332                                                 | 45,3                         | 51,0                         | 56,5                         | 62,3                         |
| İZM10636ÇÖ  | 10                               | 0,409                                                 | 55,9                         | 63,0                         | 69,8                         | 76,9                         |
| İZM11636ÇÖ  | 11                               | 0,495                                                 | 67,6                         | 76,2                         | 84,4                         | 93,0                         |
| İZM12636ÇÖ  | 12                               | 0,590                                                 | 80,5                         | 90,7                         | 100                          | 111                          |
| İZM13636ÇÖ  | 13                               | 0,692                                                 | 94,5                         | 106                          | 118                          | 130                          |
| İZM14636ÇÖ  | 14                               | 0,802                                                 | 110                          | 124                          | 137                          | 151                          |
| İZM15636ÇÖ  | 15                               | 0,921                                                 | 126                          | 142                          | 157                          | 173                          |
| İZM16636ÇÖ  | 16                               | 1,048                                                 | 143                          | 161                          | 179                          | 197                          |
| İZM18636ÇÖ  | 18                               | 1,326                                                 | 181                          | 204                          | 226                          | 249                          |
| İZM20636ÇÖ  | 20                               | 1,638                                                 | 224                          | 252                          | 279                          | 308                          |
| İZM21636ÇÖ  | 21                               | 1,805                                                 | 246                          | 278                          | 308                          | 339                          |
| İZM22636ÇÖ  | 22                               | 1,981                                                 | 271                          | 305                          | 338                          | 372                          |
| İZM24636ÇÖ  | 24                               | 2,358                                                 | 322                          | 363                          | 402                          | 443                          |
| İZM26636ÇÖ  | 26                               | 2,767                                                 | 378                          | 426                          | 472                          | 520                          |
| İZM28636ÇÖ  | 28                               | 3,210                                                 | 438                          | 494                          | 547                          | 603                          |
| İZM30636ÇÖ  | 30                               | 3,684                                                 | 503                          | 567                          | 628                          | 692                          |
| İZM32636ÇÖ  | 32                               | 4,192                                                 | 572                          | 645                          | 715                          | 787                          |
| İZM34636ÇÖ  | 34                               | 4,732                                                 | 646                          | 728                          | 807                          | 889                          |
| İZM36636ÇÖ  | 36                               | 5,306                                                 | 724                          | 817                          | 904                          | 997                          |
| İZM40636ÇÖ  | 40                               | 6,550                                                 | 894                          | 1.008                        | 1.116                        | 1.230                        |
| İZM44636ÇÖ  | 44                               | 7,926                                                 | 1.082                        | 1.220                        | 1.351                        | 1.489                        |
| İZM48636ÇÖ  | 48                               | 9,432                                                 | 1.288                        | 1.452                        | 1.608                        |                              |
| İZM52636ÇÖ  | 52                               | 11,070                                                | 1.511                        | 1.704                        | 1.887                        |                              |
| İZM56636ÇÖ  | 56                               | 12,838                                                | 1.753                        | 1.976                        | 2.188                        |                              |
| İZM60636ÇÖ  | 60                               | 14,738                                                | 2.012                        | 2.268                        | 2.512                        |                              |

| KOD<br>CODE | 6 x 36WS IWRC<br>COMPACT | MINİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|--------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)  | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM8636ÇÖK  | 8                        | 0,282                                                 | 42,2                         | 47,6                         | 52,7                         | 55,1                         |
| İZM9636ÇÖK  | 9                        | 0,358                                                 | 53,4                         | 60,2                         | 66,7                         | 69,8                         |
| İZM10636ÇÖK | 10                       | 0,441                                                 | 66,0                         | 74,4                         | 82,3                         | 86,1                         |
| İZM11636ÇÖK | 11                       | 0,534                                                 | 79,8                         | 90,0                         | 99,6                         | 104                          |
| İZM12636ÇÖK | 12                       | 0,636                                                 | 95,0                         | 107                          | 119                          | 124                          |
| İZM13636ÇÖK | 13                       | 0,746                                                 | 111                          | 126                          | 139                          | 146                          |
| İZM14636ÇÖK | 14                       | 0,865                                                 | 129                          | 146                          | 161                          | 169                          |
| İZM15636ÇÖK | 15                       | 0,993                                                 | 148                          | 167                          | 185                          | 194                          |
| İZM16636ÇÖK | 16                       | 1,152                                                 | 172                          | 194                          | 214                          | 224                          |
| İZM18636ÇÖK | 18                       | 1,459                                                 | 217                          | 245                          | 271                          | 284                          |
| İZM20636ÇÖK | 20                       | 1,801                                                 | 268                          | 302                          | 335                          | 351                          |
| İZM21636ÇÖK | 21                       | 1,985                                                 | 296                          | 333                          | 369                          | 387                          |
| İZM22636ÇÖK | 22                       | 2,179                                                 | 325                          | 366                          | 405                          | 424                          |
| İZM24636ÇÖK | 24                       | 2,593                                                 | 386                          | 436                          | 482                          | 505                          |
| İZM26636ÇÖK | 26                       | 3,043                                                 | 453                          | 511                          | 566                          | 593                          |
| İZM28636ÇÖK | 28                       | 3,529                                                 | 526                          | 593                          | 656                          | 687                          |
| İZM30636ÇÖK | 30                       | 4,052                                                 | 604                          | 681                          | 754                          | 789                          |
| İZM32636ÇÖK | 32                       | 4,610                                                 | 687                          | 774                          | 857                          | 898                          |
| İZM34636ÇÖK | 34                       | 5,204                                                 | 775                          | 874                          | 968                          | 1013                         |
| İZM36636ÇÖK | 36                       | 5,834                                                 | 869                          | 980                          | 1085                         | 1136                         |
| İZM40636ÇÖK | 40                       | 7,203                                                 | 1073                         | 1210                         | 1340                         | 1403                         |
| İZM44636ÇÖK | 44                       | 8,716                                                 | 1298                         | 1464                         | 1621                         |                              |
| İZM48636ÇÖK | 48                       | 10,372                                                | 1545                         | 1742                         | 1929                         |                              |
| İZM52636ÇÖK | 52                       | 12,173                                                | 1814                         | 2045                         |                              |                              |
| İZM56636ÇÖK | 56                       | 14,118                                                | 2103                         | 2371                         |                              |                              |



ŞENOL MAKİNA

**6 x 36WS IWRC**  
**6[1+7+(7+7)+14]**



Çap Aralığı: 8-80(mm)  
Tel Sayısı: 265  
Doluluk Oranı: 0,585  
Dönme Oranı: 0,773

Diameter Range: 8-80(mm)  
Number Of Wires: 265  
Average Fill Factor: 0,585  
Average Spin Factor: 0,773

**6 x 36WS IWRC**  
**COMPACT**



Çap Aralığı: 8-56(mm)  
Tel Sayısı: 265  
Doluluk Oranı: 0,617  
Dönme Oranı: 0,773

Diameter Range: 8-56(mm)  
Number Of Wires: 265  
Average Fill Factor: 0,617  
Average Spin Factor: 0,773

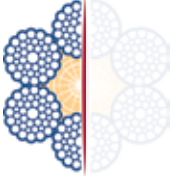


**ÇELİK HALAT**  
çelik halat ve tel sanayii a.ş.



ŞENOL MAKİNA

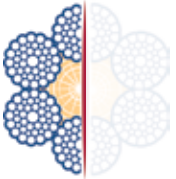
**6 x 41WS FC**  
**6[1+8+(8+8)+16]**



Çap Aralığı: 12-64(mm)  
Tel Sayısı: 246  
Doluluk Oranı: 0,500  
Dönme Oranı: 0,839

Diameter Range: 12-64(mm)  
Number Of Wires: 246  
Average Fill Factor: 0,500  
Average Spin Factor: 0,839

**6 x 41WS FC**  
**COMPACT**



Çap Aralığı: 12-56(mm)  
Tel Sayısı: 246  
Doluluk Oranı: 0,527  
Dönme Oranı: 0,839

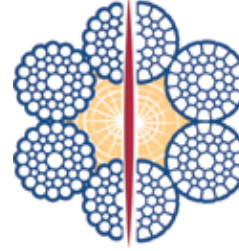
Diameter Range: 12-56(mm)  
Number Of Wires: 246  
Average Fill Factor: 0,527  
Average Spin Factor: 0,839



## ÇELİK HALATLAR STEEL WIRE ROPES



► **6x41WS LİF ÖZLÜ ÇELİK HALAT**  
6x41WS FIBRE CORE STEEL WIRE ROPES



► **6x41WS LİF ÖZLÜ COMPACT ÇELİK HALAT**  
6x41WS FIBRE CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 6 x 41WS FC<br>6[1+8+(8+8)+16] |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|--------------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)        | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM12641KÖ  | 12                             | 0,529                       | 74,6                                                  | 84,1                         | 93,1                         | 103                          |
| İZM13141KÖ  | 13                             | 0,621                       | 87,6                                                  | 98,7                         | 109                          | 120                          |
| İZM14641KÖ  | 14                             | 0,720                       | 102                                                   | 114                          | 127                          | 140                          |
| İZM15641KÖ  | 15                             | 0,827                       | 117                                                   | 131                          | 146                          | 160                          |
| İZM16641KÖ  | 16                             | 0,940                       | 133                                                   | 150                          | 166                          | 182                          |
| İZM18641KÖ  | 18                             | 1,190                       | 168                                                   | 189                          | 210                          | 231                          |
| İZM20641KÖ  | 20                             | 1,469                       | 207                                                   | 234                          | 259                          | 285                          |
| İZM21641KÖ  | 21                             | 1,620                       | 228                                                   | 258                          | 285                          | 314                          |
| İZM22641KÖ  | 22                             | 1,778                       | 251                                                   | 283                          | 313                          | 345                          |
| İZM23141KÖ  | 23                             | 1,943                       | 274                                                   | 309                          | 342                          | 377                          |
| İZM24641KÖ  | 24                             | 2,116                       | 298                                                   | 336                          | 373                          | 411                          |
| İZM25641KÖ  | 25                             | 2,296                       | 324                                                   | 365                          | 404                          | 446                          |
| İZM26641KÖ  | 26                             | 2,483                       | 350                                                   | 395                          | 437                          | 482                          |
| İZM28641KÖ  | 28                             | 2,880                       | 406                                                   | 458                          | 507                          | 559                          |
| İZM30641KÖ  | 30                             | 3,306                       | 466                                                   | 526                          | 582                          | 642                          |
| İZM32641KÖ  | 32                             | 3,762                       | 531                                                   | 598                          | 662                          | 730                          |
| İZM34641KÖ  | 34                             | 4,247                       | 599                                                   | 675                          | 748                          | 824                          |
| İZM36641KÖ  | 36                             | 4,761                       | 671                                                   | 757                          | 838                          | 924                          |
| İZM38641KÖ  | 38                             | 5,305                       | 748                                                   | 843                          | 934                          |                              |
| İZM40641KÖ  | 40                             | 5,878                       | 829                                                   | 935                          | 1.035                        |                              |
| İZM42641KÖ  | 42                             | 6,480                       | 914                                                   | 1.030                        | 1.141                        |                              |
| İZM44641KÖ  | 44                             | 7,112                       | 1.003                                                 | 1.131                        | 1.252                        |                              |
| İZM48641KÖ  | 48                             | 8,464                       | 1.194                                                 | 1.346                        | 1.490                        |                              |
| İZM52641KÖ  | 52                             | 9,933                       | 1.401                                                 | 1.579                        | 1.749                        |                              |
| İZM56641KÖ  | 56                             | 11,520                      | 1.625                                                 | 1.832                        |                              |                              |
| İZM60641KÖ  | 60                             | 13,225                      | 1.865                                                 | 2.103                        |                              |                              |

| KOD<br>CODE | 6 x 41WS FC<br>COMPACT  |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM12641KÖK | 12                      | 0,570                       | 88,0                                                  | 99,3                         | 110                          | 115                          |
| İZM13141KÖK | 13                      | 0,669                       | 103                                                   | 116                          | 129                          | 135                          |
| İZM14641KÖK | 14                      | 0,776                       | 120                                                   | 135                          | 150                          | 156                          |
| İZM15641KÖK | 15                      | 0,891                       | 138                                                   | 155                          | 172                          | 180                          |
| İZM16641KÖK | 16                      | 1,034                       | 159                                                   | 179                          | 199                          | 208                          |
| İZM18641KÖK | 18                      | 1,309                       | 201                                                   | 227                          | 251                          | 263                          |
| İZM20641KÖK | 20                      | 1,616                       | 249                                                   | 280                          | 310                          | 325                          |
| İZM21641KÖK | 21                      | 1,782                       | 274                                                   | 309                          | 342                          | 358                          |
| İZM22641KÖK | 22                      | 1,955                       | 301                                                   | 339                          | 376                          | 393                          |
| İZM23141KÖK | 23                      | 2,137                       | 329                                                   | 371                          | 411                          | 430                          |
| İZM24641KÖK | 24                      | 2,327                       | 358                                                   | 404                          | 447                          | 468                          |
| İZM25641KÖK | 25                      | 2,525                       | 389                                                   | 438                          | 485                          | 508                          |
| İZM26641KÖK | 26                      | 2,731                       | 420                                                   | 474                          | 525                          | 549                          |
| İZM28641KÖK | 28                      | 3,167                       | 487                                                   | 550                          | 609                          | 637                          |
| İZM30641KÖK | 30                      | 3,636                       | 560                                                   | 631                          | 699                          | 731                          |
| İZM32641KÖK | 32                      | 4,137                       | 637                                                   | 718                          | 795                          | 832                          |
| İZM34641KÖK | 34                      | 4,670                       | 719                                                   | 810                          | 897                          | 939                          |
| İZM36641KÖK | 36                      | 5,236                       | 806                                                   | 908                          | 1006                         |                              |
| İZM38641KÖK | 38                      | 5,834                       | 898                                                   | 1012                         | 1121                         |                              |
| İZM40641KÖK | 40                      | 6,464                       | 995                                                   | 1121                         | 1242                         |                              |
| İZM42641KÖK | 42                      | 7,126                       | 1097                                                  | 1236                         |                              |                              |
| İZM44641KÖK | 44                      | 7,821                       | 1204                                                  | 1357                         |                              |                              |
| İZM48641KÖK | 48                      | 9,308                       | 1432                                                  | 1615                         |                              |                              |
| İZM52641KÖK | 52                      | 10,924                      | 1681                                                  |                              |                              |                              |
| İZM56641KÖK | 56                      | 12,669                      | 1950                                                  |                              |                              |                              |

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.

## ÇELİK HALATLAR STEEL WIRE ROPES



► **6x41WS ÇELİK ÖZLÜ ÇELİK HALAT**  
6x41WS STEEL CORE STEEL WIRE ROPES



► **6x41WS ÇELİK ÖZLÜ COMPACT ÇELİK HALAT**  
6x41WS STEEL CORE COMPACT STEEL WIRE ROPES



| KOD<br>CODE | 6 x 41WS IWRC<br>6[1+8+(8+8)+16] | MINIMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|----------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)          | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM12641ÇÖ  | 12                               | 0,590                                                 | 80                           | 91                           | 100                          | 111                          |
| İZM13641ÇÖ  | 13                               | 0,692                                                 | 94                           | 106                          | 118                          | 130                          |
| İZM14641ÇÖ  | 14                               | 0,803                                                 | 110                          | 124                          | 137                          | 151                          |
| İZM15641ÇÖ  | 15                               | 0,922                                                 | 126                          | 142                          | 157                          | 173                          |
| İZM16641ÇÖ  | 16                               | 1,049                                                 | 143                          | 161                          | 179                          | 197                          |
| İZM18641ÇÖ  | 18                               | 1,328                                                 | 181                          | 204                          | 226                          | 249                          |
| İZM20641ÇÖ  | 20                               | 1,639                                                 | 224                          | 252                          | 279                          | 308                          |
| İZM21641ÇÖ  | 21                               | 1,807                                                 | 246                          | 278                          | 308                          | 339                          |
| İZM22641ÇÖ  | 22                               | 1,983                                                 | 271                          | 305                          | 338                          | 372                          |
| İZM24641ÇÖ  | 24                               | 2,360                                                 | 322                          | 363                          | 402                          | 443                          |
| İZM26641ÇÖ  | 26                               | 2,770                                                 | 378                          | 426                          | 472                          | 520                          |
| İZM28641ÇÖ  | 28                               | 3,212                                                 | 438                          | 494                          | 547                          | 603                          |
| İZM30641ÇÖ  | 30                               | 3,688                                                 | 503                          | 567                          | 628                          | 692                          |
| İZM32641ÇÖ  | 32                               | 4,196                                                 | 572                          | 645                          | 715                          | 787                          |
| İZM34641ÇÖ  | 34                               | 4,736                                                 | 646                          | 728                          | 807                          | 889                          |
| İZM36641ÇÖ  | 36                               | 5,310                                                 | 724                          | 817                          | 904                          | 997                          |
| İZM40641ÇÖ  | 40                               | 6,556                                                 | 894                          | 1.008                        | 1.116                        |                              |
| İZM44641ÇÖ  | 44                               | 7,932                                                 | 1.082                        | 1.220                        | 1.351                        |                              |
| İZM48641ÇÖ  | 48                               | 9,440                                                 | 1.288                        | 1.452                        | 1.608                        |                              |
| İZM52641ÇÖ  | 52                               | 11,079                                                | 1.511                        | 1.704                        | 1.887                        |                              |
| İZM56641ÇÖ  | 56                               | 12,849                                                | 1.753                        | 1.976                        |                              |                              |
| İZM60641ÇÖ  | 60                               | 14,75                                                 | 2.012                        | 2.268                        |                              |                              |

| KOD<br>CODE | 6 x 41WS IWRC<br>COMPACT | MINIMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|--------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)  | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM12641ÇÖK | 12                       | 0,636                                                 | 95,0                         | 107                          | 119                          | 124                          |
| İZM13641ÇÖK | 13                       | 0,747                                                 | 111                          | 126                          | 139                          | 146                          |
| İZM14641ÇÖK | 14                       | 0,866                                                 | 129                          | 146                          | 161                          | 169                          |
| İZM15641ÇÖK | 15                       | 0,994                                                 | 148                          | 167                          | 185                          | 194                          |
| İZM16641ÇÖK | 16                       | 1,153                                                 | 172                          | 194                          | 214                          | 224                          |
| İZM18641ÇÖK | 18                       | 1,460                                                 | 217                          | 245                          | 271                          | 284                          |
| İZM20641ÇÖK | 20                       | 1,802                                                 | 268                          | 302                          | 335                          | 351                          |
| İZM21641ÇÖK | 21                       | 1,987                                                 | 296                          | 333                          | 369                          | 387                          |
| İZM22641ÇÖK | 22                       | 2,181                                                 | 325                          | 366                          | 405                          | 424                          |
| İZM24641ÇÖK | 24                       | 2,595                                                 | 386                          | 436                          | 482                          | 505                          |
| İZM26641ÇÖK | 26                       | 3,046                                                 | 453                          | 511                          | 566                          | 593                          |
| İZM28641ÇÖK | 28                       | 3,532                                                 | 526                          | 593                          | 656                          | 687                          |
| İZM30641ÇÖK | 30                       | 4,055                                                 | 604                          | 681                          | 754                          | 789                          |
| İZM32641ÇÖK | 32                       | 4,614                                                 | 687                          | 774                          | 857                          | 898                          |
| İZM34641ÇÖK | 34                       | 5,209                                                 | 775                          | 874                          | 968                          | 1013                         |
| İZM36641ÇÖK | 36                       | 5,839                                                 | 869                          | 980                          | 1085                         |                              |
| İZM40641ÇÖK | 40                       | 7,209                                                 | 1073                         | 1210                         | 1340                         |                              |
| İZM44641ÇÖK | 44                       | 8,723                                                 | 1298                         | 1464                         |                              |                              |
| İZM48641ÇÖK | 48                       | 10,381                                                | 1545                         | 1742                         |                              |                              |
| İZM52641ÇÖK | 52                       | 12,183                                                | 1814                         |                              |                              |                              |
| İZM56641ÇÖK | 56                       | 14,130                                                | 2103                         |                              |                              |                              |



ŞENOL MAKİNA

**6 x 41WS IWRC**  
**6[1+8+(8+8)+16]**



Çap Aralığı: 12-64(mm)  
Tel Sayısı: 295  
Doluluk Oranı: 0,585  
Dönme Oranı: 0,773

Diameter Range: 12-64(mm)  
Number Of Wires: 295  
Average Fill Factor: 0,585  
Average Spin Factor: 0,773

**6 x 41WS IWRC**  
**COMPACT**



Çap Aralığı: 12-56(mm)  
Tel Sayısı: 295  
Doluluk Oranı: 0,617  
Dönme Oranı: 0,773

Diameter Range: 12-56(mm)  
Number Of Wires: 295  
Average Fill Factor: 0,617  
Average Spin Factor: 0,773



**ÇELİK HALAT**  
çelik halat ve tel sanayi a.ş.



ŞENOL MAKİNA

**8x19S FC**  
**8[1+9+9]**



Çap Aralığı: 8-14(mm)  
Tel Sayısı: 152  
Doluluk Oranı: 0,444  
Dönme Oranı: 0,839

Diameter Range: 8-14(mm)  
Number Of Wires: 152  
Average Fill Factor: 0,444  
Average Spin Factor: 0,839

**8x19S IWRC**  
**8[1+9+9]**



Çap Aralığı: 8-14(mm)  
Tel Sayısı: 201  
Doluluk Oranı: 0,581  
Dönme Oranı: 0,779

Diameter Range: 8-14(mm)  
Number Of Wires: 201  
Average Fill Factor: 0,581  
Average Spin Factor: 0,779

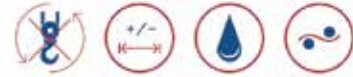


**ÇELİK HALAT**  
çelik halat ve tel sanayi a.ş.

## ÇELİK HALATLAR STEEL WIRE ROPES



No Swivel Tolerance Lubricate Preformed



Compacted No Swivel Tolerance Lubricate Preformed



### ► 8x19S LİF ÖZLÜ ÖN GERMELİ ASANSÖR HALATI 8x19S FIBRE CORE PRE-STRETCHED ELEVATOR WIRE ROPES

| KOD<br>CODE | 8 x 19S FC<br>8[1+9+9]  |                                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|-------------------------|---------------------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm) | ÇAP<br>TOLERANSI<br>Dia<br>Tolerance<br>(%) | AĞIRLIK<br>Weight<br>(kg/m)                           | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] |
| İZM8819KÖ   | 8                       | +5<br>0                                     | 0,218                                                 | 29,4                         | 33,2                         | 36,8                         |
| İZM9819KÖ   | 9                       |                                             | 0,275                                                 | 37,3                         | 42,0                         | 46,5                         |
| İZM10819KÖ  | 10                      |                                             | 0,340                                                 | 46,0                         | 51,9                         | 57,4                         |
| İZM11819KÖ  | 11                      |                                             | 0,411                                                 | 55,7                         | 62,8                         | 69,5                         |
| İZM12819KÖ  | 12                      |                                             | 0,489                                                 | 66,2                         | 74,7                         | 82,7                         |
| İZM13819KÖ  | 13                      |                                             | 0,574                                                 | 77,7                         | 87,6                         | 97,1                         |
| İZM14819KÖ  | 14                      |                                             | 0,665                                                 | 90,2                         | 102                          | 113                          |

### ► 8x19S ÇELİK ÖZLÜ ÖN GERMELİ ASANSÖR HALATI 8x19S STEEL CORE PRE-STRETCHED ELEVATOR WIRE ROPES

| KOD<br>CODE | 8 x 19S IWRC<br>8[1+9+9] |                                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|--------------------------|---------------------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)  | ÇAP<br>TOLERANSI<br>Dia<br>Tolerance<br>(%) | AĞIRLIK<br>Weight<br>(kg/m)                           | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] |
| İZM8819ÇÖ   | 8                        | +5<br>0                                     | 0,260                                                 | 35,8                         | 40,3                         | 44,7                         |
| İZM9819ÇÖ   | 9                        |                                             | 0,330                                                 | 45,3                         | 51,0                         | 56,5                         |
| İZM10819ÇÖ  | 10                       |                                             | 0,407                                                 | 55,9                         | 63,0                         | 69,8                         |
| İZM11819ÇÖ  | 11                       |                                             | 0,493                                                 | 67,6                         | 76,2                         | 84,4                         |
| İZM12819ÇÖ  | 12                       |                                             | 0,587                                                 | 80,5                         | 90,7                         | 100                          |
| İZM13819ÇÖ  | 13                       |                                             | 0,689                                                 | 94,5                         | 106                          | 118                          |
| İZM14819ÇÖ  | 14                       |                                             | 0,799                                                 | 110                          | 124                          | 137                          |

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.

# ÇELİK HALATLAR STEEL WIRE ROPES

## ÖZEL HALATLARIN SAĞLADIĞI AVANTAJLAR

- Yüksek yük dayanımı
- Aşınmaya karşı direnç
- Uzun hizmet/ servis ömrü
- Dönme direnci
- Düşük uzama

## Advantages of special wire ropes

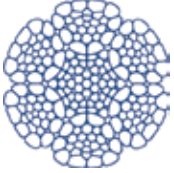
- More loading capacity
- Resistance to abrasion
- Long service life
- Rotation resistance
- Low elongated elevator ropes



### Compact Çelik Halatlar (ÇelikRope K) Compacted Wire Ropes (CelikRope K)

Kompakt halatlar, standart halatlara kıyasla aynı çaplarda daha fazla yük taşıma kapasitesine sahiptir. Aşınmaya karşı daha dirençli olduklarından kullanım ömürleri daha uzundur. Bir çok farklı kompozisyona uygulanabilir. Yaygın olarak 6x19S, 6x26WS, 6x36WS, 18x7 ve 35x7'de tercih edilir.

Compacted ropes have more load bearing capacities than the standard ropes with same diameters. Abrasion is less and usage lives are longer as they contact the reel surfaces in a larger area. Different rope compositions may be used in compact rope manufacture. However 6x19 Seale 6x26 Warrington Seale, 6x36 Warrington Seale, 18x7 ropes are preferred.



### Swaged Çelik Halatlar (ÇelikForest) Swaged Wire Ropes (CelikForest)

Swaged Halatların temas yüzeyleri yüksek olduğundan dönme eğilimleri düşüktür. Standart halatlara kıyasla aynı çapa daha yüksek taşıma kapasitesi sağlar ve uzun ömürlüdür. Sıklıkla 6x26WS ve 6x19 Seale grubu halatlara uygulanır.

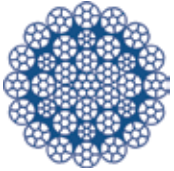
Swaged ropes have advantages such as supplying coils with larger contact areas, decreasing internal stress, lifting more loads than that of the ropes with the same diameters and having longer lifetime. In Swaged ropes production primarily 6x26 Warrington Seale and 6x19 Seale ropes are used.



### Özü Plastik Kaplı Çelik Halatlar (Çelikİp) Plastic Coated Core Wire Rope (CelikRope)

Özü plastik kaplı halatlar, uzun bakım süreleri, öz koruması, korozyona karşı koruması ve vinçlerde daha sessiz çalışma gibi avantajlar sağlar.

Ropes which cores coated with plastic have advantages such as having longer service lifetime and protection of internal wires effectively against corrosion also operating in silence in cranes.



### Dönme Dayanımlı Çelik Halatlar (ÇelikFlex) Rotation Resistant Wire Ropes (CelikFlex)

Çelik halatlar yapısal özellikleri sebebiyle dönme eğilimlidir. Kaldırma operasyonlarının hızı ve yükseliğine bağlı olarak bu eğilim de artar. Bu sebeple yüksek irtifa kaldırma operasyonlarında çok sarmallı, dönme dayanımlı halatlar tercih edilmelidir.

Steel wire ropes indicate rotation behaviour due to their helical structure. Lifting is adversely affected as the rope rotates in high-altitude lifting operations. For this reason, non-rotation ropes with multi-layered construction are preferred for high-altitude lifting operations.



### Ön Germeli Asansör Halatları (ÇelikLift+) Pre-stretched Elevator Wire Ropes (CelikLift+)

Asansör halatları kullanma bağlı olarak yapısal uzamaya maruz kalmaktadır. Kurulum sonrasında bu uzamaya bağlı olarak yeniden düzenleme yapılır. İmalat sırasında uygulanan ön görme işlemi bu düzenlemelerin daha sağlıklı yapılmasını sağlamakta, yapısal uzamaları minimize etmektedir.

The elevator ropes are exposed to constructional elongation during use due to their fiber core structure. Due to this elongation, the rope length must be readjusted after the first installation in the elevators. By preventing this elongation in the production process, the need for re-adjustment is eliminated. The structural elongation of the rope is prevented by the pre-tensioning process applied to the ropes in the manufacturing process.



ŞENOL MAKİNA



ÇELİK HALAT  
çelik halat ve tel sanayii a.ş.



ŞENOL MAKİNA

**18 x 7 FC**  
**[FC+6(1+6)+12(1+6)]**



Çap Aralığı: 8-36(mm)  
Tel Sayısı: 126  
Doluluk Oranı: 0,530  
Dönme Oranı: 0,757

Diameter Range: 8-36(mm)  
Number Of Wires: 126  
Average Fill Factor: 0,530  
Average Spin Factor: 0,757

**18 x 7 FC**  
**COMPACT**

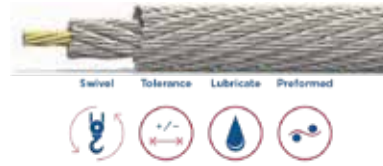


Çap Aralığı: 8-36(mm)  
Tel Sayısı: 126  
Doluluk Oranı: 0,559  
Dönme Oranı: 0,757

Diameter Range: 8-36(mm)  
Number Of Wires: 126  
Average Fill Factor: 0,559  
Average Spin Factor: 0,757



## ÇELİK HALATLAR STEEL WIRE ROPES



► **18x7 LİF ÖZLÜ ÇELİK HALAT**  
18x7 FIBRE CORE STEEL WIRE ROPES



► **18x7 LİF ÖZLÜ COMPACT ÇELİK HALAT**  
18x7 FIBRE CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 18 x 7 FC<br>[FC+6(1+6)+12(1+6)] | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |                              |
|-------------|----------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)          | AĞIRLIK<br>Weight<br>(kg/m)                           | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM8187KÖ   | 8                                | 0,2453                                                | 33,0                         | 37,2                         | 41,1                         | 45,3                         |
| İZM9187KÖ   | 9                                | 0,3105                                                | 41,7                         | 47,0                         | 52,1                         | 57,4                         |
| İZM10187KÖ  | 10                               | 0,3833                                                | 51,5                         | 58,1                         | 64,3                         | 70,8                         |
| İZM11187KÖ  | 11                               | 0,4638                                                | 62,3                         | 70,2                         | 77,8                         | 85,7                         |
| İZM12187KÖ  | 12                               | 0,5520                                                | 74                           | 83,6                         | 92,6                         | 102                          |
| İZM13187KÖ  | 13                               | 0,6478                                                | 87                           | 98,1                         | 109                          | 120                          |
| İZM14187KÖ  | 14                               | 0,7513                                                | 101                          | 114                          | 126                          | 139                          |
| İZM15187KÖ  | 15                               | 0,8625                                                | 116                          | 131                          | 145                          | 159                          |
| İZM16187KÖ  | 16                               | 0,9813                                                | 132                          | 149                          | 165                          | 181                          |
| İZM17187KÖ  | 17                               | 1,1078                                                | 149                          | 168                          | 186                          | 205                          |
| İZM18187KÖ  | 18                               | 1,2420                                                | 167                          | 188                          | 208                          | 230                          |
| İZM19187KÖ  | 19                               | 1,3838                                                | 186                          | 210                          | 232                          | 256                          |
| İZM20187KÖ  | 20                               | 1,5333                                                | 206                          | 232                          | 257                          | 283                          |
| İZM21187KÖ  | 21                               | 1,6905                                                | 227                          | 256                          | 284                          | 312                          |
| İZM22187KÖ  | 22                               | 1,8553                                                | 249                          | 281                          | 311                          | 343                          |
| İZM23187KÖ  | 23                               | 2,0278                                                | 272                          | 307                          | 340                          | 375                          |
| İZM24187KÖ  | 24                               | 2,2080                                                | 297                          | 334                          | 370                          | 408                          |
| İZM25187KÖ  | 25                               | 2,3958                                                | 322                          | 363                          | 402                          | 443                          |
| İZM26187KÖ  | 26                               | 2,5913                                                | 348                          | 392                          | 435                          | 479                          |
| İZM27187KÖ  | 27                               | 2,7945                                                | 375                          | 423                          | 469                          | 516                          |
| İZM28187KÖ  | 28                               | 3,0053                                                | 404                          | 455                          | 504                          | 555                          |
| İZM29187KÖ  | 29                               | 3,2238                                                | 433                          | 488                          | 541                          | 596                          |
| İZM30187KÖ  | 30                               | 3,4500                                                | 463                          | 523                          | 579                          | 638                          |
| İZM36187KÖ  | 36                               | 4,9680                                                | 667                          | 752                          | 833                          | 918                          |

| KOD<br>CODE | 18 x 7 FC<br>COMPACT    | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |                              |
|-------------|-------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m)                           | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM8187KÖK  | 8                       | 0,2588                                                | 38,9                         | 43,8                         | 48,6                         | 50,8                         |
| İZM9187KÖK  | 9                       | 0,3276                                                | 49,2                         | 55,5                         | 61,4                         | 64,3                         |
| İZM10187KÖK | 10                      | 0,4044                                                | 60,8                         | 68,5                         | 75,9                         | 79,3                         |
| İZM11187KÖK | 11                      | 0,4893                                                | 73,5                         | 82,9                         | 91,8                         | 96,0                         |
| İZM12187KÖK | 12                      | 0,5824                                                | 88                           | 99                           | 109                          | 114                          |
| İZM13187KÖK | 13                      | 0,6835                                                | 103                          | 116                          | 128                          | 134                          |
| İZM14187KÖK | 14                      | 0,7927                                                | 119                          | 134                          | 149                          | 156                          |
| İZM15187KÖK | 15                      | 0,9099                                                | 137                          | 154                          | 171                          | 179                          |
| İZM16187KÖK | 16                      | 1,0353                                                | 156                          | 175                          | 194                          | 203                          |
| İZM17187KÖK | 17                      | 1,1688                                                | 176                          | 198                          | 219                          | 229                          |
| İZM18187KÖK | 18                      | 1,3103                                                | 197                          | 222                          | 246                          | 257                          |
| İZM19187KÖK | 19                      | 1,4599                                                | 219                          | 247                          | 274                          | 286                          |
| İZM20187KÖK | 20                      | 1,6177                                                | 243                          | 274                          | 303                          | 317                          |
| İZM21187KÖK | 21                      | 1,7835                                                | 268                          | 302                          | 335                          | 350                          |
| İZM22187KÖK | 22                      | 1,9574                                                | 294                          | 332                          | 367                          | 384                          |
| İZM23187KÖK | 23                      | 2,1394                                                | 321                          | 362                          | 401                          | 420                          |
| İZM24187KÖK | 24                      | 2,3294                                                | 350                          | 395                          | 437                          | 457                          |
| İZM25187KÖK | 25                      | 2,5276                                                | 380                          | 428                          | 474                          | 496                          |
| İZM26187KÖK | 26                      | 2,7339                                                | 411                          | 463                          | 513                          | 536                          |
| İZM27187KÖK | 27                      | 2,9482                                                | 443                          | 499                          | 553                          | 578                          |
| İZM28187KÖK | 28                      | 3,1706                                                | 476                          | 537                          | 595                          | 622                          |
| İZM29187KÖK | 29                      | 3,4011                                                | 511                          | 576                          | 638                          | 667                          |
| İZM30187KÖK | 30                      | 3,6398                                                | 547                          | 617                          | 683                          | 714                          |
| İZM36187KÖK | 36                      | 5,2412                                                | 788                          | 888                          | 983                          | 1028                         |

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.

# ÇELİK HALATLAR STEEL WIRE ROPES



## ► 19x7 ÇELİK ÖZLÜ ÇELİK HALAT 19x7 STEEL CORE STEEL WIRE ROPES

## ► 19x7 ÇELİK ÖZLÜ COMPACT ÇELİK HALAT 19x7 STEEL CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 19 x 7 WSC<br>[(1+6)+6(1+6)+12(1+6)] |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|--------------------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)              | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM8197ÇÖ   | 8                                    | 0.2560                      | 33.0                                                  | 37.2                         | 41.1                         | 45.3                         |
| İZM9197ÇÖ   | 9                                    | 0.3240                      | 41.7                                                  | 47.0                         | 52.1                         | 57.4                         |
| İZM10197ÇÖ  | 10                                   | 0.4000                      | 51.5                                                  | 58.1                         | 64.3                         | 70.8                         |
| İZM11197ÇÖ  | 11                                   | 0.4840                      | 62.3                                                  | 70.2                         | 77.8                         | 85.7                         |
| İZM12197ÇÖ  | 12                                   | 0.5760                      | 74                                                    | 84                           | 93                           | 102                          |
| İZM13197ÇÖ  | 13                                   | 0.6760                      | 87                                                    | 98                           | 109                          | 120                          |
| İZM14197ÇÖ  | 14                                   | 0.7840                      | 101                                                   | 114                          | 126                          | 139                          |
| İZM15197ÇÖ  | 15                                   | 0.9000                      | 116                                                   | 131                          | 145                          | 159                          |
| İZM168197ÇÖ | 16                                   | 1.0240                      | 132                                                   | 149                          | 165                          | 181                          |
| İZM17197ÇÖ  | 17                                   | 1.1560                      | 149                                                   | 168                          | 186                          | 205                          |
| İZM18197ÇÖ  | 18                                   | 1.2960                      | 167                                                   | 188                          | 208                          | 230                          |
| İZM19197ÇÖ  | 19                                   | 1.4440                      | 186                                                   | 210                          | 232                          | 256                          |
| İZM20197ÇÖ  | 20                                   | 1.6000                      | 206                                                   | 232                          | 257                          | 283                          |
| İZM21197ÇÖ  | 21                                   | 1.7640                      | 227                                                   | 256                          | 284                          | 312                          |
| İZM22197ÇÖ  | 22                                   | 1.9360                      | 249                                                   | 281                          | 311                          | 343                          |
| İZM23197ÇÖ  | 23                                   | 2.1160                      | 272                                                   | 307                          | 340                          | 375                          |
| İZM24197ÇÖ  | 24                                   | 2.3040                      | 297                                                   | 334                          | 370                          | 408                          |
| İZM25197ÇÖ  | 25                                   | 2.5000                      | 322                                                   | 363                          | 402                          | 443                          |
| İZM26197ÇÖ  | 26                                   | 2.7040                      | 348                                                   | 392                          | 435                          | 479                          |
| İZM27197ÇÖ  | 27                                   | 2.9160                      | 375                                                   | 423                          | 469                          | 516                          |
| İZM28197ÇÖ  | 28                                   | 3.1360                      | 404                                                   | 455                          | 504                          | 555                          |
| İZM29197ÇÖ  | 29                                   | 3.3640                      | 433                                                   | 488                          | 541                          | 596                          |
| İZM30197ÇÖ  | 30                                   | 3.6000                      | 463                                                   | 523                          | 579                          | 638                          |
| İZM36197ÇÖ  | 36                                   | 5.1840                      | 667                                                   | 752                          | 833                          | 918                          |

| KOD<br>CODE  | 19 x 7 WSC<br>COMPACT   |                             | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|--------------|-------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|              | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM8197ÇÖK   | 8                       | 0.270                       | 38.9                                                  | 43.8                         | 48.6                         | 50.8                         |
| İZM9197ÇÖK   | 9                       | 0.342                       | 49.2                                                  | 55.5                         | 61.4                         | 64.3                         |
| İZM10197ÇÖK  | 10                      | 0.422                       | 60.8                                                  | 68.5                         | 75.9                         | 79.3                         |
| İZM11197ÇÖK  | 11                      | 0.511                       | 73.5                                                  | 82.9                         | 91.8                         | 96.0                         |
| İZM12197ÇÖK  | 12                      | 0.608                       | 88                                                    | 99                           | 109                          | 114                          |
| İZM13197ÇÖK  | 13                      | 0.713                       | 103                                                   | 116                          | 128                          | 134                          |
| İZM14197ÇÖK  | 14                      | 0.827                       | 119                                                   | 134                          | 149                          | 156                          |
| İZM15197ÇÖK  | 15                      | 0.950                       | 137                                                   | 154                          | 171                          | 179                          |
| İZM168197ÇÖK | 16                      | 1.080                       | 156                                                   | 175                          | 194                          | 203                          |
| İZM17197ÇÖK  | 17                      | 1.220                       | 176                                                   | 198                          | 219                          | 229                          |
| İZM18197ÇÖK  | 18                      | 1.367                       | 197                                                   | 222                          | 246                          | 257                          |
| İZM19197ÇÖK  | 19                      | 1.523                       | 219                                                   | 247                          | 274                          | 286                          |
| İZM20197ÇÖK  | 20                      | 1.688                       | 243                                                   | 274                          | 303                          | 317                          |
| İZM21197ÇÖK  | 21                      | 1.861                       | 268                                                   | 302                          | 335                          | 350                          |
| İZM22197ÇÖK  | 22                      | 2.042                       | 294                                                   | 332                          | 367                          | 384                          |
| İZM23197ÇÖK  | 23                      | 2.232                       | 321                                                   | 362                          | 401                          | 420                          |
| İZM24197ÇÖK  | 24                      | 2.431                       | 350                                                   | 395                          | 437                          | 457                          |
| İZM25197ÇÖK  | 25                      | 2.638                       | 380                                                   | 428                          | 474                          | 496                          |
| İZM26197ÇÖK  | 26                      | 2.853                       | 411                                                   | 463                          | 513                          | 536                          |
| İZM27197ÇÖK  | 27                      | 3.076                       | 443                                                   | 499                          | 553                          | 578                          |
| İZM28197ÇÖK  | 28                      | 3.308                       | 476                                                   | 537                          | 595                          | 622                          |
| İZM29197ÇÖK  | 29                      | 3.549                       | 511                                                   | 576                          | 638                          | 667                          |
| İZM30197ÇÖK  | 30                      | 3.798                       | 547                                                   | 617                          | 683                          | 714                          |
| İZM36197ÇÖK  | 36                      | 5.469                       | 788                                                   | 888                          | 983                          | 1028                         |



ŞENOL MAKİNA

**19 x 7 WSC**  
**[(1+6)+6(1+6)+12(1+6)]**



Çap Aralığı: 8-36(mm)  
Tel Sayısı: 133  
Doluluk Oranı: 0,551  
Dönme Oranı: 0,757

Diameter Range: 8-36(mm)  
Number Of Wires: 216  
Average Fill Factor: 0,551  
Average Spin Factor: 0,757

**19 x 7 WSC**  
**COMPACT**



Çap Aralığı: 8-36(mm)  
Tel Sayısı: 126  
Doluluk Oranı: 0,582  
Dönme Oranı: 0,757

Diameter Range: 8-36(mm)  
Number Of Wires: 126  
Average Fill Factor: 0,582  
Average Spin Factor: 0,757



**ÇELİK HALAT**  
çelik halat ve tel sanayii a.ş.

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.



ŞENOL MAKİNA

**24x7 PWRC**  
 $[(1)+4(1+6)+4x(1+6)/$   
 $4(1+6)+12(1+6)]$



Çap Aralığı: 10-36(mm)  
 Tel Sayısı: 168  
 Doluluk Oranı: 0,557  
 Dönme Oranı: 0,758

Diameter Range: 10-36(mm)  
 Number Of Wires: 168  
 Average Fill Factor: 0,557  
 Average Spin Factor: 0,758

**24x7 PWRC  
COMPACT**



Çap Aralığı: 10-36(mm)  
 Tel Sayısı: 168  
 Doluluk Oranı: 0,5876  
 Dönme Oranı: 0,758

Diameter Range: 10-36(mm)  
 Number Of Wires: 168  
 Average Fill Factor: 0,5876  
 Average Spin Factor: 0,758



## ÇELİK HALATLAR STEEL WIRE ROPES



► **24x7 ÇELİK ÖZLÜ ÇELİK HALAT**  
 24x7 STEEL CORE STEEL WIRE ROPES



► **24x7 ÇELİK ÖZLÜ COMPACT ÇELİK HALAT**  
 24x7 STEEL CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 24x7<br>[[1)+4(1+6)+4x(1+6)/<br>4(1+6)+12(1+6)] | MINIMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|-------------------------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)                         | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM10247ÇÖ  | 10                                              | 0,427                                                 | 57                           | 64                           | 71                           | 76                           |
| İZM11247ÇÖ  | 11                                              | 0,517                                                 | 68                           | 77                           | 85                           | 91                           |
| İZM12247ÇÖ  | 12                                              | 0,615                                                 | 81                           | 92                           | 102                          | 109                          |
| İZM13247ÇÖ  | 13                                              | 0,722                                                 | 96                           | 108                          | 119                          | 128                          |
| İZM14247ÇÖ  | 14                                              | 0,838                                                 | 111                          | 125                          | 138                          | 148                          |
| İZM15247ÇÖ  | 15                                              | 0,962                                                 | 127                          | 143                          | 159                          | 170                          |
| İZM16247ÇÖ  | 16                                              | 1,094                                                 | 145                          | 163                          | 181                          | 194                          |
| İZM17247ÇÖ  | 17                                              | 1,235                                                 | 163                          | 184                          | 204                          | 218                          |
| İZM18247ÇÖ  | 18                                              | 1,385                                                 | 183                          | 206                          | 229                          | 245                          |
| İZM19247ÇÖ  | 19                                              | 1,543                                                 | 204                          | 230                          | 255                          | 273                          |
| İZM20247ÇÖ  | 20                                              | 1,710                                                 | 226                          | 255                          | 282                          | 302                          |
| İZM21247ÇÖ  | 21                                              | 1,885                                                 | 249                          | 281                          | 311                          | 333                          |
| İZM22247ÇÖ  | 22                                              | 2,069                                                 | 274                          | 308                          | 342                          | 366                          |
| İZM23247ÇÖ  | 23                                              | 2,261                                                 | 299                          | 337                          | 373                          | 400                          |
| İZM24247ÇÖ  | 24                                              | 2,462                                                 | 326                          | 367                          | 406                          | 435                          |
| İZM25247ÇÖ  | 25                                              | 2,671                                                 | 353                          | 398                          | 441                          | 473                          |
| İZM26247ÇÖ  | 26                                              | 2,889                                                 | 382                          | 431                          | 477                          | 511                          |
| İZM27247ÇÖ  | 27                                              | 3,116                                                 | 412                          | 465                          | 514                          | 551                          |
| İZM28247ÇÖ  | 28                                              | 3,351                                                 | 443                          | 500                          | 553                          | 593                          |
| İZM29247ÇÖ  | 29                                              | 3,594                                                 | 475                          | 536                          | 593                          | 636                          |
| İZM30247ÇÖ  | 30                                              | 3,847                                                 | 509                          | 573                          | 635                          | 680                          |
| İZM32247ÇÖ  | 32                                              | 4,377                                                 | 579                          | 652                          | 723                          | 774                          |
| İZM34247ÇÖ  | 34                                              | 4,941                                                 | 653                          | 737                          | 816                          |                              |
| İZM36247ÇÖ  | 36                                              | 5,539                                                 | 732                          | 826                          | 914                          |                              |

| KOD<br>CODE | 24x7 Compact<br>[[1)+4(1+6)+4x(1+6)/<br>4(1+6)+12(1+6)] | MINIMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|---------------------------------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)                                 | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM10247ÇÖK | 10                                                      | 0,451                                                 | 67                           | 75                           | 83                           | 85                           |
| İZM11247ÇÖK | 11                                                      | 0,546                                                 | 81                           | 91                           | 101                          | 102                          |
| İZM12247ÇÖK | 12                                                      | 0,649                                                 | 96                           | 108                          | 120                          | 122                          |
| İZM13247ÇÖK | 13                                                      | 0,762                                                 | 113                          | 127                          | 141                          | 143                          |
| İZM14247ÇÖK | 14                                                      | 0,884                                                 | 131                          | 147                          | 163                          | 166                          |
| İZM15247ÇÖK | 15                                                      | 1,015                                                 | 150                          | 169                          | 187                          | 191                          |
| İZM16247ÇÖK | 16                                                      | 1,154                                                 | 171                          | 192                          | 213                          | 217                          |
| İZM17247ÇÖK | 17                                                      | 1,303                                                 | 193                          | 217                          | 241                          | 245                          |
| İZM18247ÇÖK | 18                                                      | 1,461                                                 | 216                          | 244                          | 270                          | 274                          |
| İZM19247ÇÖK | 19                                                      | 1,628                                                 | 241                          | 271                          | 301                          | 306                          |
| İZM20247ÇÖK | 20                                                      | 1,804                                                 | 267                          | 301                          | 333                          | 339                          |
| İZM21247ÇÖK | 21                                                      | 1,988                                                 | 294                          | 332                          | 367                          | 373                          |
| İZM22247ÇÖK | 22                                                      | 2,182                                                 | 323                          | 364                          | 403                          | 410                          |
| İZM23247ÇÖK | 23                                                      | 2,385                                                 | 353                          | 398                          | 440                          | 448                          |
| İZM24247ÇÖK | 24                                                      | 2,597                                                 | 384                          | 433                          | 480                          | 488                          |
| İZM25247ÇÖK | 25                                                      | 2,818                                                 | 417                          | 470                          | 520                          | 529                          |
| İZM26247ÇÖK | 26                                                      | 3,048                                                 | 451                          | 508                          | 563                          | 572                          |
| İZM27247ÇÖK | 27                                                      | 3,287                                                 | 486                          | 548                          | 607                          | 617                          |
| İZM28247ÇÖK | 28                                                      | 3,535                                                 | 523                          | 589                          | 653                          | 664                          |
| İZM29247ÇÖK | 29                                                      | 3,792                                                 | 561                          | 632                          | 700                          | 712                          |
| İZM30247ÇÖK | 30                                                      | 4,058                                                 | 600                          | 677                          | 749                          | 762                          |
| İZM32247ÇÖK | 32                                                      | 4,617                                                 | 683                          | 770                          | 853                          | 867                          |
| İZM34247ÇÖK | 34                                                      | 5,212                                                 | 771                          | 869                          | 962                          |                              |
| İZM36247ÇÖK | 36                                                      | 5,844                                                 | 864                          | 974                          | 1079                         |                              |

Diğer çaplar ve özel gereksinimler için lütfen bizimle iletişime geçin. For other diameters and special requirements, please contact us.

# ÇELİK HALATLAR STEEL WIRE ROPES



## ► 35x7 ÇELİK ÖZLÜ ÇELİK HALAT 35x7 STEEL CORE STEEL WIRE ROPES

## ► 35x7 ÇELİK ÖZLÜ COMPACT ÇELİK HALAT 35x7 STEEL CORE COMPACT STEEL WIRE ROPES

| KOD<br>CODE | 35x7<br>[(1)+4(1+6)+4x(1+6)/<br>4(1+6)+12(1+6)] | MINİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|-------------------------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)                         | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM10357ÇÖ  | 10                                              | 0,427                                                 | 57                           | 64                           | 71                           | 76                           |
| İZM11357ÇÖ  | 11                                              | 0,517                                                 | 68                           | 77                           | 85                           | 91                           |
| İZM12357ÇÖ  | 12                                              | 0,615                                                 | 81                           | 92                           | 102                          | 109                          |
| İZM13357ÇÖ  | 13                                              | 0,722                                                 | 96                           | 108                          | 119                          | 128                          |
| İZM14357ÇÖ  | 14                                              | 0,838                                                 | 111                          | 125                          | 138                          | 148                          |
| İZM15357ÇÖ  | 15                                              | 0,962                                                 | 127                          | 143                          | 159                          | 170                          |
| İZM16357ÇÖ  | 16                                              | 1,094                                                 | 145                          | 163                          | 181                          | 194                          |
| İZM17357ÇÖ  | 17                                              | 1,235                                                 | 163                          | 184                          | 204                          | 218                          |
| İZM18357ÇÖ  | 18                                              | 1,385                                                 | 183                          | 206                          | 229                          | 245                          |
| İZM19357ÇÖ  | 19                                              | 1,543                                                 | 204                          | 230                          | 255                          | 273                          |
| İZM20357ÇÖ  | 20                                              | 1,710                                                 | 226                          | 255                          | 282                          | 302                          |
| İZM21357ÇÖ  | 21                                              | 1,885                                                 | 249                          | 281                          | 311                          | 333                          |
| İZM22357ÇÖ  | 22                                              | 2,069                                                 | 274                          | 308                          | 342                          | 366                          |
| İZM23357ÇÖ  | 23                                              | 2,261                                                 | 299                          | 337                          | 373                          | 400                          |
| İZM24357ÇÖ  | 24                                              | 2,462                                                 | 326                          | 367                          | 406                          | 435                          |
| İZM25357ÇÖ  | 25                                              | 2,671                                                 | 353                          | 398                          | 441                          | 473                          |
| İZM26357ÇÖ  | 26                                              | 2,889                                                 | 382                          | 431                          | 477                          | 511                          |
| İZM27357ÇÖ  | 27                                              | 3,116                                                 | 412                          | 465                          | 514                          | 551                          |
| İZM28357ÇÖ  | 28                                              | 3,351                                                 | 443                          | 500                          | 553                          | 593                          |
| İZM29357ÇÖ  | 29                                              | 3,594                                                 | 475                          | 536                          | 593                          | 636                          |
| İZM30357ÇÖ  | 30                                              | 3,847                                                 | 509                          | 573                          | 635                          | 680                          |
| İZM32357ÇÖ  | 32                                              | 4,377                                                 | 579                          | 652                          | 723                          | 774                          |
| İZM34357ÇÖ  | 34                                              | 4,941                                                 | 653                          | 737                          | 816                          |                              |
| İZM36357ÇÖ  | 36                                              | 5,539                                                 | 732                          | 826                          | 914                          |                              |

| KOD<br>CODE | 35x7 Compact<br>[(1)+4(1+6)+4x(1+6)/<br>4(1+6)+12(1+6)] | MINİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) | 1570<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|---------------------------------------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)                                 | AĞIRLIK<br>Weight<br>(kg/m)                           |                              |                              |                              |                              |
| İZM10357ÇÖK | 10                                                      | 0,451                                                 | 67                           | 75                           | 83                           | 85                           |
| İZM11357ÇÖK | 11                                                      | 0,546                                                 | 81                           | 91                           | 101                          | 102                          |
| İZM12357ÇÖK | 12                                                      | 0,649                                                 | 96                           | 108                          | 120                          | 122                          |
| İZM13357ÇÖK | 13                                                      | 0,762                                                 | 113                          | 127                          | 141                          | 143                          |
| İZM14357ÇÖK | 14                                                      | 0,884                                                 | 131                          | 147                          | 163                          | 166                          |
| İZM15357ÇÖK | 15                                                      | 1,015                                                 | 150                          | 169                          | 187                          | 191                          |
| İZM16357ÇÖK | 16                                                      | 1,154                                                 | 171                          | 192                          | 213                          | 217                          |
| İZM17357ÇÖK | 17                                                      | 1,303                                                 | 193                          | 217                          | 241                          | 245                          |
| İZM18357ÇÖK | 18                                                      | 1,461                                                 | 216                          | 244                          | 270                          | 274                          |
| İZM19357ÇÖK | 19                                                      | 1,628                                                 | 241                          | 271                          | 301                          | 306                          |
| İZM20357ÇÖK | 20                                                      | 1,804                                                 | 267                          | 301                          | 333                          | 339                          |
| İZM21357ÇÖK | 21                                                      | 1,988                                                 | 294                          | 332                          | 367                          | 373                          |
| İZM22357ÇÖK | 22                                                      | 2,182                                                 | 323                          | 364                          | 403                          | 410                          |
| İZM23357ÇÖK | 23                                                      | 2,385                                                 | 353                          | 398                          | 440                          | 448                          |
| İZM24357ÇÖK | 24                                                      | 2,597                                                 | 384                          | 433                          | 480                          | 488                          |
| İZM25357ÇÖK | 25                                                      | 2,818                                                 | 417                          | 470                          | 520                          | 529                          |
| İZM26357ÇÖK | 26                                                      | 3,048                                                 | 451                          | 508                          | 563                          | 572                          |
| İZM27357ÇÖK | 27                                                      | 3,287                                                 | 486                          | 548                          | 607                          | 617                          |
| İZM28357ÇÖK | 28                                                      | 3,535                                                 | 523                          | 589                          | 653                          | 664                          |
| İZM29357ÇÖK | 29                                                      | 3,792                                                 | 561                          | 632                          | 700                          | 712                          |
| İZM30357ÇÖK | 30                                                      | 4,058                                                 | 600                          | 677                          | 749                          | 762                          |
| İZM32357ÇÖK | 32                                                      | 4,617                                                 | 683                          | 770                          | 853                          | 867                          |
| İZM34357ÇÖK | 34                                                      | 5,212                                                 | 771                          | 869                          | 962                          |                              |
| İZM36357ÇÖK | 36                                                      | 5,844                                                 | 864                          | 974                          | 1079                         |                              |



ŞENOL MAKİNA

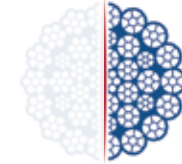
**35x7 PWRC**  
[(1)+4(1+6)+4x(1+6)/  
4(1+6)+12(1+6)]



Çap Aralığı: 10-36(mm)  
Tel Sayısı: 245  
Doluluk Oranı: 0,577  
Dönme Oranı: 0,758

Diameter Range: 10-36(mm)  
Number Of Wires: 245  
Average Fill Factor: 0,577  
Average Spin Factor: 0,758

**35x7 PWRC  
COMPACT**



Çap Aralığı: 10-36(mm)  
Tel Sayısı: 245  
Doluluk Oranı: 0,646  
Dönme Oranı: 0,758

Diameter Range: 10-36(mm)  
Number Of Wires: 245  
Average Fill Factor: 0,646  
Average Spin Factor: 0,758

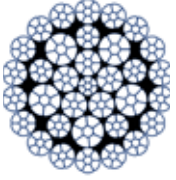


ÇELİK HALAT  
çelik halat ve tel sanayii a.ş.



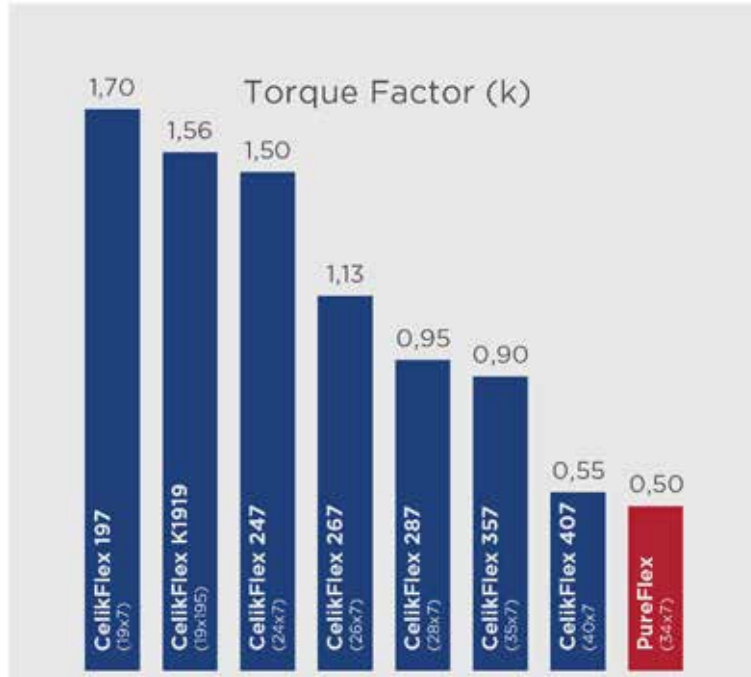
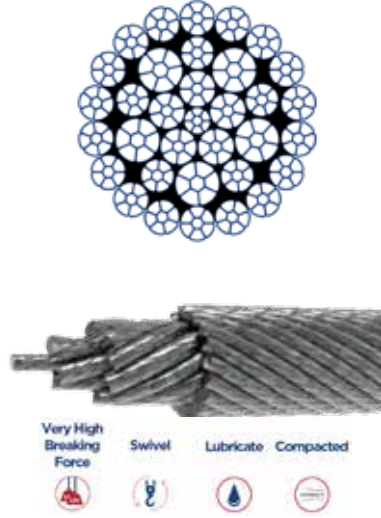
ŞENOL MAKİNA

### PUREFLEX



Çap Aralığı: 10-40(mm)  
Tel Sayısı: 203  
Doluluk Oranı: 0,65  
Dönme Oranı: 0,50

Diameter Range: 10-40(mm)  
Number Of Wires: 203  
Average Fill Factor: 0,65  
Average Spin Factor: 0,50



### AVANTAJLAR

- Yüksek kopma tonajı
- Yüksek dönme dayanımı
- Mükemmel uyum
- High Breaking Load
- High Rotation Resistance
- Excellent Compaction



ŞENOL MAKİNA  
çelik halat ve tel sanayi a.ş.

## ÇELİK HALATLAR STEEL WIRE ROPES

### PUREFLEX DÖNME DAYANIMLI ÇELİK HALAT PUREFLEX NON ROTATING STEEL WIRE ROPES

| KOD<br>CODE | PUREFLEX<br>[(1+6)+5x(1+6)+<br>5x(1+6)+18(1+6)] |                             | MINIMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |                              |
|-------------|-------------------------------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|             | ÇAP<br>Diameter<br>(mm)                         | AĞIRLIK<br>Weight<br>(kg/m) | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
| İZM10PURE   | 10                                              | 0,463                       | 70                                                    | 79                           | 87                           | 89                           |
| İZM11PURE   | 11                                              | 0,560                       | 84                                                    | 95                           | 106                          | 108                          |
| İZM12PURE   | 12                                              | 0,667                       | 101                                                   | 114                          | 126                          | 128                          |
| İZM13PURE   | 13                                              | 0,782                       | 118                                                   | 133                          | 148                          | 151                          |
| İZM14PURE   | 14                                              | 0,907                       | 137                                                   | 155                          | 171                          | 175                          |
| İZM15PURE   | 15                                              | 1,042                       | 158                                                   | 178                          | 197                          | 201                          |
| İZM16PURE   | 16                                              | 1,185                       | 179                                                   | 202                          | 224                          | 228                          |
| İZM17PURE   | 17                                              | 1,338                       | 202                                                   | 228                          | 253                          | 258                          |
| İZM18PURE   | 18                                              | 1,500                       | 227                                                   | 256                          | 283                          | 289                          |
| İZM19PURE   | 19                                              | 1,671                       | 253                                                   | 285                          | 316                          | 322                          |
| İZM20PURE   | 20                                              | 1,852                       | 280                                                   | 316                          | 350                          | 357                          |
| İZM21PURE   | 21                                              | 2,042                       | 309                                                   | 348                          | 386                          | 393                          |
| İZM22PURE   | 22                                              | 2,241                       | 339                                                   | 382                          | 423                          | 432                          |
| İZM23PURE   | 23                                              | 2,249                       | 370                                                   | 418                          | 462                          | 472                          |
| İZM24PURE   | 24                                              | 2,667                       | 403                                                   | 455                          | 504                          | 514                          |
| İZM25PURE   | 25                                              | 2,894                       | 438                                                   | 493                          | 546                          | 558                          |
| İZM26PURE   | 26                                              | 3,130                       | 473                                                   | 534                          | 591                          | 603                          |
| İZM27PURE   | 27                                              | 3,375                       | 540                                                   | 575                          | 637                          | 650                          |
| İZM28PURE   | 28                                              | 3,630                       | 549                                                   | 619                          | 685                          | 699                          |
| İZM29PURE   | 29                                              | 3,894                       | 589                                                   | 664                          | 735                          | 750                          |
| İZM30PURE   | 30                                              | 4,167                       | 630                                                   | 710                          | 787                          | 803                          |
| İZM32PURE   | 32                                              | 4,741                       | 717                                                   | 808                          | 895                          | 913                          |
| İZM34PURE   | 34                                              | 5,352                       | 809                                                   | 913                          | 1011                         | 1031                         |
| İZM36PURE   | 36                                              | 6,000                       | 907                                                   | 1023                         | 1133                         | 1156                         |
| İZM38PURE   | 38                                              | 6,686                       | 1011                                                  | 1140                         | 1262                         | 1288                         |
| İZM40PURE   | 40                                              | 7,408                       | 1120                                                  | 1263                         | 1399                         | 1427                         |



**PYTHON**<sup>®</sup>  
HIGH PERFORMANCE WIRE ROPE

“Yüksek Teknoloji Çelik Halatlar”

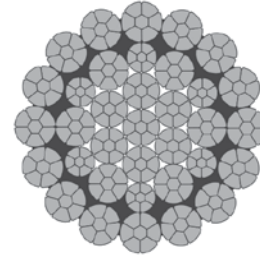
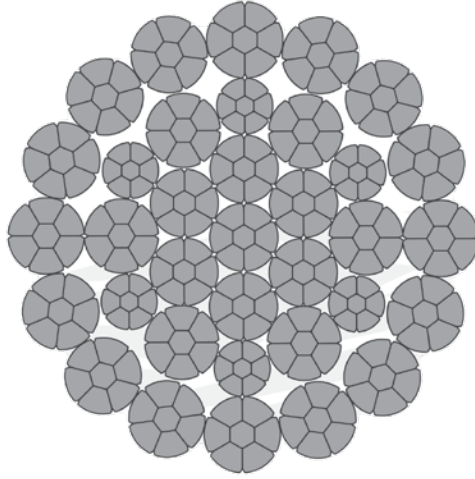
**PYTHON**  
HIGH PERFORMANCE WIRE ROPES



ŞENOL MAKİNA

## ÇELİK HALATLAR STEEL WIRE ROPES

► **PYTHON COMPAC 35 / PYTHON 35x7 GALVANİZLİ COMPACT ÇELİK HALAT**  
PYTHON COMPAC 35 / PYTHON 35x7 GALVANISED COMPACT STEEL WIRE ROPES



Talep edildiği takdirde PlastGuard,  
plastik dolgu olarak üretilebilmektedir.  
Aynı kopma değerlerini sağlar.

### Kullanım Alanları

- \* Mobil Vinçler; Kaldırma ve Taşıma Halatı
- \* Fore Kazık Makinaları
- \* Kule Vinçler; Kaldırma ve Taşıma Halatı
- \* Sanayi Vinçleri; Kaldırma ve Taşıma Halatı
- \* Petrol Sanayi; Kaldırma ve Taşıma Halatı
- \* Liman İşletmeleri; Liman Vinçleri
- \* Denizcilik; Gemi Vinçleri

- \* Yüksek Çalışma ve Kopma Mukavemeti
- \* İleri Teknoloji Galvanizleme
- \* Yüksek Korozyon Dayanımı
- \* Dura Lube C Yağlama İle Minimum Yağlama Gereksinimi

| KOD<br>CODE | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/100m) | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|-------------------------|--------------------------------|------------------------------|------------------------------|
| AVR8357     | 8                       | 30,7                           | 56                           | 62                           |
| AVR9357     | 9                       | 38,9                           | 71                           | 78                           |
| AVR10357    | 10                      | 48,0                           | 87                           | 96                           |
| AVR11357    | 11                      | 58,1                           | 106                          | 116                          |
| AVR12357    | 12                      | 69,1                           | 126                          | 138                          |
| AVR13357    | 13                      | 81,1                           | 147                          | 162                          |
| AVR14357    | 14                      | 94,1                           | 171                          | 188                          |
| AVR15357    | 15                      | 108,0                          | 196                          | 216                          |
| AVR16357    | 16                      | 126,0                          | 223                          | 246                          |
| AVR17357    | 17                      | 141,0                          | 252                          | 278                          |
| AVR18357    | 18                      | 156,0                          | 283                          | 311                          |
| AVR19357    | 19                      | 174,0                          | 315                          | 347                          |
| AVR20357    | 20                      | 197,0                          | 338                          | 373                          |
| AVR21357    | 21                      | 214,0                          | 385                          | 424                          |
| AVR22357    | 22                      | 237,0                          | 436                          | 480                          |
| AVR23357    | 23                      | 262,0                          | 481                          | 530                          |
| AVR24357    | 24                      | 278,0                          | 512                          | 564                          |
| AVR25357    | 25                      | 306,0                          | 563                          | 620                          |
| AVR26357    | 26                      | 329,0                          | 605                          | 667                          |
| AVR27357    | 27                      | 353,0                          | 649                          | 716                          |
| AVR28357    | 28                      | 384,0                          | 705                          | 777                          |

## ÇELİK HALATLAR STEEL WIRE ROPES

► **PYTHON COMPAC 35 / PYTHON 35x7 GALVANİZLİ COMPACT ÇELİK HALAT**  
PYTHON COMPAC 35 / PYTHON 35x7 GALVANISED COMPACT STEEL WIRE ROPES

| KOD<br>CODE | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/100m) | 1960<br>[N/mm <sup>2</sup> ] | 2160<br>[N/mm <sup>2</sup> ] |
|-------------|-------------------------|--------------------------------|------------------------------|------------------------------|
| AVR29357    | 29                      | 405,0                          | 745                          | 821                          |
| AVR30357    | 30                      | 438,0                          | 804                          | 886                          |
| AVR31357    | 31                      | 469,0                          | 862                          | 950                          |
| AVR32357    | 32                      | 493,0                          | 907                          | 999                          |
| AVR33357    | 33                      | 527,0                          | 956                          | 1.053                        |
| AVR34357    | 34                      | 570,0                          | 1.023                        | 1.127                        |
| AVR35357    | 35                      | 606,0                          | 1.080                        | 1.190                        |
| AVR36357    | 36                      | 642,0                          | 1.144                        | 1.260                        |
| AVR38357    | 38                      | 718,0                          | 1.279                        | 1.409                        |
| AVR40357    | 40                      | 793,0                          | 1.412                        | 1.557                        |
| AVR42357    | 42                      | 870,0                          | 1.549                        | 1.708                        |
| AVR44357    | 44                      | 948,0                          | 1.690                        | 1.862                        |
| AVR46357    | 46                      | 1.040,0                        | 1.858                        | 2.048                        |
| AVR48357    | 48                      | 1.140,0                        | 2.024                        | 2.231                        |
| AVR50357    | 50                      | 1.230,0                        | 2.184                        | 2.382                        |
| AVR52357    | 52                      | 1.320,0                        | 2.357                        | 2.545                        |
| AVR54357    | 54                      | 1.420,0                        | 2.537                        | 2.740                        |
| AVR56357    | 56                      | 1.550,0                        | 2.758                        | 2.979                        |
| AVR58357    | 58                      | 1.660,0                        | 2.960                        | 3.196                        |
| AVR60357    | 60                      | 1.770,0                        | 3.158                        | 3.446                        |
| AVR62357    | 62                      | 1.880,0                        | 3.356                        | 3.662                        |



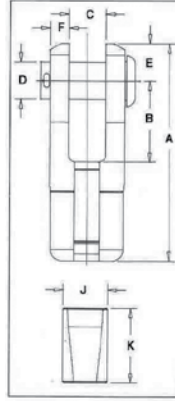


ŞENOL MAKİNA



## ÖZEL SONLANDIRMA EKİPMANLARI SPECIAL ENDING SOCKETS

### ► ÖZEL BASKILI SOKET SPECIAL SWAGED BUTTON SOCKETS



| KOD<br>CODE | HALAT<br>ÇAPI<br>Wire Dia.<br>(mm) | AĞIRLIK<br>Weight<br>(kg) | A   | B   | C    | D    | E    | F    | J    | K    |
|-------------|------------------------------------|---------------------------|-----|-----|------|------|------|------|------|------|
| LBHUC1316   | 13-16                              | 2,76                      | 183 | 67  | 32,5 | 30,2 | 31   | 15,7 | 38,1 | 63,5 |
| LBHUC1719   | 17-19                              | 4,67                      | 217 | 79  | 38,8 | 35,1 | 36,6 | 19   | 44,5 | 76,2 |
| LBHUC2023   | 20-23                              | 7,75                      | 254 | 92  | 45,2 | 41,1 | 43   | 22,4 | 52,3 | 89   |
| LBHUC2426   | 24-26                              | 13,24                     | 298 | 111 | 51,6 | 51   | 51   | 26,2 | 61,9 | 102  |
| LBHUC2732   | 27-32                              | 20,86                     | 351 | 127 | 64,3 | 57,2 | 63,5 | 28,2 | 74,7 | 127  |
| LBHUC3338   | 33-38                              | 35,38                     | 424 | 152 | 77   | 69,9 | 79,2 | 32,3 | 92   | 152  |

### ► ÖZEL İLAÇ DÖKÜMLÜ SOKET SPECIAL BUTTON SOCKETS



| KOD<br>CODE | HALAT<br>ÇAPI<br>Wire Dia.<br>(mm) | SOKET<br>BOYU<br>Socket<br>Length<br>(mm) | SOKET<br>ÇAPI<br>Socket<br>Dia.<br>(mm) | KULLANILAN<br>WIRELOCK MİKTARI<br>Wirelock<br>Require<br>(cc) |
|-------------|------------------------------------|-------------------------------------------|-----------------------------------------|---------------------------------------------------------------|
| LBSTP1315   | 13-15                              | 88                                        | 33                                      | 100                                                           |
| LBSTP1618   | 16-18                              | 101                                       | 42                                      | 100                                                           |
| LBSTP1922   | 19-22                              | 126                                       | 46                                      | 100                                                           |
| LBSTP2326   | 23-26                              | 177                                       | 53                                      | 250                                                           |
| LBSTP2729   | 27-29                              | 223                                       | 62                                      | 250                                                           |
| LBSTP3032   | 30-32                              | 246                                       | 65                                      | 250                                                           |





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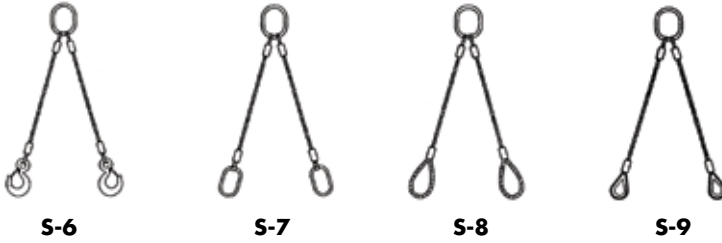
TÜV AUSTRIA CE

## ÇELİK SAPANLAR WIRE ROPE SLINGS

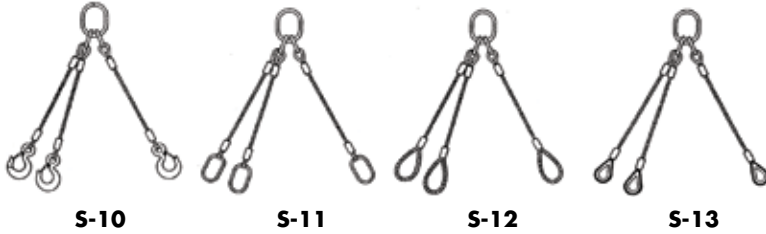
### ► TEK KOLLU ÇELİK SAPAN SINGLE LEG SLINGS



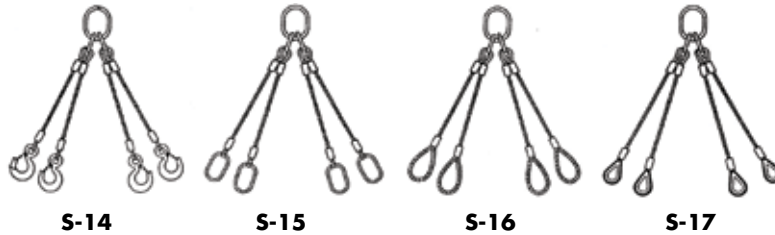
### ► İKİ KOLLU ÇELİK SAPAN TWO LEG SLINGS



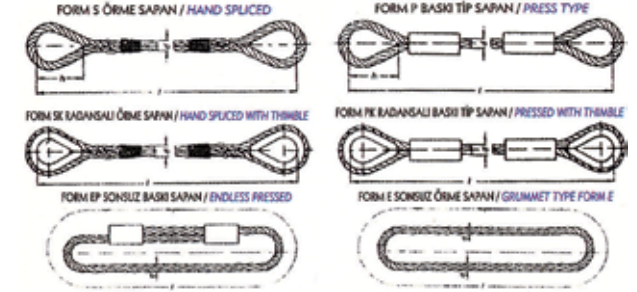
### ► ÜÇ KOLLU ÇELİK SAPAN THREE LEG SLINGS



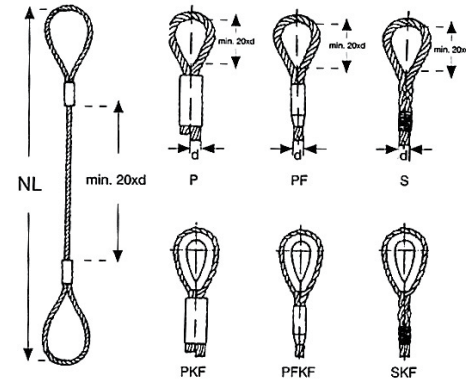
### ► DÖRT KOLLU ÇELİK SAPAN FOUR LEG SLINGS



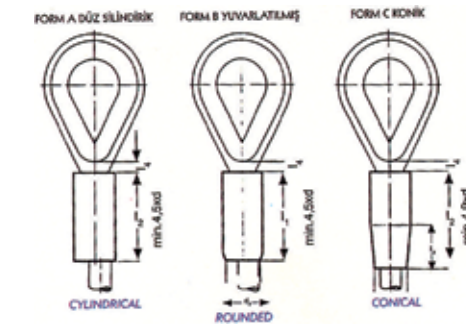
### ► DIN 3088 STANDARDINA UYGUN SAPAN ÇEŞİTLERİ WIREROPE SLING Acc. To DIN 3088



### ► GÖZ TİPLERİ VE BOYUTLARI EYE TYPES AND DIMENSIONS



### ► EN 13411-3 STANDARDINA UYGUN BASKI TİPLERİ PRESSING TYPES Acc. To EN 13411-3



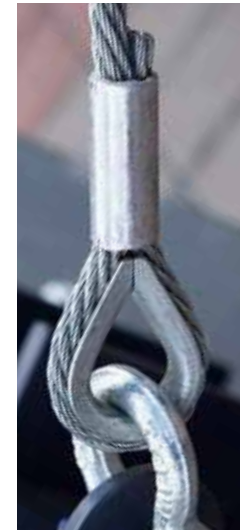


ŞENOL MAKİNA

## ÇELİK SAPANLAR WIRE ROPE SLINGS

► **LİF ÖZLÜ ÇELİK HALAT BASKI SAPANLAR İÇİN GÜVENLİ ÇALIŞMA YÜK DEĞERLERİ HALAT GRUPLARI: 6x36 ve 8x36 SAPAN STANDARDI: EN 13414**  
WORKING LOAD LIMITS FOR SLINGS USING "FIBER CORED" ROPE OF CLASSES 6X36 AND 8X36 HAVING FRERULE-SECURED EYE TERMINATIONS SLING STANDARD: EN 13414

|                             |  |  |  |  |  |  |  |
|-----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| TİP<br>TYPE                 | TEK BACAK<br>1 LEG                                                                | BOĞDURMA<br>CHOKER<br>HILCH                                                       | SEPET SAPAN<br>BASKET SLING                                                       | 2 BACAK<br>2 LEGS                                                                 | BOĞDURMA 2 BACAK<br>CHOKER HILCH                                                    | 3 VEYA 4 BACAKLI<br>3 OR 4 LEGS SLINGS                                              | SONSUZ<br>ENDLESS                                                                   |
| AÇI ANGLE                   | -                                                                                 | -                                                                                 | 0°-45° 45°-60°                                                                    | 0°-45° 45°-60°                                                                    | 0°-45° 45°-60°                                                                      | 0°-45° 45°-60°                                                                      | - -                                                                                 |
| BACAK FAKTÖRÜ<br>LEG FACTOR | 1,0                                                                               | 0,8                                                                               | 1,4 1,0                                                                           | 1,4 1,0                                                                           | 1,2 0,8                                                                             | 2,1 1,5                                                                             | 2X2 1,6                                                                             |
| HALAT ÇAPI<br>ROPE DIA      | Kg                                                                                | Kg                                                                                | Kg Kg                                                                             | Kg Kg                                                                             | Kg Kg                                                                               | Kg Kg                                                                               | Kg Kg                                                                               |
| 8 mm                        | 700                                                                               | 560                                                                               | 980 700                                                                           | 980 700                                                                           | 840 560                                                                             | 1500 1050                                                                           | 2800 1100                                                                           |
| 10 mm                       | 1050                                                                              | 840                                                                               | 1470 1050                                                                         | 1470 1050                                                                         | 1260 840                                                                            | 2250 1600                                                                           | 4200 1700                                                                           |
| 12 mm                       | 1550                                                                              | 1240                                                                              | 2170 1550                                                                         | 2170 1550                                                                         | 1860 1240                                                                           | 3300 2300                                                                           | 6200 2500                                                                           |
| 13 mm                       | 1800                                                                              | 1440                                                                              | 2520 1800                                                                         | 2520 1800                                                                         | 2160 1440                                                                           | 3850 2700                                                                           | 7200 2900                                                                           |
| 14 mm                       | 2120                                                                              | 1700                                                                              | 2970 2120                                                                         | 2970 2120                                                                         | 2550 1700                                                                           | 4350 3150                                                                           | 8480 3300                                                                           |
| 16 mm                       | 2700                                                                              | 2160                                                                              | 3780 2700                                                                         | 3780 2700                                                                         | 3240 2160                                                                           | 5650 4200                                                                           | 10800 4350                                                                          |
| 18 mm                       | 3400                                                                              | 2720                                                                              | 4760 3400                                                                         | 4760 3400                                                                         | 4100 2720                                                                           | 7200 5200                                                                           | 13600 5650                                                                          |
| 20 mm                       | 4350                                                                              | 3480                                                                              | 6100 4350                                                                         | 6100 4350                                                                         | 5200 3480                                                                           | 9000 6500                                                                           | 17400 6900                                                                          |
| 22 mm                       | 5200                                                                              | 4160                                                                              | 7280 5200                                                                         | 7280 5200                                                                         | 6240 4160                                                                           | 11000 7800                                                                          | 20800 8400                                                                          |
| 24 mm                       | 6300                                                                              | 5040                                                                              | 8820 6300                                                                         | 8820 6300                                                                         | 7560 5040                                                                           | 13500 9400                                                                          | 25200 10000                                                                         |
| 26 mm                       | 7200                                                                              | 5760                                                                              | 10080 7200                                                                        | 10080 7200                                                                        | 8640 5760                                                                           | 15000 11000                                                                         | 28800 11800                                                                         |
| 28 mm                       | 8400                                                                              | 6720                                                                              | 11760 8400                                                                        | 11760 8400                                                                        | 10080 6720                                                                          | 18000 12500                                                                         | 33600 13500                                                                         |
| 32 mm                       | 11000                                                                             | 8800                                                                              | 15400 11000                                                                       | 15400 11000                                                                       | 13200 8800                                                                          | 23500 16500                                                                         | 44000 18000                                                                         |
| 36 mm                       | 14000                                                                             | 11200                                                                             | 19600 14000                                                                       | 19600 14000                                                                       | 16800 11200                                                                         | 29000 21000                                                                         | 56000 22500                                                                         |
| 40 mm                       | 17000                                                                             | 13600                                                                             | 23800 17000                                                                       | 23800 17000                                                                       | 20400 13600                                                                         | 36000 26000                                                                         | 68000 28000                                                                         |
| 44 mm                       | 21000                                                                             | 16800                                                                             | 29400 21000                                                                       | 29400 21000                                                                       | 25200 16800                                                                         | 44000 31500                                                                         | 84000 33500                                                                         |
| 48 mm                       | 25000                                                                             | 20000                                                                             | 35000 25000                                                                       | 35000 25000                                                                       | 30000 20000                                                                         | 52000 37000                                                                         | 100000 40000                                                                        |
| 52 mm                       | 29000                                                                             | 23200                                                                             | 40600 29000                                                                       | 40600 29000                                                                       | 34800 23200                                                                         | 62000 44000                                                                         | 116000 47000                                                                        |
| 56 mm                       | 33500                                                                             | 26800                                                                             | 46900 33500                                                                       | 46900 33500                                                                       | 40200 26800                                                                         | 71000 50000                                                                         | 134000 54000                                                                        |
| 60 mm                       | 39000                                                                             | 31200                                                                             | 54600 39000                                                                       | 54600 39000                                                                       | 46800 31200                                                                         | 81000 58000                                                                         | 156000 63000                                                                        |



TÜV CE  
AUSTRIA

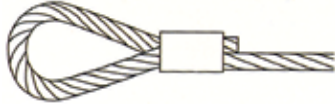


ŞENOL MAKİNA



## ÇELİK HALAT SONLANDIRMA TÜRLERİ WIRE ROPE ENDING TYPES

► **HALAT UCU SONLANDIRMA İŞLEMLERİ HALATIN KOPMA KAPASİTESİNİ AZALTIR. BELİRTİLEN YÜZDELER MİNİMUM KOPMA YÜKLERİNİN ORANIDIR.**  
Wire rope fittings operations can not provide the same performance as unwaged. Percentages refer to minimum breaking loads.



%90

Alüminyum Ferrule  
Yüzük Pres Baskı (DIN 3088)  
Aluminium Ferrule Swaged Sling



%80

El Örgüsü Çelik Radansalı Sapan (DIN 3088) (Bazı Halat Kompozisyonları İçin % 50 Kadar Güç Kaybı olabilir)  
Plaited Steel Wire Rope Sling With Thimble



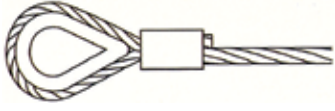
%80

El Örgüsü Çelik Sapan  
Plaited Steel Sling



%85

Klemensli (DIN 1142) Çelik Sapan  
Steel Sling With Clips



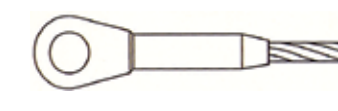
%80

Çelik Radansalı (DIN 3093)  
Alüminyum Ferrule Yüzük Pres Baskı  
Aluminium Ferrule Swaged Sling  
With Steel Thimble



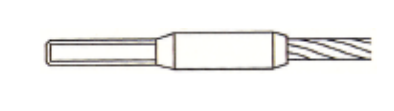
%90

Preslenmiş Çelik Çatal Baskı  
Swaged Steel Fork



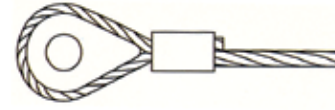
%90

Preslenmiş Çelik Mapa Baskı  
Swaged Steel Eye



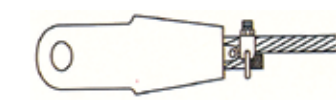
%90

Preslenmiş Çelik Saplama Baskı  
Swaged Steel Stud



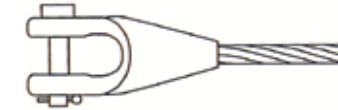
%90

Çelik Dolu Radansalı (DIN 3091)  
Alüminyum Ferrule Yüzük Pres Baskı  
Aluminium Ferrule Swaged Sling With Steel Thimble



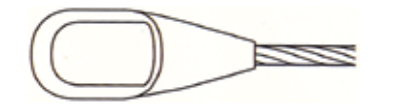
%80

Açık Ağız Soket (DIN 15315)  
Open Type Socket



%100

Açık Ağız Dökme Yapıştırıcı Soket Sistemi (DIN 8313)  
Open Type Socket With Wire Lock



%100

Kapalı Ağız Dökme Yapıştırıcı Soket Sistemi (DIN 8313)  
Closed Type Socket With Wirelock



**SNL**  
tensi

## **SNL TENSI - MEMBRAN GERGI SİSTEMLERİ**

TENSILE STRUCTURE SYSTEMS



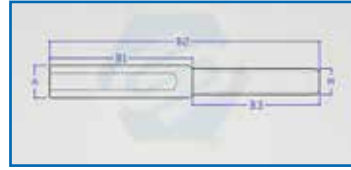
ŞENOL MAKİNA

# SNL TENSI - MEMBRAN GERGİ SİSTEMLERİ TENSILE STRUCTURE SYSTEMS

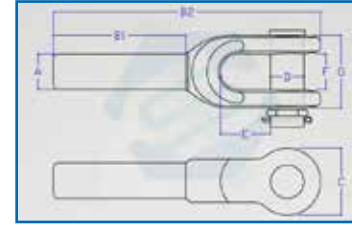
► HALAT UCU SAPLAMASI WIRE ENDING STUD

► HALAT UCU ÇATALI WIRE ENDING FORK

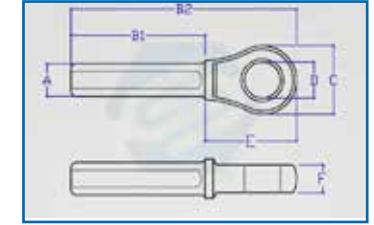
► HALAT UCU MAPASI WIRE ENDING EYE



| KOD<br>CODE | HALAT<br>ÖLÇÜSÜ<br>Ø<br>(mm) | A<br>(mm) | B1<br>(mm) | B2<br>(mm) | B3<br>(mm) | M<br>DİŞ |
|-------------|------------------------------|-----------|------------|------------|------------|----------|
| HUS6        | 6                            | 12        | 54         | 108        | 54         | M10      |
| HUS8        | 8                            | 16        | 72         | 144        | 72         | M14      |
| HUS10       | 10                           | 20        | 90         | 180        | 90         | M16      |
| HUS12       | 12                           | 24        | 108        | 216        | 108        | M20      |
| HUS14       | 14                           | 28        | 126        | 252        | 126        | M24      |
| HUS16       | 16                           | 32        | 144        | 288        | 144        | M27      |
| HUS18       | 18                           | 35        | 162        | 324        | 162        | M30      |
| HUS20       | 20                           | 40        | 180        | 360        | 180        | M36      |
| HUS22       | 22                           | 40        | 198        | 396        | 198        | M36      |
| HUS24       | 24                           | 45        | 216        | 432        | 216        | M39      |
| HUS26       | 26                           | 50        | 234        | 468        | 234        | M42      |
| HUS28       | 28                           | 55        | 252        | 504        | 252        | M48      |
| HUS30       | 30                           | 55        | 270        | 540        | 270        | M48      |
| HUS32       | 32                           | 60        | 288        | 576        | 288        | M52      |
| HUS36       | 36                           | 60        | 324        | 648        | 324        | M52      |



| KOD<br>CODE | HALAT<br>ÖLÇÜSÜ<br>Ø<br>(mm) | A<br>(mm) | B1<br>(mm) | B2<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | F<br>(mm) | G<br>(mm) |
|-------------|------------------------------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| HUC8        | 8                            | 16        | 80         | 162        | 45        | 18        | 36        | 22        | 45        |
| HUC10       | 10                           | 20        | 80         | 162        | 45        | 18        | 36        | 22        | 45        |
| HUC12       | 12                           | 24        | 100        | 200        | 51        | 22        | 44        | 26        | 54        |
| HUC14       | 14                           | 28        | 120        | 235        | 54        | 25        | 50        | 28        | 60        |
| HUC16       | 16                           | 32        | 150        | 265        | 60        | 30        | 56        | 32        | 66        |
| HUC18       | 18                           | 35        | 150        | 265        | 60        | 30        | 56        | 32        | 66        |
| HUC20       | 20                           | 40        | 170        | 300        | 70        | 33        | 60        | 38        | 74        |
| HUC22       | 22                           | 40        | 170        | 300        | 70        | 33        | 60        | 38        | 74        |
| HUC24       | 24                           | 45        | 200        | 370        | 90        | 42        | 72        | 50        | 98        |
| HUC26       | 26                           | 50        | 200        | 370        | 90        | 42        | 72        | 50        | 98        |
| HUC28       | 28                           | 55        | 250        | 460        | 100       | 50        | 95        | 55        | 118       |
| HUC30       | 30                           | 55        | 250        | 460        | 100       | 50        | 95        | 55        | 118       |
| HUC32       | 32                           | 60        | 270        | 550        | 125       | 60        | 110       | 65        | 130       |
| HUC36       | 36                           | 60        | 300        | 550        | 125       | 60        | 110       | 65        | 130       |

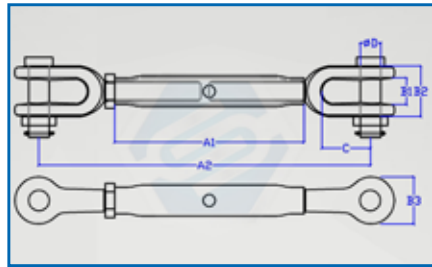


| KOD<br>CODE | HALAT<br>ÖLÇÜSÜ<br>Ø<br>(mm) | A<br>(mm) | B1<br>(mm) | B2<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | F<br>(mm) |
|-------------|------------------------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| HUM8        | 8                            | 16        | 82         | 138        | 42        | 22        | 56        | 17        |
| HUM10       | 10                           | 20        | 82         | 138        | 42        | 22        | 56        | 17        |
| HUM12       | 12                           | 24        | 98         | 163        | 52        | 26        | 65        | 22        |
| HUM14       | 14                           | 28        | 130        | 209        | 62        | 32        | 79        | 28        |
| HUM16       | 16                           | 32        | 130        | 209        | 62        | 32        | 79        | 28        |
| HUM18       | 18                           | 35        | 162        | 260        | 75        | 37        | 98        | 34        |
| HUM20       | 20                           | 40        | 162        | 260        | 75        | 37        | 98        | 34        |
| HUM22       | 22                           | 40        | 162        | 260        | 75        | 37        | 98        | 34        |
| HUM24       | 24                           | 45        | 190        | 300        | 95        | 45        | 110       | 45        |
| HUM26       | 26                           | 50        | 190        | 300        | 95        | 45        | 110       | 45        |
| HUM28       | 28                           | 55        | 250        | 370        | 122       | 60        | 155       | 50        |
| HUM30       | 30                           | 55        | 250        | 370        | 122       | 60        | 155       | 50        |
| HUM32       | 32                           | 60        | 270        | 410        | 140       | 65        | 170       | 60        |
| HUM36       | 36                           | 60        | 300        | 440        | 140       | 65        | 170       | 60        |

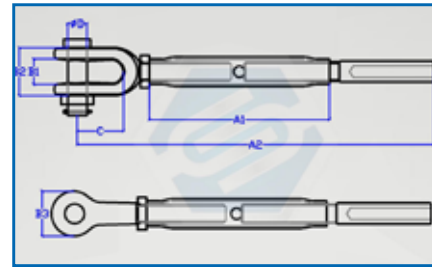


# SNL TENSI - MEMBRAN GERĞİ SİSTEMLERİ TENSILE STRUCTURE SYSTEMS

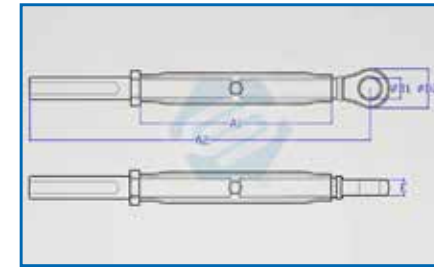
## ► BORU TİP GERDİRME TURNBUCKLE FORK & FORK



## ► SAPLAMA ÇATAL GERDİRME TURNBUCKLE FORK & STUD



## ► SAPLAMA MAPA GERDİRME TURNBUCKLE STUD & EYE



| KOD<br>CODE | WLL<br>(Ton) | A<br>(mm) | A2<br>KAPALI<br>CLOSED<br>(mm) | A2<br>AÇIK<br>OPEN<br>(mm) | B1<br>(mm) | B2<br>(mm) | B3<br>(mm) | C<br>(mm) | ØD<br>(mm) |
|-------------|--------------|-----------|--------------------------------|----------------------------|------------|------------|------------|-----------|------------|
| C18B        | 3            | 163       | 305                            | 385                        | 22         | 45         | 45         | 45        | 18         |
| C22B        | 5            | 205       | 370                            | 480                        | 26         | 54         | 51         | 56        | 22         |
| C27B        | 8            | 255       | 450                            | 600                        | 28         | 60         | 54         | 62        | 25         |
| C33B        | 10           | 300       | 525                            | 685                        | 32         | 64         | 62         | 70        | 30         |
| C39B        | 12,5         | 350       | 580                            | 760                        | 40         | 74         | 70         | 80        | 33         |
| C42B        | 15           | 440       | 750                            | 1010                       | 50         | 99         | 89         | 95        | 42         |
| C50B        | 25           | 570       | 930                            | 1330                       | 55         | 119        | 106        | 120       | 50         |
| C60B        | 35           | 620       | 1050                           | 1450                       | 67         | 125        | 128        | 145       | 60         |

| KOD<br>CODE | A<br>(mm) | A2<br>(mm) | B1<br>(mm) | B2<br>(mm) | B3<br>(mm) | C<br>(mm) | ØD<br>(mm) |
|-------------|-----------|------------|------------|------------|------------|-----------|------------|
| C18S        | 163       | 320        | 22         | 54         | 45         | 45        | 18         |
| C22S        | 205       | 400        | 26         | 54         | 51         | 56        | 22         |
| C27S        | 255       | 485        | 28         | 60         | 54         | 62        | 25         |
| C33S        | 300       | 515        | 32         | 64         | 62         | 70        | 30         |
| C39S        | 350       | 720        | 40         | 74         | 75         | 80        | 33         |
| C42S        | 440       | 800        | 50         | 99         | 89         | 95        | 42         |
| C50S        | 570       | 1115       | 55         | 119        | 106        | 120       | 50         |
| C60S        | 620       | 1200       | 67         | 125        | 128        | 145       | 60         |

| KOD<br>CODE | A1<br>(mm) | A2<br>(mm) | B1<br>(mm) | B2<br>(mm) | E<br>(mm) |
|-------------|------------|------------|------------|------------|-----------|
| C18G        | 163        | 305        | 22         | 42         | 17        |
| C22G        | 195        | 325        | 26         | 52         | 22        |
| C27G        | 255        | 450        | 32         | 62         | 28        |
| C33G        | 300        | 500        | 37         | 75         | 34        |
| C39G        | 350        | 555        | 37         | 75         | 34        |
| C42G        | 440        | 750        | 45         | 100        | 45        |
| C50G        | 565        | 1000       | 60         | 122        | 50        |
| C60G        | 615        | 1115       | 65         | 140        | 60        |



ŞENOL MAKİNA



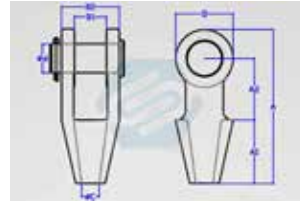


ŞENOL MAKİNA



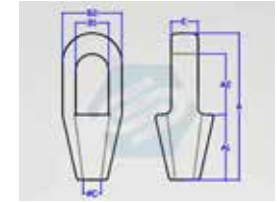
## SNL TENSİ - MEMBRAN GERGİ SİSTEMLERİ TENSILE STRUCTURE SYSTEMS

► **AÇIK TİP SOKET** WIRE SPELTER SOCKET (OPEN TYPE)



| KOD<br>CODE | HALAT<br>ÇAPI<br>(mm) | A<br>(mm) | A1<br>(mm) | A2<br>(mm) | B1<br>(mm) | B2<br>(mm) | ØC<br>(mm) | ØD<br>(mm) | D<br>(mm) |
|-------------|-----------------------|-----------|------------|------------|------------|------------|------------|------------|-----------|
| SOKETA22    | 20-22                 | 235       | 102        | 133        | 44,5       | 90         | 25         | 41,4       | 80        |
| SOKETA24    | 24-26                 | 288       | 128        | 111        | 53         | 101        | 30         | 50         | 104       |
| SOKETA28    | 28-30                 | 306       | 130        | 123        | 57         | 109        | 34         | 55         | 114       |
| SOKETA32    | 32-36                 | 338       | 139        | 127        | 63         | 119        | 38         | 63         | 126       |
| SOKETA38    | 37-38                 | 390       | 158        | 162        | 78         | 139        | 43         | 63         | 144       |
| SOKETA40    | 40-42                 | 418       | 165        | 165        | 76         | 142        | 44         | 76         | 152       |
| SOKETA44    | 44-48                 | 468       | 198        | 185        | 95         | 175        | 53         | 80         | 176       |
| SOKETA50    | 50-54                 | 552       | 220        | 240        | 110        | 213        | 61         | 88         | 192       |
| SOKETA55    | 55-60                 | 598       | 228        | 250        | 113        | 219        | 63         | 108        | 210       |
| SOKETA64    | 64-67                 | 654       | 248        | 273        | 127        | 247        | 73         | 121        | 216       |
| SOKETA69    | 69-75                 | 696       | 279        | 279        | 133        | 279        | 79         | 127        | 240       |
| SOKETA76    | 76-80                 | 737       | 305        | 286        | 146        | 298        | 86         | 133        | 252       |
| SOKETA81    | 81-86                 | 788       | 330        | 298        | 159        | 317        | 92         | 140        | 290       |
| SOKETA87    | 87-93                 | 852       | 356        | 318        | 171        | 337        | 99         | 152        | 320       |
| SOKETA94    | 94-102                | 914       | 381        | 343        | 191        | 369        | 108        | 178        | 350       |
| SOKETA108   | 108-115               | 1145      | 450        | 480        | 205        | 405        | 125        | 195        | 400       |
| SOKETA120   | 120-130               | 1250      | 500        | 500        | 225        | 445        | 143        | 220        | 450       |

► **KAPALI TİP SOKET** WIRE SPELTER SOCKET (CLOSED TYPE)



| KOD<br>CODE | HALAT<br>ÇAPI<br>(mm) | A<br>(mm) | A1<br>(mm) | A2<br>(mm) | B1<br>(mm) | B2<br>(mm) | ØC<br>(mm) | ØD<br>(mm) |
|-------------|-----------------------|-----------|------------|------------|------------|------------|------------|------------|
| SOKETK22    | 20-22                 | 226       | 102        | 124        | 49         | 92         | 25         | 38         |
| SOKETK24    | 24-26                 | 265       | 120        | 107        | 57         | 108        | 31         | 48         |
| SOKETK28    | 28-30                 | 293       | 132        | 116        | 63         | 118        | 35         | 53         |
| SOKETK32    | 32-36                 | 320       | 139        | 130        | 70         | 132        | 40         | 61         |
| SOKETK38    | 37-38                 | 358       | 152        | 155        | 79         | 136        | 41         | 63         |
| SOKETK40    | 40-42                 | 390       | 172        | 171        | 83         | 150        | 47         | 70         |
| SOKETK44    | 44-48                 | 400       | 197        | 202        | 97         | 177        | 54         | 81         |
| SOKETK50    | 50-54                 | 455       | 216        | 224        | 100        | 193        | 57         | 82         |
| SOKETK55    | 55-60                 | 548       | 228        | 247        | 112        | 216        | 63         | 92         |
| SOKETK64    | 64-67                 | 597       | 248        | 270        | 140        | 241        | 73         | 102        |
| SOKETK69    | 69-75                 | 644       | 279        | 286        | 159        | 273        | 79         | 124        |
| SOKETK76    | 76-80                 | 686       | 305        | 298        | 171        | 292        | 86         | 133        |
| SOKETK81    | 81-86                 | 743       | 330        | 311        | 184        | 311        | 92         | 146        |
| SOKETK87    | 87-93                 | 788       | 356        | 330        | 197        | 330        | 99         | 159        |
| SOKETK94    | 94-102                | 845       | 381        | 356        | 216        | 362        | 108        | 178        |
| SOKETK108   | 108-115               | 1000      | 450        | 425        | 235        | 405        | 125        | 190        |
| SOKETK120   | 120-130               | 1150      | 500        | 525        | 260        | 450        | 138        | 200        |

# ÇELİK HALATLAR STEEL WIRE ROPES

## ► SNL WIRE MONOTRON ÇELİK HALATLAR SNL WIRE MONOTRON STEEL WIRE ROPES



**1X19**

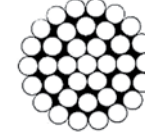


| KOD<br>CODE | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|------------------------------|
|             |                         |                             | 1570<br>[N/mm <sup>2</sup> ]                          | 1770<br>[N/mm <sup>2</sup> ] |
| MON2119     | 2                       | 0,02                        | 3,4                                                   | 3,8                          |
| MON3119     | 3                       | 0,05                        | 7,7                                                   | 8,7                          |
| MON4119     | 4                       | 0,08                        | 13                                                    | 15                           |
| MON5119     | 5                       | 0,12                        | 21                                                    | 24                           |
| MON6119     | 6                       | 0,18                        | 30                                                    | 34                           |
| MON7119     | 7                       | 0,24                        | 42                                                    | 47                           |
| MON8119     | 8                       | 0,32                        | 54                                                    | 61                           |
| MON9119     | 9                       | 0,41                        | 69                                                    | 78                           |
| MON10119    | 10                      | 0,50                        | 85                                                    | 96                           |
| MON11119    | 11                      | 0,61                        | 103                                                   | 116                          |
| MON12119    | 12                      | 0,72                        | 122                                                   | 138                          |
| MON13119    | 13                      | 0,84                        | 143                                                   | 162                          |
| MON14119    | 14                      | 0,98                        | 167                                                   | 189                          |
| MON15119    | 15                      | 1,13                        | 192                                                   | 216                          |
| MON16119    | 16                      | 1,28                        | 218                                                   | 246                          |
| MON17119    | 17                      | 1,44                        | 246                                                   | 277                          |
| MON18119    | 18                      | 1,62                        | 277                                                   | 312                          |
| MON19119    | 19                      | 1,81                        | 308                                                   | 374                          |
| MON20119    | 20                      | 2,00                        | 341                                                   | 385                          |
| MON21119    | 21                      | 2,20                        | 376                                                   | 424                          |
| MON22119    | 22                      | 2,43                        | 415                                                   | 468                          |
| MON24119    | 24                      | 2,88                        | 492                                                   | 555                          |
| MON25119    | 25                      | 3,13                        | 534                                                   | 602                          |
| MON26119    | 26                      | 3,38                        | 577                                                   | 650                          |
| MON28119    | 28                      | 3,88                        | 663                                                   | 747                          |
| MON30119    | 30                      | 4,49                        | 766                                                   | 863                          |

## ► SNL WIRE MONOTRON ÇELİK HALATLAR SNL WIRE MONOTRON STEEL WIRE ROPES



**1X37**



| KOD<br>CODE | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |                              |                              |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|------------------------------|------------------------------|
|             |                         |                             | 1570<br>[N/mm <sup>2</sup> ]                          | 1670<br>[N/mm <sup>2</sup> ] | 1770<br>[N/mm <sup>2</sup> ] |
| MON5137     | 5                       | 0,12                        | 20,1                                                  | 21,4                         | 22,7                         |
| MON6137     | 6                       | 0,17                        | 29,0                                                  | 30,8                         | 32,7                         |
| MON7137     | 7                       | 0,24                        | 39,5                                                  | 42,0                         | 44,5                         |
| MON8137     | 8                       | 0,31                        | 51,5                                                  | 54,8                         | 58,1                         |
| MON9137     | 9                       | 0,39                        | 65,2                                                  | 69,4                         | 73,5                         |
| MON10137    | 10                      | 0,48                        | 80,5                                                  | 85,6                         | 90,8                         |
| MON11137    | 11                      | 0,59                        | 97,4                                                  | 104                          | 110                          |
| MON12137    | 12                      | 0,69                        | 116                                                   | 123                          | 131                          |
| MON13137    | 13                      | 0,82                        | 136                                                   | 145                          | 153                          |
| MON14137    | 14                      | 0,95                        | 158                                                   | 168                          | 178                          |
| MON16137    | 16                      | 1,24                        | 206                                                   | 219                          | 232                          |
| MON18137    | 18                      | 1,57                        | 261                                                   | 277                          | 294                          |
| MON19137    | 19                      | 1,75                        | 291                                                   | 309                          | 328                          |
| MON20137    | 20                      | 1,93                        | 322                                                   | 343                          | 363                          |
| MON22137    | 22                      | 2,34                        | 390                                                   | 414                          | 439                          |
| MON24137    | 24                      | 2,79                        | 464                                                   | 493                          | 523                          |
| MON26137    | 26                      | 3,27                        | 544                                                   | 579                          | 614                          |
| MON28137    | 28                      | 3,79                        | 631                                                   | 671                          | 712                          |



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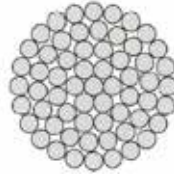


## ÇELİK HALATLAR STEEL WIRE ROPES

### ► SNL WIRE MONOTRON ÇELİK HALATLAR SNL WIRE MONOTRON STEEL WIRE ROPES



1X61

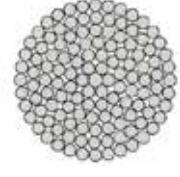


| KOD<br>CODE | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |            |            |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|------------|------------|
|             |                         |                             | Class 1570                                            | Class 1670 | Class 1770 |
|             |                         |                             | [kN]                                                  | [kN]       | [kN]       |
| MON12161    | 12                      | 0,70                        | 116                                                   | 123        | 131        |
| MON13161    | 13                      | 0,82                        | 136                                                   | 145        | 153        |
| MON14161    | 14                      | 0,95                        | 158                                                   | 168        | 178        |
| MON16161    | 16                      | 1,24                        | 206                                                   | 219        | 232        |
| MON18161    | 18                      | 1,56                        | 261                                                   | 277        | 294        |
| MON19161    | 19                      | 1,74                        | 290                                                   | 309        | 327        |
| MON20161    | 20                      | 1,93                        | 322                                                   | 342        | 363        |
| MON22161    | 22                      | 2,34                        | 389                                                   | 414        | 439        |
| MON24161    | 24                      | 2,78                        | 463                                                   | 493        | 522        |
| MON26161    | 26                      | 3,27                        | 544                                                   | 578        | 613        |
| MON28161    | 28                      | 3,79                        | 630                                                   | 671        | 711        |
| MON30161    | 30                      | 4,35                        | 724                                                   | 770        | 816        |
| MON32161    | 32                      | 4,95                        | 823                                                   | 876        | 928        |
| MON34161    | 34                      | 5,60                        | 930                                                   | 989        | 1050       |
| MON35161    | 35                      | 5,90                        | 985                                                   | 1048       | 1111       |
| MON36161    | 36                      | 6,30                        | 1042                                                  | 1109       | 1175       |
| MON38161    | 38                      | 7,00                        | 1161                                                  | 1235       | 1310       |
| MON40161    | 40                      | 7,70                        | 1290                                                  | 1369       | 1451       |

### ► SNL WIRE MONOTRON ÇELİK HALATLAR SNL WIRE MONOTRON STEEL WIRE ROPES



1X127



| KOD<br>CODE | ÇAP<br>Diameter<br>(mm) | AĞIRLIK<br>Weight<br>(kg/m) | MİNİMUM KOPMA YÜKÜ (kN)<br>Minimum Breaking Load (kN) |            |            |
|-------------|-------------------------|-----------------------------|-------------------------------------------------------|------------|------------|
|             |                         |                             | Class 1570                                            | Class 1670 | Class 1770 |
|             |                         |                             | [kN]                                                  | [kN]       | [kN]       |
| MON401127   | 40                      | 7,69                        | 1280                                                  | 1361       | 1443       |
| MON421127   | 42                      | 8,48                        | 1411                                                  | 1501       | 1591       |
| MON441127   | 44                      | 9,31                        | 1549                                                  | 1647       | 1746       |
| MON461127   | 46                      | 10,17                       | 1693                                                  | 1800       | 1908       |
| MON481127   | 48                      | 11,08                       | 1843                                                  | 1960       | 2078       |
| MON501127   | 50                      | 12,00                       | 2000                                                  | 2127       | 2260       |
| MON511127   | 51                      | 12,50                       | 2090                                                  | 2213       | 2350       |
| MON521127   | 52                      | 13,00                       | 2170                                                  | 2301       | 2440       |
| MON541127   | 54                      | 14,00                       | 2340                                                  | 2481       | 2640       |
| MON561127   | 56                      | 15,10                       | 2510                                                  | 2668       | 2840       |



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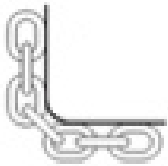
## YÜK ZİNCİRLERİ LOAD CHAINS

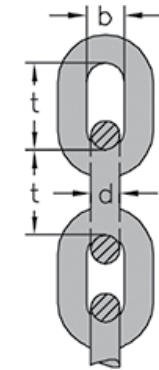
► **GRADE 80 YÜKSEK MUKAVEMETLİ YÜK ZİNCİRLERİ EN818-2** GRADE 80 HIGH TENSILE LIFTING CHAINS EN818-2

| KOD<br>CODE | ANMA ÇAP<br>NOMINAL<br>CHAIN DIA<br>(mm) | ADIM<br>PITCH | GENİŞLİK<br>WIDTH (mm) | GÜVENLİ<br>ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>kgs | TEST<br>YÜKÜ<br>TEST<br>LOAD<br>kN | KOPMA<br>YÜKÜ<br>BREAKING<br>LOAD<br>kN | AĞIRLIK<br>WEIGHT<br>kgs/m |
|-------------|------------------------------------------|---------------|------------------------|---------------------------------------------|------------------------------------|-----------------------------------------|----------------------------|
|             | d                                        | t             | b                      |                                             |                                    |                                         |                            |
| GR806Z      | 6                                        | 18            | 8                      | 1120                                        | 28,3                               | 45,2                                    | 0,8                        |
| GR807Z      | 7                                        | 21            | 10,5                   | 1500                                        | 38,5                               | 61,6                                    | 1,1                        |
| GR808Z      | 8                                        | 24            | 10,8                   | 2000                                        | 50,3                               | 80,4                                    | 1,4                        |
| GR8010Z     | 10                                       | 30            | 13,5                   | 3150                                        | 78,5                               | 126                                     | 2,2                        |
| GR8013Z     | 13                                       | 39            | 17,5                   | 5300                                        | 133                                | 212                                     | 3,8                        |
| GR8016Z     | 16                                       | 48            | 21,5                   | 8000                                        | 201                                | 322                                     | 5,7                        |
| GR8020Z     | 20                                       | 60            | 27                     | 12500                                       | 314                                | 503                                     | 9,0                        |
| GR8022Z     | 22                                       | 66            | 29,5                   | 15000                                       | 380                                | 608                                     | 10,9                       |
| GR8026Z     | 26                                       | 78            | 35                     | 21200                                       | 531                                | 849                                     | 15,2                       |
| GR8032Z     | 32                                       | 96            | 41,6                   | 31500                                       | 804                                | 1290                                    | 23,0                       |

### KÖŞELİ KULLANIM

USE OF THE CHAIN ON EDGE

|                                       |  |  |  |
|---------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                       | R ZİNCİR ÇAPININ 2 KATINDAN BÜYÜKSE<br>R ≥ THAN DOUBLE CHAIN DIAMETER               | R ZİNCİR ÇAPINDAN BÜYÜKSE<br>R ≥ THAN THE CHAIN DIAMETER                              | KESKİN KÖŞE<br>SHARP EDGE                                                             |
| KESİNTİ KATSAYISI<br>REDUCTION FACTOR | 1                                                                                   | 0,7                                                                                   | 0,5                                                                                   |
| ŞOK YÜKÜ<br>IMPULSIVE LOAD            | ZAYIF<br>LIGHT IMPULSIVE                                                            | ORTA<br>MEDIUM IMPULSIVE                                                              | GÜÇLÜ<br>STRONG IMPULSIVE                                                             |
| KESİNTİ KATSAYISI<br>REDUCTION FACTOR | 1                                                                                   | 0,7                                                                                   | İZİN VERİLMEZ<br>NOT ALLOWED                                                          |



# YÜK ZİNCİRLERİ LOAD CHAINS

► **GRADE 80 YÜKSEK MUKAVEMETLİ YÜK ZİNCİRLERİ EN818-2** GRADE 80 HIGH TENSILE LIFTING CHAINS EN818-2

| ZİNCİR<br>ÖLÇÜSÜ<br>CHAIN<br>mm          | TEK KOL<br>SINGLE LEG<br>Kg | ÇİFT KOL<br>DOUBLE LEGS<br>Kg |                | 3-4 KOLLU<br>3-4-LEGS<br>Kg |                  | BOĞDURMA<br>SONSUZ<br>CHOKER<br>ENDLESS<br>Kg | SONSUZ<br>SAPAN<br>ENDLESS<br>SLING<br>Kg |                 |
|------------------------------------------|-----------------------------|-------------------------------|----------------|-----------------------------|------------------|-----------------------------------------------|-------------------------------------------|-----------------|
|                                          |                             |                               |                |                             |                  |                                               |                                           |                 |
| ÇALIŞMA<br>KATSAYISI<br>CHARGE<br>FACTOR | 1                           | 1.4<br>0°<β≤45°               | 1<br>45°<β≤60° | 2.1<br>0°<β≤45°             | 1.5<br>45°<β≤60° | 1.6                                           | 1.4<br>0°<β≤45°                           | 2.1<br>0°<β≤45° |
| 6                                        | 1120                        | 1600                          | 1120           | 2360                        | 1700             | 1800                                          | 1600                                      | 2360            |
| 7                                        | 1500                        | 2120                          | 1500           | 3150                        | 2240             | 2500                                          | 2120                                      | 3150            |
| 8                                        | 2000                        | 2800                          | 2000           | 4250                        | 3000             | 3150                                          | 2800                                      | 4250            |
| 10                                       | 3150                        | 4250                          | 3150           | 6700                        | 4750             | 5000                                          | 4250                                      | 6700            |
| 13                                       | 5300                        | 7500                          | 5300           | 11200                       | 8000             | 8500                                          | 7500                                      | 11200           |
| 16                                       | 8000                        | 11200                         | 8000           | 17000                       | 11800            | 12500                                         | 11200                                     | 17000           |
| 20                                       | 12500                       | 17000                         | 12500          | 26500                       | 1900             | 20000                                         | 17000                                     | 26500           |
| 22                                       | 15000                       | 21200                         | 15000          | 31500                       | 22400            | 23600                                         | 21200                                     | 31500           |
| 26                                       | 21200                       | 30000                         | 21200          | 45000                       | 31500            | 33500                                         | 30000                                     | 45000           |
| 32                                       | 31500                       | 45000                         | 31500          | 67000                       | 47500            | 50000                                         | 45000                                     | 67000           |

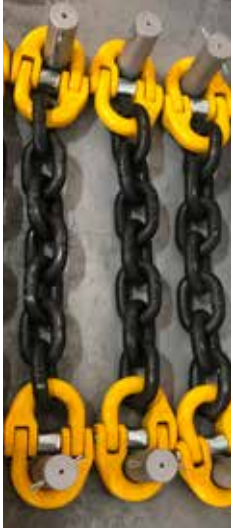


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## YÜK ZİNCİRLERİ LOAD CHAINS

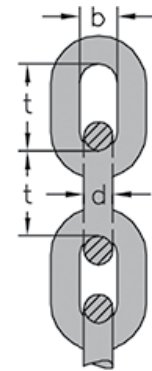
► **GRADE 100 YÜKSEK MUKAVEMETLİ YÜK ZİNCİRLERİ EN818-2** GRADE 100 HIGH TENSILE LIFTING CHAINS EN818-2

| KOD<br>CODE | ANMA ÇAPI<br>NOMINAL<br>CHAIN DIA<br>(mm) | ADIM<br>PITCH | GENİŞLİK<br>WIDTH (mm) | GÜVENLİ<br>ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>kgs | TEST<br>YÜKÜ<br>TEST<br>LOAD<br>kN | KOPMA<br>YÜKÜ<br>BREAKING<br>LOAD<br>kN | AĞIRLIK<br>WEIGHT<br>kgs/m |
|-------------|-------------------------------------------|---------------|------------------------|---------------------------------------------|------------------------------------|-----------------------------------------|----------------------------|
|             | d                                         | t             | b                      |                                             |                                    |                                         |                            |
| GR1006Z     | 6                                         | 18            | 8,5                    | 1400                                        | 35,3                               | 56,5                                    | 0,9                        |
| GR1007Z     | 7                                         | 21            | 9,1                    | 1900                                        | 48,1                               | 77                                      | 1,2                        |
| GR1008Z     | 8                                         | 24            | 11                     | 2500                                        | 62,8                               | 101                                     | 1,6                        |
| GR10010Z    | 10                                        | 30            | 13,5                   | 4000                                        | 98,2                               | 157                                     | 2,5                        |
| GR10013Z    | 13                                        | 39            | 16,9                   | 6700                                        | 166                                | 265                                     | 4,2                        |
| GR10016Z    | 16                                        | 48            | 20,8                   | 10000                                       | 251                                | 402                                     | 6,2                        |
| GR10020Z    | 20                                        | 60            | 26                     | 16000                                       | 393                                | 628                                     | 10                         |
| GR10022Z    | 22                                        | 66            | 28,6                   | 19000                                       | 475                                | 760                                     | 11,9                       |
| GR10026Z    | 26                                        | 78            | 33,8                   | 26500                                       | 664                                | 1060                                    | 16,3                       |



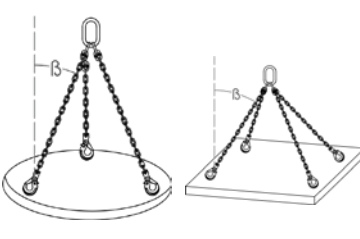
### KÖŞELİ KULLANIM USE OF THE CHAIN ON EDGE

|                                       | R ZİNCİR ÇAPININ 2 KATINDAN BÜYÜKSE<br>R <sub>2</sub> THAN DOUBLE CHAIN DIAMETER | R ZİNCİR ÇAPINDAN BÜYÜKSE<br>R <sub>2</sub> THAN THE CHAIN DIAMETER | KESKİN KÖŞE<br>SHARP EDGE    |
|---------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------|
| KESİNTİ KATSAYISI<br>REDUCTION FACTOR | 1                                                                                | 0,7                                                                 | 0,5                          |
| ŞOK YÜKÜ<br>IMPULSIVE LOAD            | ZAYIF<br>LIGHT IMPULSIVE                                                         | ORTA<br>MEDIUM IMPULSIVE                                            | GÜÇLÜ<br>STRONG IMPULSIVE    |
| KESİNTİ KATSAYISI<br>REDUCTION FACTOR | 1                                                                                | 0,7                                                                 | İZİN VERİLMEZ<br>NOT ALLOWED |



# YÜK ZİNCİRLERİ LOAD CHAINS

► **GRADE 100 YÜKSEK MUKAVEMETLİ YÜK ZİNCİRLERİ EN818-2** GRADE 100 HIGH TENSILE LIFTING CHAINS EN818-2

| ZİNCİR<br>ÖLÇÜSÜ<br>CHAIN<br>mm          | TEK KOL<br>SINGLE LEG<br>Kg                                                       | ÇİFT KOL<br>DOUBLE LEGS<br>Kg                                                     |                | 3-4 KOLLU<br>3-4-LEGS<br>Kg                                                        |                  | BOĞDURMA<br>SONSUZ<br>CHOKER<br>ENDLESS<br>Kg                                       | SONSUZ<br>SAPAN<br>ENDLESS<br>SLING<br>Kg                                           |                 |
|------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|
|                                          |  |  |                |  |                  |  |  |                 |
| ÇALIŞMA<br>KATSAYISI<br>CHARGE<br>FACTOR | 1                                                                                 | 1.4<br>0°<β≤45°                                                                   | 1<br>45°<β≤60° | 2.1<br>0°<β≤45°                                                                    | 1.5<br>45°<β≤60° | 1.6                                                                                 | 1.4<br>0°<β≤45°                                                                     | 2.1<br>0°<β≤45° |
| 6                                        | 1400                                                                              | 2000                                                                              | 1400           | 3000                                                                               | 2120             | 2240                                                                                | 2000                                                                                | 3000            |
| 7                                        | 1900                                                                              | 2650                                                                              | 1900           | 4000                                                                               | 2800             | 3000                                                                                | 2650                                                                                | 4000            |
| 8                                        | 2500                                                                              | 3550                                                                              | 2500           | 5300                                                                               | 3750             | 4000                                                                                | 3550                                                                                | 5300            |
| 10                                       | 4000                                                                              | 5600                                                                              | 4000           | 8000                                                                               | 6000             | 6300                                                                                | 5600                                                                                | 8000            |
| 13                                       | 6700                                                                              | 9500                                                                              | 6700           | 14000                                                                              | 10000            | 10600                                                                               | 9500                                                                                | 14000           |
| 16                                       | 10000                                                                             | 14000                                                                             | 10000          | 21200                                                                              | 15000            | 16000                                                                               | 14000                                                                               | 21200           |
| 20                                       | 16000                                                                             | 22400                                                                             | 16000          | 33600                                                                              | 24000            | 25600                                                                               | 22400                                                                               | 33600           |
| 22                                       | 19000                                                                             | 26500                                                                             | 19000          | 40000                                                                              | 28000            | 30000                                                                               | 26500                                                                               | 40000           |
| 26                                       | 26500                                                                             | 37100                                                                             | 26500          | 55650                                                                              | 39750            | 42400                                                                               | 37100                                                                               | 55650           |
| 32                                       | 40000                                                                             | 56000                                                                             | 40000          | 85000                                                                              | 60000            | 64000                                                                               | 56000                                                                               | 85000           |



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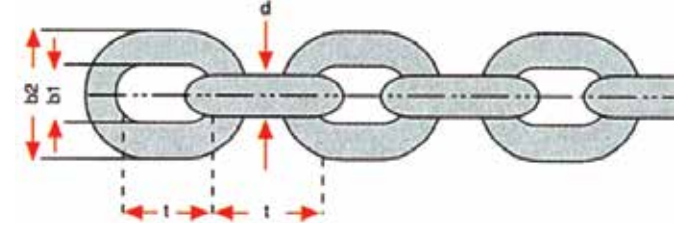


ŞENOL MAKİNA



## YÜK ZİNCİRLERİ LOAD CHAINS

► **KISA BAKLALI KALİBRE ZİNCİRLER DIN766 (KONVEYÖR VE ELEVATÖRLER İÇİN)**  
SHORT LINK CALIBRATED CHAINS DIN 766 (FOR CONVEYORS AND ELEVATORS)



| KOD<br>CODE | ANMA ÇAPI<br>NOMINAL CHAIN DIA |          | ADIM<br>PITCH |          |       | GENİŞLİK<br>WIDTH (mm) |         | METRE AĞIRLIĞI<br>METER<br>WEIGHT<br>kg/m | ÇALIŞMA YÜKÜ<br>WORKING<br>LOAD<br>kg | TEST YÜKÜ<br>PROOF<br>LOAD<br>kg/max | KOPMA YÜKÜ<br>BREAKING<br>LOAD<br>kg/min |
|-------------|--------------------------------|----------|---------------|----------|-------|------------------------|---------|-------------------------------------------|---------------------------------------|--------------------------------------|------------------------------------------|
|             | d(mm)                          | Tolerans | t (mm)        | Tolerans |       | b1(min)                | b2(max) |                                           |                                       |                                      |                                          |
| DIN7665Z    | 5                              | ± 0,2    | 18,5          | + 0,4    | - 0,2 | 6                      | 17      | 0,5                                       | 320                                   | 8                                    | 12,5                                     |
| DIN7666Z    | 6                              | ± 0,2    | 18,5          | + 0,4    | - 0,2 | 7,2                    | 20,4    | 0,8                                       | 400                                   | 10                                   | 16                                       |
| DIN7667Z    | 7                              | ± 0,3    | 22            | + 0,4    | - 0,2 | 8,4                    | 23,8    | 1,1                                       | 630                                   | 16                                   | 25                                       |
| DIN7668Z    | 8                              | ± 0,3    | 24            | + 0,4    | - 0,2 | 9,6                    | 27,2    | 1,4                                       | 800                                   | 20                                   | 32                                       |
| DIN7669Z    | 9                              | ± 0,4    | 27            | + 0,5    | - 0,3 | 10,8                   | 30,6    | 1,8                                       | 1000                                  | 25                                   | 40                                       |
| DIN76610Z   | 10                             | ± 0,4    | 28            | + 0,5    | - 0,3 | 12                     | 36      | 2,3                                       | 1250                                  | 32                                   | 50                                       |
| DIN76611Z   | 11                             | ± 0,4    | 31            | + 0,5    | - 0,3 | 13,2                   | 40      | 2,7                                       | 1600                                  | 40                                   | 63                                       |
| DIN76612Z   | 12                             | ± 0,4    | 36            | + 0,5    | - 0,3 | 15                     | 43      | 3,1                                       | 1750                                  | 44                                   | 70                                       |
| DIN76613Z   | 13                             | ± 0,5    | 36            | + 0,6    | - 0,3 | 15,6                   | 47      | 3,9                                       | 2000                                  | 50                                   | 80                                       |
| DIN76614Z   | 14                             | ± 0,6    | 41            | + 0,7    | - 0,4 | 16,8                   | 50      | 4,4                                       | 2500                                  | 63                                   | 100                                      |
| DIN76616Z   | 16                             | ± 0,6    | 45            | + 0,8    | - 0,4 | 19,2                   | 58      | 5,8                                       | 3200                                  | 80                                   | 125                                      |
| DIN76618Z   | 18                             | ± 0,9    | 50            | + 0,8    | - 0,4 | 21,6                   | 65      | 7,4                                       | 4000                                  | 100                                  | 160                                      |
| DIN76620Z   | 20                             | ± 1      | 56            | + 1      | - 0,5 | 24                     | 72      | 9                                         | 5000                                  | 125                                  | 200                                      |
| DIN76623Z   | 23                             | ± 1,2    | 64            | + 1,1    | - 0,5 | 27,6                   | 83      | 12                                        | 6300                                  | 160                                  | 250                                      |
| DIN76626Z   | 26                             | ± 1,3    | 73            | + 1,2    | - 0,6 | 31,2                   | 94      | 15                                        | 8000                                  | 200                                  | 320                                      |



## **ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI**

CONNECTION ACCESSORIES



ŞENOL MAKİNA



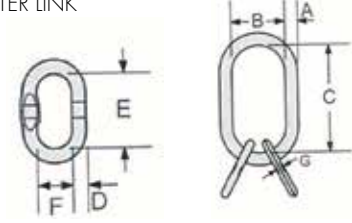
## ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES

### ► G 80 SAPAN HALKASI GRADE 80 MASTER LINK

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | A<br>(mm) | B<br>(mm) | D<br>(mm) |
|-------------|------------------------------------|------------------------------------|-----------|-----------|-----------|
| SH12        | 2.2                                | 0.42                               | 127       | 63.5      | 12        |
| SH16        | 3                                  | 0.8                                | 152       | 76        | 16        |
| SH20        | 4.7                                | 1                                  | 140       | 70        | 20        |
| SH22        | 6.4                                | 1.5                                | 160       | 90        | 22        |
| SH26        | 10                                 | 2.1                                | 178       | 89        | 26        |
| SH32        | 15                                 | 4.3                                | 222       | 111       | 32        |
| SH38        | 21.7                               | 7.5                                | 267       | 132       | 38        |
| SH45        | 28.4                               | 11.5                               | 305       | 152       | 45        |
| SH50        | 44.3                               | 16.5                               | 355       | 178       | 50        |
| SH60        | 66.8                               | 24.6                               | 406       | 203       | 60        |
| SH70        | 98                                 | 40                                 | 406       | 240       | 70        |



### ► G 80 YAVRULU SAPAN HALKASI GRADE 80 ASSEMBLY MASTER LINK

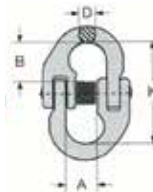


| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | ÖLÇÜ<br>SIZE<br>(mm) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | F<br>(mm) | G<br>(mm) |
|-------------|------------------------------------|----------------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| YSH20       | 4.1                                | 20                   | 1.68                               | 70        | 140       | 14        | 85        | 40        | 7.6       |
| YSH26       | 8.4                                | 26                   | 3.36                               | 89        | 178       | 18        | 100       | 60        | 8.4       |
| YSH32       | 14.1                               | 32                   | 6.3                                | 111       | 222       | 22        | 100       | 60        | 13.5      |
| YSH38       | 21.3                               | 38                   | 12.8                               | 133       | 267       | 30        | 150       | 70        | 16.5      |
| YSH45       | 33.3                               | 45                   | 19.5                               | 152       | 305       | 32        | 160       | 90        | 18.5      |
| YSH50       | 40.3                               | 50                   | 25                                 | 178       | 356       | 38        | 180       | 100       | -         |



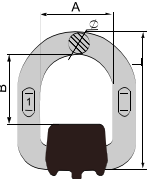
### ► G 80 BAĞLANTI HALKASI AVRUPA TİPİ GRADE 80 CONNECTION LINK

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | ÖLÇÜ<br>SIZE<br>(mm) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | A<br>(mm) | B<br>(mm) | K<br>(mm) | D<br>(mm) |
|-------------|------------------------------------|----------------------|------------------------------------|-----------|-----------|-----------|-----------|
| BH8         | 2                                  | 7-8                  | 0.2                                | 20.5      | 48        | 57        | 8.5       |
| BH10        | 3.15                               | 10                   | 0.38                               | 28        | 60        | 68        | 10.8      |
| BH13        | 5.4                                | 13                   | 0.76                               | 30        | 76        | 83        | 15        |
| BH16        | 8                                  | 16                   | 1.1                                | 36.3      | 91        | 105       | 19.8      |
| BH20        | 12.5                               | 20                   | 1.8                                | 44        | 109       | 120       | 24        |
| BH22        | 15                                 | 22                   | 3.2                                | 51        | 130       | 137       | 26        |
| BH26        | 20                                 | 26                   | 4.5                                | 58        | 152       | 157       | 30        |
| BH32        | 31                                 | 32                   | 9                                  | 67.5      | 190       | 201       | 37        |



### ► D HALKA GRADE 80 D RING

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | A<br>(mm) | B<br>(mm) | L<br>(mm) |
|-------------|------------------------------------|------------------------------------|-----------|-----------|-----------|
| DH1         | 1                                  | 0.40                               | 41        | 40.5      | 79        |
| DH2         | 2                                  | 0.50                               | 42.5      | 42.5      | 88        |
| DH3         | 3                                  | 0.70                               | 45        | 47        | 94        |
| DH5         | 5                                  | 1.45                               | 55        | 57        | 118       |
| DH8         | 8                                  | 2.50                               | 70        | 65        | 141       |



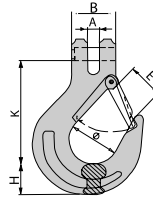


ŞENOL MAKİNA

# ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES

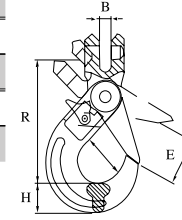
## ► G 80 SUSTALI ZİNCİR SAPAN KANCASI GRADE 80 S CLEVIS SLING HOOK WITH LATCH

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | ÖLÇÜ<br>SIZE<br>(mm) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | A<br>(mm) | B<br>(mm) | E<br>(mm) | H<br>(mm) | K<br>(mm) |
|-------------|------------------------------------|----------------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| SSK8        | 2                                  | 8                    | 0.5                                | 9.5       | 37        | 25        | 32.5      | 85        |
| SSK10       | 3.15                               | 10                   | 0.9                                | 13        | 49        | 31.5      | 35        | 104       |
| SSK13       | 5.3                                | 13                   | 1.7                                | 16.5      | 56.5      | 35        | 42        | 128       |
| SSK16       | 8                                  | 16                   | 3.5                                | 21.5      | 70.5      | 49        | 53.5      | 150       |
| SSK20       | 12.5                               | 20                   | 6.19                               | 24        | 77        | 59        | 58        | 180       |
| SSK22       | 15                                 | 22                   | 10                                 | 27        | 91        | 72.5      | 62        | 213       |



## ► G80 KİLİTLİ ZİNCİR SAPAN KANCASI GRADE 80 CLEVIS SELF LOCKING SLING HOOK

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | ÖLÇÜ<br>SIZE<br>(mm) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | B<br>(mm) | E<br>(mm) | R<br>(mm) | H<br>(mm) |
|-------------|------------------------------------|----------------------|------------------------------------|-----------|-----------|-----------|-----------|
| KSK8        | 2                                  | 8                    | 0.85                               | 9.5       | 39        | 98        | 24        |
| KSK10       | 3.15                               | 10                   | 1.45                               | 12        | 52        | 142       | 28        |
| KSK13       | 5.3                                | 13                   | 2.9                                | 15        | 65        | 181       | 40        |
| KSK16       | 8                                  | 16                   | 5.6                                | 18        | 75        | 222       | 51        |
| KSK20       | 12.5                               | 20                   | 6.5                                | 25        | 83        | 237       | 56        |
| KSK22       | 15                                 | 22                   | 16                                 | 25.5      | 88        | 272       | 67        |



## ► G80 KİLİTLİ KISALTMA KAŞIK KANCASI GRADE 80 CLEVIS CHAIN CLUTCH

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | ÖLÇÜ<br>SIZE<br>(mm) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | A<br>(mm) | C<br>(mm) | E<br>(mm) | L<br>(mm) |
|-------------|------------------------------------|----------------------|------------------------------------|-----------|-----------|-----------|-----------|
| KKK8        | 2                                  | 8                    | 0.41                               | 9.5       | 45        | 36        | 101       |
| KKK10       | 3.15                               | 10                   | 0.97                               | 13        | 55        | 48        | 138       |
| KKK13       | 5.3                                | 13                   | 2.0                                | 18        | 75        | 59        | 177       |
| KKK16       | 8                                  | 16                   | 3.32                               | 21        | 93        | 73        | 220       |



## ► G80 KİLİTLİ BOĞDURMA KISALTMA KANCASI GRADE 80 CLEVIS CHAIN CLUTCH

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | ÖLÇÜ<br>SIZE<br>(mm) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | A<br>(mm) | B<br>(mm) | E<br>(mm) | M<br>(mm) | L<br>(mm) |
|-------------|------------------------------------|----------------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| KBK8        | 2                                  | 8                    | 0.33                               | 9.5       | 35        | 11        | 49.5      | 89        |
| KBK10       | 3.15                               | 10                   | 0.88                               | 12.5      | 42.5      | 13.20     | 70.5      | 126.5     |
| KBK13       | 5.3                                | 13                   | 1.85                               | 15        | 53        | 16.5      | 90        | 163.5     |
| KBK16       | 8                                  | 16                   | 3.24                               | 19.5      | 65.5      | 19.2      | 112.5     | 183.5     |



## ► DÖVME SAC KANCASI FORGED HOOK

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | A<br>(mm) | B<br>(mm) | N<br>(mm) | H<br>(mm) | L<br>(mm) |
|-------------|------------------------------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| DK5         | 5                                  | 9,2                                | 139       | 53        | 75        | 112       | 337       |
| DK10        | 10                                 | 21,8                               | 205       | 125       | 115       | 146       | 435       |





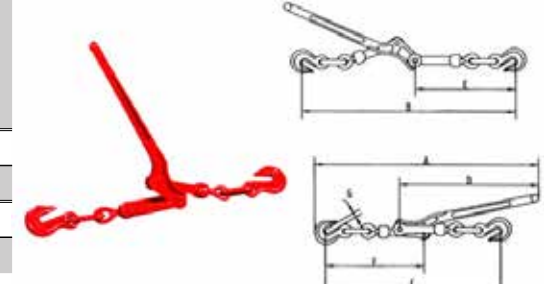
ŞENOL MAKİNA



## ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES

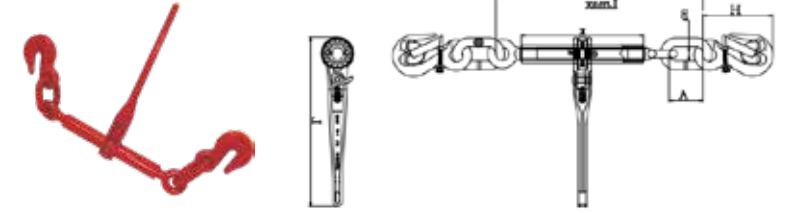
### ► KOLLU ZİNCİR GERDİRME LOAD BINDER

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(Inch) | ÖLÇÜ<br>SIZE<br>(mm) | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | TEST<br>YÜKÜ<br>TEST<br>LOAD<br>(Ton) | MIN KOPMA<br>YÜKÜ<br>M.B.L.<br>(Ton) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | KOL<br>UZUNLUĞU<br>ARM<br>LENGTH<br>(Inch) | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | F<br>(mm) | G<br>(mm) |
|-------------|------------------------|----------------------|------------------------------------|---------------------------------------|--------------------------------------|------------------------------------|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ZG68K       | 1/4-5/16               | 6-8                  | 2.2                                | 4.4                                   | 7.8                                  | 3.52                               | 11.42                                      | 469.9     | 439.4     | 359.9     | 290.1     | 210.1     | 205.0     | 8.9       |
| ZG810K      | 5/16-3/8               | 8-10                 | 5.4                                | 10.8                                  | 19                                   | 8.37                               | 15.43                                      | 640.1     | 589.3     | 495.0     | 395.0     | 285.0     | 285.0     | 13.0      |
| ZG1012K     | 3/8-1/2                | 10-12                | 9.2                                | 18.4                                  | 33                                   | 12.11                              | 17.24                                      | 723.9     | 670.1     | 560.1     | 448.1     | 329.9     | 309.9     | 15.0      |
| ZG1216K     | 1/2-5/8                | 12-16                | 11                                 | 22                                    | 44                                   | 19.70                              | 21.00                                      | 860.0     | 765.0     | 654.8     | 530.1     | 365.0     | 365.0     | 18.8      |



### ► CİRCİRLİ ZİNCİR GERDİRME RATCHET LOAD BINDER

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(mm) | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | TEST<br>YÜKÜ<br>TEST<br>LOAD<br>(Ton) | MIN KOPMA<br>YÜKÜ<br>M.B.L.<br>(Ton) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | KOL<br>UZUNLUĞU<br>ARM<br>LENGTH<br>(mm) | A<br>(mm) | B<br>(mm) | H<br>(mm) |
|-------------|----------------------|------------------------------------|---------------------------------------|--------------------------------------|------------------------------------|------------------------------------------|-----------|-----------|-----------|
| ZG810C      | 8-10                 | 4                                  | 6                                     | 8                                    | 3,18                               | 210                                      | 50        | 25        | 94        |
| ZG1012C     | 10-12                | 6,3                                | 9,5                                   | 12,6                                 | 5,30                               | 280                                      | 50        | 25        | 120       |
| ZG1216C     | 12-16                | 10                                 | 15                                    | 21,2                                 | 9,50                               | 358                                      | 72        | 30        | 144       |
| ZG1620C     | 16-20                | 16                                 | 24                                    | 32,2                                 | 12,60                              | 393                                      | 72        | 32        | 178       |



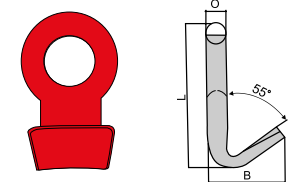
### ► G80 FIRDÖNDÜLÜ AYBOLT GRADE 80 SWIVEL MULTI DIRECT

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | ÖLÇÜ<br>SIZE<br>(mm) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | B<br>(mm) | C<br>(mm) | DxE<br>(mm) | G<br>(mm) |
|-------------|------------------------------------|----------------------|------------------------------------|-----------|-----------|-------------|-----------|
| FA12        | 0.5                                | M 12                 | 0.44                               | 36        | 14.5      | 12x18       | 51        |
| FA16        | 1.25                               | M 16                 | 0.43                               | 36        | 15        | 16x30       | 52        |
| FA20        | 2                                  | M 20                 | 0.96                               | 50        | 19        | 20x30       | 68        |
| FA24        | 3.15                               | M 24                 | 1.45                               | 57        | 22        | 24x30       | 78        |
| FA27        | 3.2                                | M 27                 | 2.15                               | 66        | 23.5      | 27x35       | 97        |
| FA30        | 5                                  | M 30                 | 3.57                               | 80        | 28        | 30x35       | 112       |
| FA36        | 8                                  | M 36                 | 4.15                               | 80        | 30        | 36x50       | 109       |



### ► G80 VARİL KALDIRMA KANCASI GRADE 80 BARREL HOOK

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | ÖLÇÜ<br>SIZE<br>(mm) | BİRİM<br>AĞIRLIK<br>WEIGHT<br>(kg) | B<br>(mm) | L<br>(mm) |
|-------------|------------------------------------|----------------------|------------------------------------|-----------|-----------|
| VK1         | 1                                  | 17                   | 0,81                               | 21,5      | 118       |



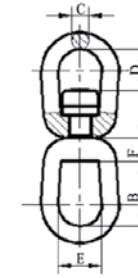
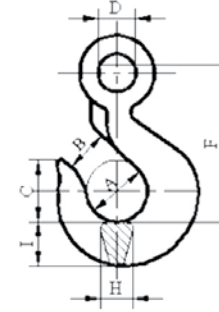
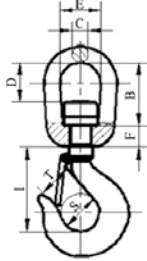


ŞENOL MAKİNA

## ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES

### ► KUŞGÖZ KANCA 320 EYE HOOK 320

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | F<br>(mm) | H<br>(mm) | I<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg/ad) | TEST<br>YÜKÜ<br>TEST LOAD<br>(TON) |
|-------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------------|------------------------------------|
| GK1,12      | 1.12                               | 32        | 24        | 32        | 19        | 86        | 18        | 21        | 0.38                         | 2.2                                |
| GK1,5       | 1.5                                | 35        | 25        | 39        | 23        | 96        | 19        | 23.5      | 0.53                         | 3                                  |
| GK2,5       | 2.5                                | 38.5      | 27        | 42        | 29        | 106       | 24        | 28        | 0.82                         | 5                                  |
| GK3,15      | 3.15                               | 43        | 32        | 51        | 31.5      | 120       | 27        | 33        | 1.38                         | 6.6                                |
| GK5,3       | 5.3                                | 51        | 36        | 53        | 39        | 147       | 35        | 38        | 2.2                          | 10.8                               |
| GK8         | 8                                  | 63.5      | 47        | 65        | 50.5      | 188       | 45        | 49        | 4.32                         | 16                                 |
| GK11,2      | 11.2                               | 77        | 60        | 80        | 62        | 232       | 52        | 62        | 7.74                         | 22.4                               |
| GK16        | 16                                 | 84        | 69        | 83        | 71        | 258       | 59        | 72        | 11.85                        | 32                                 |
| GK21,2      | 21.2                               | 127       | 85        | 100       | 80        | 291       | 65        | 85        | 20                           | 42.4                               |
| GK25        | 25                                 | 135       | 100       | 115       | 85        | 321       | 75        | 92        | 24                           | 50                                 |
| GK30        | 30                                 | 145       | 110       | 130       | 90        | 348       | 85        | 102       | 30                           | 60                                 |



### ► FIRDÖNDÜLÜ KANCA 322 SWIVEL HOOK 322

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | S<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg/ad) | TEST<br>YÜKÜ<br>TEST LOAD<br>(TON) |
|-------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|------------------------------|------------------------------------|
| KF2,5       | 2.5                                | 63        | 17        | 41        | 41        | 37        | 1.35                         | 5                                  |
| KF3,2       | 3.2                                | 73        | 21        | 49        | 50        | 42        | 2                            | 6.4                                |
| KF5,4       | 5.4                                | 81        | 23        | 53        | 65        | 51        | 3.60                         | 10.8                               |
| KF8         | 8                                  | 92        | 26        | 60        | 60        | 64        | 6                            | 16                                 |
| KF11,5      | 11.5                               | 114       | 34        | 70        | 79        | 78        | 11                           | 23                                 |
| KF16        | 16                                 | 126       | 36        | 67        | 97        | 85        | 17                           | 32                                 |
| KF22        | 22                                 | 160       | 42        | 95        | 120       | 106       | 38                           | 44                                 |
| KF30        | 30                                 | 165       | 50        | 91        | 128       | 110       | 54                           | 60                                 |

### ► GÖZLÜ FIRDÖNDÜ 701 EYE SWIVEL HOOK 701

| KOD<br>CODE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | F<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg/ad) | TEST<br>YÜKÜ<br>TEST LOAD<br>(TON) |
|-------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|------------------------------|------------------------------------|
| GF2,5       | 2.5                                | 60        | 17        | 38        | 40        | 20        | 1.4                          | 5                                  |
| GF3,2       | 3.2                                | 73        | 21        | 49        | 51        | 27        | 2.3                          | 6.4                                |
| GF5,4       | 5.4                                | 81        | 25        | 53        | 65        | 27        | 3.6                          | 10.8                               |
| GF8         | 8                                  | 92        | 29        | 60        | 60        | 33        | 5.5                          | 16                                 |
| GF11,5      | 11.5                               | 105       | 35        | 70        | 79        | 45        | 9.8                          | 23                                 |
| GF16        | 16                                 | 115       | 36        | 67        | 97        | 42        | 14.2                         | 32                                 |
| GF22        | 22                                 | 155       | 42        | 95        | 120       | 48        | 22.5                         | 44                                 |
| GF30        | 30                                 | 165       | 52        | 103       | 128       | 55        | 34.7                         | 60                                 |





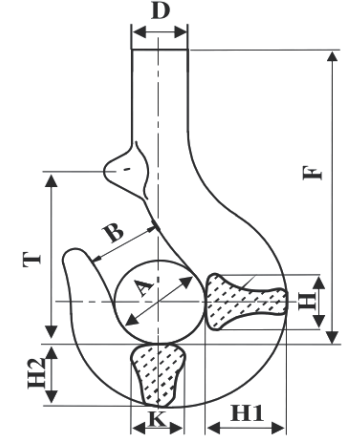
ŞENOL MAKİNA



## ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES

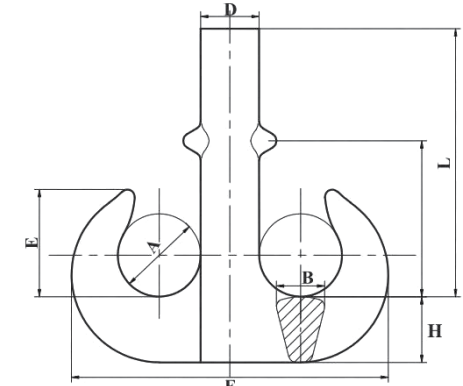
### ► SAPLI KANCA (DIN 15401) DIN 15401 HOOK

| KOD<br>CODE  | A<br>(mm) | B<br>(mm) | D<br>(mm) | F<br>(mm) | H<br>(mm) | H1<br>(mm) | H2<br>(mm) | K<br>(mm) | T<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg/ad) |
|--------------|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|------------------------------|
| SK15401-0,25 | 36        | 28        | 20        | 152       | 22        | 28         | 25         | 20        | 75        | 0.74                         |
| SK15401-0,5  | 42        | 34        | 25        | 172       | 30        | 38         | 31         | 26        | 95        | 1.4                          |
| SK15401-0,8  | 48        | 38        | 30        | 191       | 37        | 44         | 37         | 32        | 103       | 2.3                          |
| SK15401-1    | 50        | 40        | 32        | 206       | 41        | 48         | 40         | 35        | 108       | 2.6                          |
| SK15401-1,6  | 56        | 45        | 36        | 233       | 46        | 56         | 48         | 40        | 119       | 4.3                          |
| SK15401-2,5  | 63        | 50        | 42        | 263       | 56        | 67         | 58         | 48        | 135       | 7.0                          |
| SK15401-4    | 71        | 56        | 48        | 297       | 65        | 80         | 67         | 54        | 152       | 9.9                          |
| SK15401-5    | 80        | 63        | 55        | 332       | 73        | 90         | 75         | 62        | 170       | 13.6                         |
| SK15401-6    | 91        | 72        | 62        | 390       | 80        | 100        | 86         | 67        | 195       | 20.4                         |
| SK15401-8    | 101       | 81        | 67        | 435       | 92        | 113        | 96         | 76        | 213       | 28.8                         |
| SK15401-10   | 118       | 93        | 77        | 490       | 105       | 125        | 110        | 90        | 225       | 39                           |
| SK15401-12   | 130       | 106       | 88        | 540       | 114       | 140        | 123        | 105       | 250       | 62                           |
| SK15401-16   | 145       | 114       | 97        | 600       | 130       | 168        | 132        | 118       | 290       | 95                           |
| SK15401-20   | 165       | 130       | 110       | 680       | 140       | 184        | 156        | 120       | 340       | 135                          |
| SK15401-25   | 180       | 140       | 124       | 750       | 160       | 200        | 170        | 132       | 360       | 150                          |
| SK15401-32   | 200       | 170       | 136       | 830       | 180       | 240        | 190        | 160       | 420       | 200                          |
| SK15401-40   | 230       | 180       | 155       | 930       | 200       | 250        | 215        | 170       | 440       | 310                          |
| SK15401-50   | 250       | 210       | 175       | 1000      | 224       | 280        | 236        | 190       | 485       | 430                          |



### ► ÇİFT AĞIZLI SAPLI KANCA (DIN 15402) DIN 15402 RAMSHORN HOOK

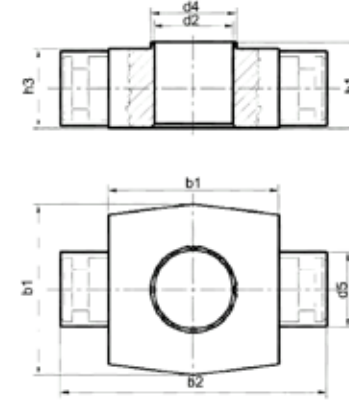
| KOD<br>CODE | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | F<br>(mm) | L<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg/ad) |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------------|
| SK15402-8   | 80        | 67        | 85        | 67        | 103       | 337       | 415       | 25                           |
| SK15402-10  | 90        | 75        | 95        | 75        | 116       | 377       | 450       | 35                           |
| SK15402-12  | 100       | 85        | 106       | 85        | 130       | 421       | 510       | 49                           |
| SK15402-16  | 112       | 95        | 118       | 95        | 146       | 471       | 580       | 69                           |
| SK15402-20  | 125       | 106       | 132       | 106       | 163       | 531       | 650       | 97                           |
| SK15402-25  | 140       | 118       | 150       | 118       | 182       | 598       | 715       | 135                          |
| SK15402-32  | 160       | 132       | 170       | 132       | 205       | 672       | 790       | 193                          |
| SK15402-40  | 180       | 150       | 190       | 150       | 230       | 754       | 885       | 280                          |
| SK15402-50  | 200       | 170       | 212       | 170       | 260       | 842       | 965       | 388                          |



# ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES

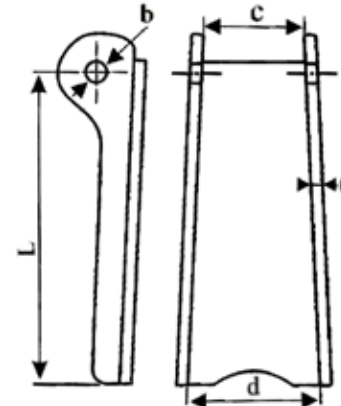
## ► KANCA TRAVERSİ HOOK TRAVERS

| KOD<br>CODE | ÖLÇÜ<br>SIZE (mm) | B1<br>(mm) | B2<br>(mm) | D2<br>(mm) | D4<br>(mm) | D5<br>(mm) | H1<br>(mm) | H3<br>(mm) | AĞIRLIK<br>Weight (kg) |
|-------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------------------|
| SK15412-1,6 | 1.6               | 68         | 104        | 25         | 38         | 27         | 32         | 30         | 1.05                   |
| SK15412-2,5 | 2.5               | 85         | 132        | 28         | 43         | 32         | 43         | 40         | 2.00                   |
| SK15412-4   | 4                 | 93         | 145        | 35         | 60         | 37         | 47         | 44         | 3.00                   |
| SK15412-5   | 5                 | 102        | 158        | 33         | 69         | 42         | 52         | 47         | 3.90                   |
| SK15412-6   | 6                 | 127        | 189        | 40         | 79         | 47         | 57         | 52         | 6.50                   |
| SK15412-8   | 8                 | 142        | 210        | 44         | 89         | 50         | 63         | 58         | 8.90                   |
| SK15412-10  | 10                | 163        | 235        | 45         | 99         | 55         | 72         | 66         | 13.40                  |
| SK15412-12  | 12                | 180        | 268        | 53         | 110        | 63         | 86         | 79         | 19.50                  |
| SK15412-16  | 16                | 197        | 285        | 75         | 120        | 74         | 98         | 91         | 26.20                  |
| SK15412-20  | 20                | 207        | 302        | 74         | 131        | 85         | 97         | 90         | 29.00                  |
| SK15412-25  | 25                | 220        | 318        | 74         | 140        | 95         | 109        | 101        | 38.00                  |
| SK15412-32  | 32                | 260        | 378        | 113        | 160        | 100        | 115        | 106        | 55.00                  |
| SK15412-40  | 40                | 290        | 425        | 115        | 185        | 115        | 135        | 125        | 85.00                  |
| SK15412-50  | 50                | 340        | 475        | 130        | 225        | 130        | 150        | 140        | 125.00                 |



## ► GÜVENLİK MANDALI SAFETY LATCH

| KOD<br>CODE | L<br>SIZE (mm) | NR 15401<br>SIZE (mm) | NR15402<br>SIZE (mm) | DIN 319<br>SIZE (mm) | DIN 320<br>SIZE (mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) |
|-------------|----------------|-----------------------|----------------------|----------------------|----------------------|-----------|-----------|-----------|-----------|
| KS43        | 43             | 025                   |                      | 2.5 - 3.2            | 1.6-2.5              | 4         | 19        | 20        | 1.5       |
| KS53        | 53             | 05                    |                      | 5.4                  | 3.2-5.3              | 4         | 19        | 20        | 1.5       |
| KS67        | 67             | 08 - 1-1.6            |                      | 8                    | 8                    | 5         | 28        | 32        | 3         |
| KS85        | 85             | 2.5 - 4               |                      | 11.5 - 16            | 11.5                 | 6         | 35        | 42        | 3         |
| KS106       | 106            | 5                     |                      | 22                   | 16                   | 7         | 35        | 45        | 4         |
| KS120       | 120            | 6                     | 8                    |                      | 21.2                 | 7         | 38        | 50        | 4         |
| KS135       | 135            | 8-10                  | 10-12                |                      | 30                   | 9         | 48        | 55        | 4         |
| KS155       | 155            | 12                    | 16                   |                      |                      | 11        | 63        | 62        | 4         |
| KS185       | 185            | 16                    | 20                   |                      |                      | 11        | 68        | 65        | 4         |
| KS215       | 215            | 20                    | 25                   |                      |                      | 11        | 73        | 72        | 5         |
| KS230       | 230            | 25                    | 32                   |                      |                      | 13        | 85        | 91        | 5         |
| KS277       | 277            | 32-40                 | 40                   |                      |                      | 13        | 91        | 88        | 5         |
| KS330       | 330            | 50                    | 50                   |                      |                      | 18        | 116       | 113       | 5         |
| KS380       | 380            | 63                    | 80                   |                      |                      | 18        | 114       | 96        | 6         |



ŞENOL MAKİNA





ŞENOL MAKİNA

# ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES

## ► AYBOLT DIN 580 ( ERKEK ) EYE BOLT DIN 580

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(mm) | D<br>(mm) | Q<br>(mm) | H<br>(mm) | L<br>(mm) |
|-------------|----------------------|-----------|-----------|-----------|-----------|
| AY8         | M8                   | 36        | 20        | 36        | 13        |
| AY10        | M10                  | 45        | 25        | 45        | 16        |
| AY12        | M12                  | 54        | 30        | 53        | 20        |
| AY14        | M14                  | 63        | 35        | 62        | -         |
| AY16        | M16                  | 63        | 35        | 62        | 26        |
| AY18        | M18                  | 72        | 40        | 71        | -         |
| AY20        | M20                  | 72        | 40        | 71        | 30        |
| AY22        | M22                  | 81        | 45        | 80.5      | -         |
| AY24        | M24                  | 90        | 50        | 90        | 36        |
| AY27        | M27                  | 96        | 53        | 97        | -         |
| AY30        | M30                  | 108       | 60        | 109       | 42        |
| AY36        | M36                  | 126       | 70        | 128       | -         |
| AY42        | M42                  | 144       | 80        | 147       | -         |
| AY48        | M48                  | 166       | 90        | 168       | -         |



## ► AYBOLT DIN 582 ( Dişi ) EYE NUT DIN 582

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(mm) | D<br>(mm) | Q<br>(mm) | H<br>(mm) |
|-------------|----------------------|-----------|-----------|-----------|
| AY6         | M6                   | 36        | 20        | 36        |
| AY8         | M8                   | 36        | 20        | 36        |
| AY10        | M10                  | 45        | 25        | 45        |
| AY12        | M12                  | 54        | 30        | 53        |
| AY14        | M14                  | 63        | 35        | 62        |
| AY16        | M16                  | 63        | 35        | 62        |
| AY18        | M18                  | 72        | 40        | 71        |
| AY20        | M20                  | 72        | 40        | 71        |
| AY22        | M22                  | 81        | 45        | 80.5      |
| AY24        | M24                  | 90        | 50        | 90        |
| AY27        | M27                  | 96        | 53        | 97        |
| AY30        | M30                  | 108       | 60        | 109       |
| AY36        | M36                  | 126       | 70        | 128       |
| AY42        | M42                  | 144       | 80        | 147       |
| AY48        | M48                  | 166       | 90        | 168       |



## ► GERDİRME TURNBUCKLE

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(mm) | L<br>(mm) | L1<br>(mm) | D<br>(mm) |
|-------------|----------------------|-----------|------------|-----------|
| Ç6          | 6                    | 100       | 48         | M6        |
| Ç8          | 8                    | 125       | 58         | M8        |
| Ç10         | 10                   | 150       | 70         | M10       |
| Ç12         | 12                   | 200       | 95         | M12       |
| Ç16         | 16                   | 250       | 120        | M16       |
| Ç18         | 18                   | 280       | 130        | M18       |
| Ç20         | 20                   | 280       | 130        | M20       |
| Ç22         | 22                   | 330       | 165        | M22       |
| Ç24         | 24                   | 350       | 190        | M24       |



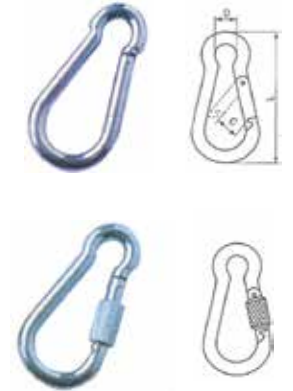
## ► ÇELİK HALAT KLEMENSİ DIN 741 WIRE ROPE CLIPS DIN 741

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(mm) | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | F<br>(mm) | G<br>(mm) |
|-------------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 741K3       | 3                    | 21        | 10        | 10        | 4         | 9         | 12        | 16.60     |
| 741K5       | 5                    | 23        | 10        | 11        | 5         | 11        | 13        | 19.95     |
| 741K6.5     | 6.5                  | 26        | 11        | 12        | 5         | 13        | 15        | 23.65     |
| 741K8       | 8                    | 30        | 15        | 14        | 6         | 16        | 19        | 28.85     |
| 741K10      | 10                   | 34        | 17        | 18        | 8         | 19        | 22        | 35.00     |
| 741K12      | 12                   | 36        | 18        | 19        | 8         | 20        | 22        | 37.00     |
| 741K13      | 13                   | 40        | 21        | 23        | 10        | 24        | 30        | 46.24     |
| 741K15      | 15                   | 44        | 22        | 23        | 10        | 25        | 30        | 48.24     |
| 741K16      | 16                   | 50        | 26        | 26        | 12        | 29        | 33        | 52.50     |
| 741K20      | 20                   | 54        | 30        | 29        | 12        | 32        | 38        | 64.50     |
| 741K22      | 22                   | 61        | 34        | 33        | 14        | 37        | 44        | 72.50     |
| 741K25      | 25                   | 65        | 37        | 35        | 14        | 41        | 45        | 82.50     |
| 741K28      | 28                   | 74        | 43        | 37        | 16        | 48        | 50        | 95.60     |
| 741K32      | 32                   | 80        | 50        | 42        | 16        | 52        | 55        | 105.60    |
| 741K40      | 40                   | 88        | 55        | 45        | 16        | 58        | 60        | 125.60    |



## ► KARABİNA DIN 5299 SNAP HOOK DIN 5299

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(mm) | L<br>(mm) | D<br>(mm) | C<br>(mm) |
|-------------|----------------------|-----------|-----------|-----------|
| DK4         | 4                    | 40        | 7         | 7         |
| DK5         | 5                    | 50        | 8         | 7         |
| DK6         | 6                    | 60        | 9         | 8         |
| DK8         | 8                    | 80        | 12        | 9         |
| DK10        | 10                   | 100       | 15        | 11        |
| DK11        | 11                   | 120       | 18        | 16        |
| DK12        | 12                   | 140       | 20        | 19        |
| DK14        | 14                   | 180       | 22        | 35        |



# ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES



ŞENOL MAKİNA

## ► AMERİKAN TİP GERDİRME TURNBUCKLE AMERICAN TYPE

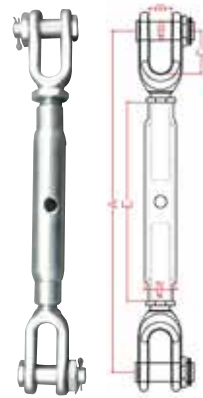


| KOD<br>CODE | ÖLÇÜ x<br>GÖVDE BOYU<br>SIZE x BODY<br>LENGTH<br>(inch) | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | F<br>(mm) | L<br>(mm) | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton)<br>CATAL + CATAL<br>FORK + FORK |
|-------------|---------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------------------------------------------------------|
| AG12/6      | 1/2x6                                                   | 190       | 152       | 147       | 9.6       | 27        | 16        | 294       | 1000                                                               |
| AG12/9      | 1/2x9                                                   | 266       | 228       | 187       | 9.6       | 27        | 16        | 370       | 1000                                                               |
| AG16/9      | 5/8x9                                                   | 276       | 228       | 201       | 12        | 33        | 19        | 405       | 1590                                                               |
| AG16/12     | 5/8x12                                                  | 352       | 304       | 236       | 12        | 33        | 19        | 481       | 1590                                                               |
| AG20/9      | 3/4x9                                                   | 287       | 228       | 213       | 16        | 38        | 23        | 435       | 2360                                                               |
| AG20/12     | 3/4x12                                                  | 363       | 304       | 248       | 16        | 38        | 23        | 511       | 2360                                                               |
| AG22/12     | 7/8x12                                                  | 372       | 304       | 266       | 19        | 44        | 28        | 545       | 3270                                                               |
| AG26/12     | 1x12                                                    | 381       | 304       | 286       | 22        | 52        | 30        | 580       | 4540                                                               |
| AG26/18     | 1x18                                                    | 533       | 457       | 366       | 22        | 52        | 30        | 732       | 4540                                                               |
| AG32/18     | 1 1/4x18                                                | 540       | 457       | 380       | 26        | 71        | 44        | 760       | 6890                                                               |
| AG32/24     | 1 1/4x24                                                | 692       | 610       | 479       | 26        | 71        | 44        | 958       | 6890                                                               |
| AG38/18     | 1 1/2x18                                                | 550       | 457       | 430       | 35        | 71        | 52        | 860       | 9710                                                               |
| AG38/24     | 1 1/2x24                                                | 703       | 610       | 496       | 35        | 71        | 52        | 992       | 9710                                                               |
| AG45/24     | 1 3/4x24                                                | 720       | 610       | 500       | 44.5      | 86        | 60        | 1000      | 12700                                                              |
| AG50/24     | 2x24                                                    | 735       | 610       | 540       | 50.5      | 95        | 63        | 1090      | 16780                                                              |
| AG64/24     | 2 1/2x24                                                | 800       | 610       | 580       | 64        | 113       | 73        | 1180      | 27220                                                              |

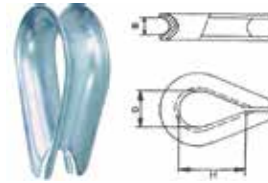
Malzeme: Dövme Çelik Material: Forged Steel

## ► BORULU LİFTİN RIGGING SCREW

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(mm) | A<br>(mm) | B<br>(mm) | C<br>(mm) | D1<br>(mm) | D2<br>(mm) | E<br>(mm) | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) |
|-------------|----------------------|-----------|-----------|-----------|------------|------------|-----------|------------------------------------|
| Ç18B        | M18                  | 305       | 22        | 45        | 18         | 32         | 163       | 3                                  |
| Ç22B        | M22                  | 370       | 26        | 42        | 22         | 35         | 205       | 5                                  |
| Ç27B        | M27                  | 450       | 28        | 50        | 25         | 45         | 255       | 8                                  |
| Ç33B        | M33                  | 525       | 32        | 65        | 30         | 52         | 300       | 10                                 |
| Ç39B        | M39                  | 580       | 40        | 80        | 33         | 60         | 350       | 12,5                               |
| Ç42B        | M42                  | 750       | 50        | 70        | 42         | 68         | 440       | 15                                 |
| Ç50B        | M50                  | 930       | 55        | 85        | 50         | 88         | 570       | 25                                 |
| Ç60B        | M60                  | 1050      | 67        | 145       | 60         | 100        | 620       | 35                                 |



Malzeme: Dövme Çelik Material: Forged Steel



## ► RADANSA DIN 6899 THIMBLE DIN 6899

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(mm) | B<br>(mm) | H<br>(mm) | D<br>(mm) |
|-------------|----------------------|-----------|-----------|-----------|
| R6          | 6                    | 6         | 25        | 16        |
| R8          | 8                    | 8         | 32        | 20        |
| R10         | 10                   | 10        | 38        | 24        |
| R12         | 12                   | 12        | 45        | 28        |
| R14         | 14                   | 14        | 51        | 32        |
| R16         | 16                   | 16        | 58        | 36        |
| R18         | 18                   | 18        | 64        | 40        |
| R20         | 20                   | 20        | 72        | 45        |
| R22         | 22                   | 22        | 80        | 50        |
| R26         | 26                   | 26        | 99        | 62        |
| R28         | 28                   | 28        | 112       | 70        |
| R32         | 32                   | 32        | 128       | 80        |
| R36         | 36                   | 36        | 160       | 100       |
| R40         | 40                   | 40        | 184       | 115       |
| R45         | 45                   | 45        | 240       | 150       |
| R50         | 50                   | 50        | 245       | 160       |
| R56         | 60                   | 60        | 260       | 170       |
| R64         | 65                   | 65        | 300       | 180       |
| R80         | 75                   | 75        | 330       | 200       |

## ► DOLU RADANSA DIN 3091 SOLID THIMBLE DIN 3091

| KOD<br>CODE | HALAT<br>ÇAPI<br>ROPE<br>DIA<br>(mm) | A<br>(mm) | B<br>(mm) | D1<br>(mm) | MAX<br>D1<br>(mm) | C<br>(mm) | L<br>(mm) | BİRİM<br>AĞIRLIĞI<br>WEIGHT<br>(kg) |
|-------------|--------------------------------------|-----------|-----------|------------|-------------------|-----------|-----------|-------------------------------------|
| DR8         | 8                                    | 9         | 15        | 14         | 20                | 40        | 66        | 0.181                               |
| DR10        | 10                                   | 11        | 17.5      | 18         | 25                | 50        | 82        | 0.318                               |
| DR12        | 12                                   | 13        | 20        | 21         | 30                | 60        | 98        | 0.515                               |
| DR14        | 14                                   | 16        | 23.5      | 25         | 35                | 70        | 114       | 0.799                               |
| DR16        | 16                                   | 18        | 26        | 28         | 40                | 80        | 130       | 0.895                               |
| DR18        | 18                                   | 20        | 28.5      | 31         | 45                | 90        | 145       | 1.211                               |
| DR20        | 20                                   | 22        | 31        | 35         | 50                | 100       | 161       | 1.61                                |
| DR22        | 22                                   | 24        | 33.5      | 38         | 55                | 11        | 177       | 2.11                                |
| DR24        | 24                                   | 26        | 36        | 41         | 60                | 120       | 193       | 2.71                                |
| DR26        | 26                                   | 29        | 39.5      | 44         | 65                | 130       | 209       | 3.55                                |
| DR28        | 28                                   | 31        | 42        | 47         | 70                | 140       | 224       | 4.2                                 |
| DR32        | 32                                   | 35        | 47        | 53         | 80                | 160       | 256       | 6.3                                 |
| DR36        | 36                                   | 40        | 53        | 59         | 90                | 180       | 288       | 8.84                                |
| DR40        | 40                                   | 44        | 58        | 65         | 100               | 200       | 320       | 11.0                                |
| DR44        | 44                                   | 48        | 63        | 70         | 110               | 220       | 354       | 15.0                                |
| DR48        | 48                                   | 53        | 69        | 76         | 120               | 240       | 389       | 20.0                                |
| DR52        | 52                                   | 57        | 74        | 81         | 130               | 260       | 416       | 25.0                                |
| DR56        | 56                                   | 62        | 80        | 86         | 140               | 280       | 448       | 32.0                                |
| DR64        | 64                                   | 70        | 90        | 95         | 160               | 320       | 512       | 46.0                                |
| DR72        | 72                                   | 79        | 101       | 104        | 180               | 360       | 576       | 66.0                                |
| DR80        | 80                                   | 88        | 112       | 112        | 200               | 400       | 640       | 90.0                                |





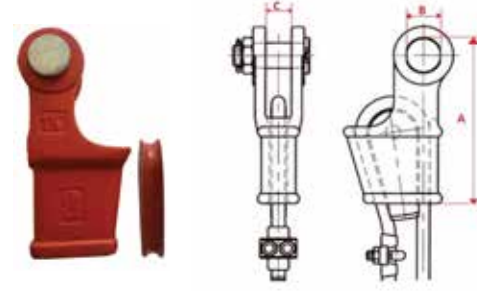
ŞENOL MAKİNA



## ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES

### ► KAMALI HALAT SOKETİ WEDGE SOCKET

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(inch) | HALAT ÇAPI<br>ROPE DIA<br>(mm) | AĞIRLIK<br>WEIGHT (kg) | A<br>(mm) | B<br>(mm) | C<br>(mm) |
|-------------|------------------------|--------------------------------|------------------------|-----------|-----------|-----------|
| KHS11-13    | 1/2                    | 10-12                          | 2.79                   | 173       | 25        | 25        |
| KHS14-16    | 5/8                    | 14-16                          | 4.40                   | 190       | 30        | 32        |
| KHS18-19    | 3/4                    | 18-20                          | 6.58                   | 248       | 35        | 38        |
| KHS20-22    | 7/8                    | 22                             | 9.75                   | 283       | 40        | 44.5      |
| KHS24-26    | 1                      | 24-26                          | 13.9                   | 324       | 45        | 51        |
| KHS28       | 1 1/8                  | 28                             | 20.5                   | 365       | 50        | 57        |
| KHS30-32    | 1 1/4                  | 30-32                          | 26.1                   | 406       | 55        | 63.5      |
| KHS34-36    | 1 3/8                  | 34-36                          | 37.0                   | 432       | 60        | 68        |



### ► ZİNCİR KANCASI CHAIN GRAB HOOK

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(Inch) | ÖLÇÜ<br>SIZE<br>(mm) | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(LBS)<br>H-330 | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(LBS)<br>A-330 | B<br>(mm) | E<br>(mm) | P<br>(mm) | R<br>(mm) |
|-------------|------------------------|----------------------|---------------------------------------------|---------------------------------------------|-----------|-----------|-----------|-----------|
| ZKA6        | 1/4                    | 6                    | 2600                                        | 3600                                        | 9.14      | 10.16     | 9.65      | 50.04     |
| ZKA8        | 5/16                   | 8                    | 3900                                        | 5400                                        | 10.16     | 11.18     | 11.18     | 57.40     |
| ZKA10       | 3/8                    | 10                   | 5400                                        | 7500                                        | 12.19     | 12.70     | 11.94     | 66.80     |
| ZKA12       | 1/2                    | 12                   | 9200                                        | 12750                                       | 19.05     | 16.76     | 16.00     | 81.03     |



### ► SAPAN KANCASI CHAIN SLING HOOK

| KOD<br>CODE | ÖLÇÜ<br>SIZE<br>(Inch) | ÖLÇÜ<br>SIZE<br>(mm) | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(LBS)<br>H-330 | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(LBS)<br>A-330 | B<br>(mm) | E<br>(mm) | P<br>(mm) | R<br>(mm) |
|-------------|------------------------|----------------------|---------------------------------------------|---------------------------------------------|-----------|-----------|-----------|-----------|
| SKA6        | 1/4                    | 6                    | 2600                                        | 3600                                        | 9.14      | 10.16     | 9.65      | 50.04     |
| SKA8        | 5/16                   | 8                    | 3900                                        | 5400                                        | 10.16     | 11.18     | 11.18     | 57.40     |
| SKA10       | 3/8                    | 10                   | 5400                                        | 7500                                        | 12.19     | 12.70     | 11.94     | 66.80     |
| SKA12       | 1/2                    | 12                   | 9200                                        | 12750                                       | 19.05     | 16.76     | 16.00     | 81.03     |



### ► HALAT ÇAPINA GÖRE KULLANILACAK TUTUYA MİKTARI WIRELOCK REQUIRED ACC. TO ROPE DIAMETER

| ÇELİK HALAT<br>ÖLÇÜSÜ (mm)<br>WIRE ROPE<br>SIZE | TUTUYA<br>MİKTARI (cc)<br>WIRELOCK<br>REQUIRED |
|-------------------------------------------------|------------------------------------------------|
| 8                                               | 17                                             |
| 9-10                                            | 17                                             |
| 11                                              | 35                                             |
| 13                                              | 35                                             |
| 14                                              | 52                                             |
| 16                                              | 52                                             |
| 20                                              | 86                                             |
| 26                                              | 160                                            |



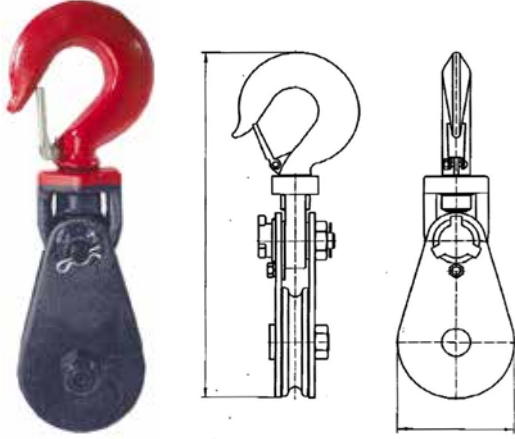
| ÇELİK HALAT<br>ÖLÇÜSÜ (mm)<br>WIRE ROPE<br>SIZE | TUTUYA<br>MİKTARI (cc)<br>WIRELOCK<br>REQUIRED |
|-------------------------------------------------|------------------------------------------------|
| 28                                              | 210                                            |
| 32                                              | 350                                            |
| 36                                              | 350                                            |
| 40                                              | 420                                            |
| 42                                              | 495                                            |
| 44                                              | 700                                            |
| 51                                              | 1265                                           |
| 54                                              | 1265                                           |



| ÇELİK HALAT<br>ÖLÇÜSÜ (mm)<br>WIRE ROPE<br>SIZE | TUTUYA<br>MİKTARI (cc)<br>WIRELOCK<br>REQUIRED |
|-------------------------------------------------|------------------------------------------------|
| 56                                              | 1410                                           |
| 60                                              | 1410                                           |
| 64                                              | 1830                                           |
| 67                                              | 1830                                           |
| 70                                              | 2250                                           |
| 82                                              | 3795                                           |
| 88                                              | 4920                                           |
| 94                                              | 5980                                           |



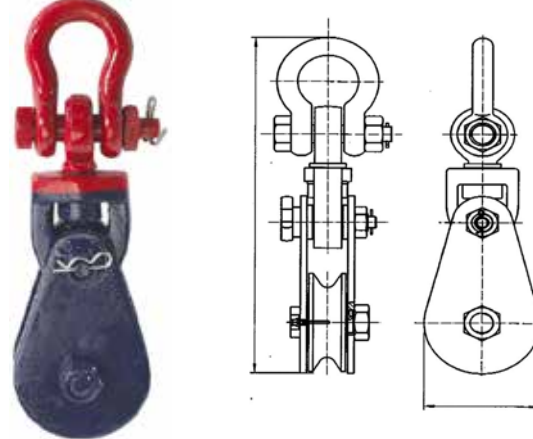
## HALAT MAKARALARI ROPE PULLEYS



### ► AĞIR TİP MAKARALAR HEAVY IND. ROPE BLOCKS SNLBLOCKS ROPE BLOCKS

| KOD<br>CODE | GÖBEK TİPİ<br>BEARING<br>TYPE | MAKARA<br>ÇAPI<br>SHEAVE DIA. | HALAT ÇAPI<br>WIRE ROPE<br>DIA.<br>(mm) | SWL<br>(TON) |
|-------------|-------------------------------|-------------------------------|-----------------------------------------|--------------|
| MA761       | BB<br>RB                      | 76                            | 8-10                                    | 2            |
| MA1141      |                               | 114                           | 10-13                                   | 4            |
| MA1521      |                               | 152                           | 16-19                                   | 8            |
| MA2031      |                               | 203                           | 16-19                                   | 8            |
| MA2541      |                               | 254                           | 16-19                                   | 8            |
| MA3051      |                               | 305                           | 16-19                                   | 8            |
| MA3561      |                               | 356                           | 16-19                                   | 8            |
| MA4061      |                               | 406                           | 19-22                                   | 15           |
| MA4571      |                               | 457                           | 22-26                                   | 15           |

\*BRONZ BURÇLU VEYA RULMANLI  
BRONZE BUSHING OR BEARING TYPE



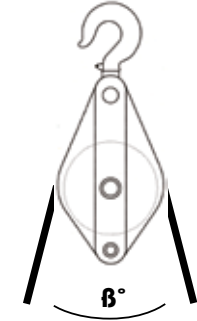
### ► AĞIR TİP MAKARALAR HEAVY IND. ROPE BLOCKS SNLBLOCKS PLUS ROPE BLOCKS

| KOD<br>CODE | GÖBEK TİPİ<br>BEARING<br>TYPE | MAKARA<br>ÇAPI<br>SHEAVE DIA. | HALAT ÇAPI<br>WIRE ROPE<br>DIA.<br>(mm) | SWL<br>(TON) |
|-------------|-------------------------------|-------------------------------|-----------------------------------------|--------------|
| MA2031P     | BB                            | 203                           | 26-28                                   | 20           |
| MA2541P     |                               | 254                           | 26-28                                   | 20           |
| MA3051P     |                               | 305                           | 26-28                                   | 20           |
| MA3561P     |                               | 356                           | 26-28                                   | 20           |
| MA4571P     |                               | 457                           | 26-28                                   | 25           |
| MA5081P     |                               | 508                           | 28-52                                   | 30           |
| MA2031P     |                               | 610                           | 28-52                                   | 30           |

\*BRONZ BURÇLU  
BRONZE BUSHING



ŞENOL MAKİNA



| ÇALIŞMA<br>AÇISI<br>WORKING<br>ANGLE | AÇI<br>FAKTÖRÜ<br>ANGLE<br>FACTOR |
|--------------------------------------|-----------------------------------|
| 0°                                   | 2                                 |
| 10°                                  | 1,99                              |
| 20°                                  | 1,97                              |
| 30°                                  | 1,93                              |
| 40°                                  | 1,87                              |
| 45°                                  | 1,84                              |
| 50°                                  | 1,81                              |
| 60°                                  | 1,73                              |
| 70°                                  | 1,64                              |
| 80°                                  | 1,53                              |
| 90°                                  | 1,41                              |
| 100°                                 | 1,29                              |
| 110°                                 | 1,15                              |
| 120°                                 | 1                                 |
| 130°                                 | 0,84                              |
| 140°                                 | 0,68                              |
| 150°                                 | 0,52                              |
| 160°                                 | 0,35                              |
| 170°                                 | 0,17                              |
| 180°                                 | 0                                 |

\* KANCALI VEYA KİLİTLİ İMALAT SEÇENEĞİ. HOOK OR SHACKLE TYPE OPTIONS.

\* MİNİMUM KOPMA TONAJI, GÜVENLİ ÇALIŞMA TONAJININ 4 KATIDIR. MINIMUM ULTIMATE LOAD IS 4 TIMES THE WORKING LOAD LIMIT.

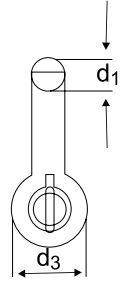


ŞENOL MAKİNA

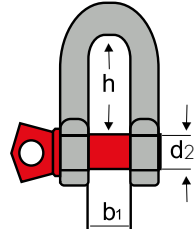


## ÇELİK HALAT ve ZİNCİR BAĞLANTI ELEMANLARI CONNECTION ACCESSORIES

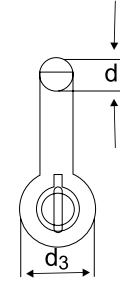
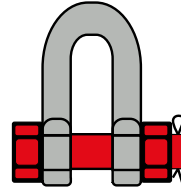
► YÜKSEK TONAJLI KİLİTLER HIGH TENSILE SHACKLES



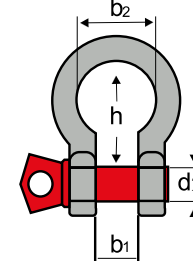
G210



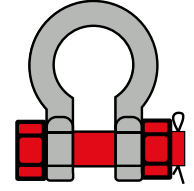
G2150



G209

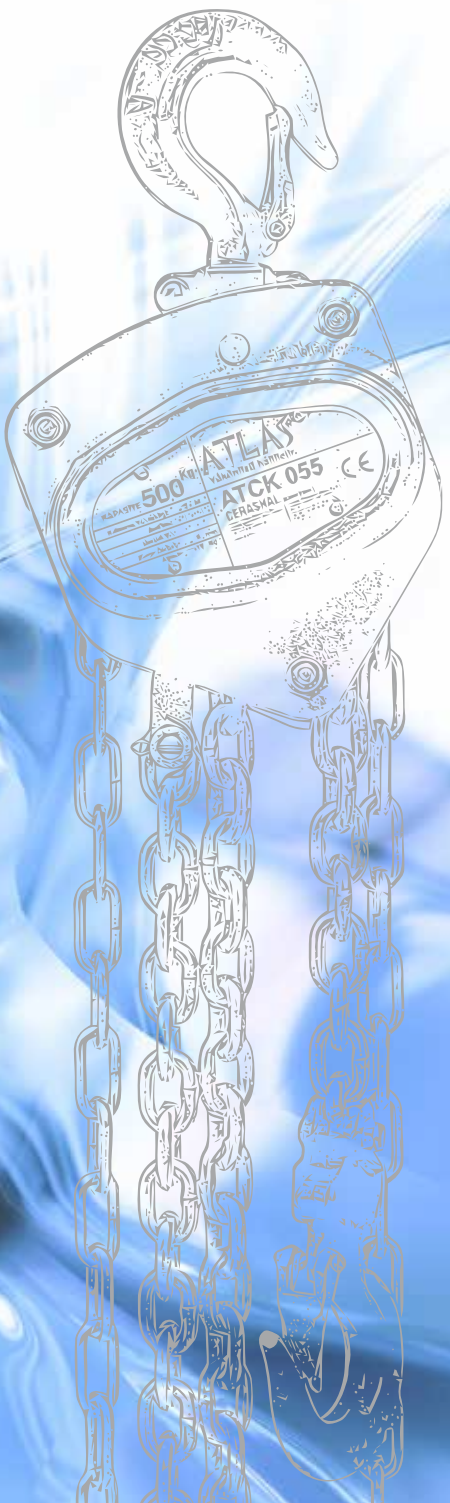


G2130



| NOMİNAL<br>ÖLÇÜ<br>SIZE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | d1<br>(mm) | d2<br>(mm) | d3<br>(mm) | b1<br>(mm) | h<br>(mm) | BİRİM<br>AĞIRLIĞI<br>WEIGHT<br>(kg)<br>G210 | BİRİM<br>AĞIRLIĞI<br>WEIGHT<br>(kg)<br>G2150 |
|-------------------------|------------------------------------|------------|------------|------------|------------|-----------|---------------------------------------------|----------------------------------------------|
| 5/16                    | 3/4                                | 8          | 9,65       | 19,1       | 13,5       | 26,2      | 0,08                                        | 0,1                                          |
| 3/8                     | 1                                  | 10         | 11,2       | 23,1       | 16,8       | 31,8      | 0,13                                        | 0,15                                         |
| 1/2                     | 2                                  | 12,7       | 16         | 30,2       | 20,6       | 41,4      | 0,27                                        | 0,34                                         |
| 5/8                     | 3,25                               | 17         | 20         | 39         | 27         | 54        | 0,6                                         | 0,69                                         |
| 3/4                     | 4,75                               | 20         | 22         | 45         | 33         | 66        | 1                                           | 1,14                                         |
| 7/8                     | 6,50                               | 22,4       | 25         | 50         | 36,5       | 77        | 1,54                                        | 1,65                                         |
| 1                       | 8,50                               | 26         | 30         | 58         | 42         | 92        | 2,31                                        | 2,56                                         |
| 1 1/8                   | 9,50                               | 30         | 33,7       | 68         | 45         | 95        | 3,10                                        | 3,47                                         |
| 1 1/4                   | 12                                 | 33         | 36         | 76         | 51,5       | 104       | 4,40                                        | 4,89                                         |
| 1 3/8                   | 13,5                               | 38         | 39         | 85         | 56         | 112       | 5,78                                        | 6,38                                         |
| 1 1/2                   | 17                                 | 40         | 41         | 93         | 60         | 131       | 7,69                                        | 8,58                                         |
| 1 3/4                   | 25                                 | 46         | 52         | 106        | 76         | 156       | 13,28                                       | 14,87                                        |
| 2                       | 35                                 | 54         | 60         | 125        | 84         | 171       | 19,75                                       | 20,98                                        |
| 2 1/2                   | 55                                 | 70         | 70         | 150        | 105        | 210       | 39,30                                       | 40,50                                        |
| 3                       | 85                                 | 80         | 90         | 170        | 130        | 230       | 58,10                                       | 59                                           |
| 3 1/2                   | 120                                | 95         | 110        | 210        | 140        | 250       | 99,40                                       | 101                                          |
| 4                       | 150                                | 108        | 125        | 240        | 150        | 280       | 129                                         | 129                                          |

| NOMİNAL<br>ÖLÇÜ<br>SIZE | ÇALIŞMA<br>YÜKÜ<br>W.L.L.<br>(Ton) | d1<br>(mm) | d2<br>(mm) | d3<br>(mm) | b1<br>(mm) | b2<br>(mm) | h<br>(mm) | BİRİM<br>AĞIRLIĞI<br>WEIGHT<br>(kg)<br>G209 | BİRİM<br>AĞIRLIĞI<br>WEIGHT<br>(kg)<br>G2130 |
|-------------------------|------------------------------------|------------|------------|------------|------------|------------|-----------|---------------------------------------------|----------------------------------------------|
| 5/16                    | 3/4                                | 8          | 9,65       | 19,1       | 13,5       | 21,3       | 31        | 0,09                                        | 0,1                                          |
| 3/8                     | 1                                  | 10         | 11,2       | 23,1       | 16,8       | 26,2       | 36,6      | 0,14                                        | 0,15                                         |
| 1/2                     | 2                                  | 12,7       | 16         | 30,2       | 20,6       | 33,3       | 47,8      | 0,33                                        | 0,36                                         |
| 5/8                     | 3,25                               | 17         | 20         | 39         | 27         | 39         | 59        | 0,71                                        | 0,8                                          |
| 3/4                     | 4,75                               | 20,8       | 21,6       | 47         | 31,5       | 49         | 70        | 1,14                                        | 1,29                                         |
| 7/8                     | 6,50                               | 22,4       | 25         | 53         | 35         | 56         | 84        | 1,72                                        | 1,81                                         |
| 1                       | 8,50                               | 27         | 30         | 61         | 42         | 67         | 95        | 2,45                                        | 2,74                                         |
| 1 1/8                   | 9,50                               | 29         | 32,7       | 67         | 46,5       | 74         | 111       | 3,49                                        | 3,88                                         |
| 1 1/4                   | 12                                 | 33         | 36         | 74         | 51         | 80         | 121       | 4,81                                        | 5,34                                         |
| 1 3/8                   | 13,5                               | 37         | 39         | 82         | 58         | 92         | 139       | 6,28                                        | 6,78                                         |
| 1 1/2                   | 17                                 | 40         | 41,2       | 90         | 60         | 97         | 152       | 8,31                                        | 9,12                                         |
| 1 3/4                   | 25                                 | 48         | 52         | 107        | 76         | 127        | 190       | 15,2                                        | 16,33                                        |
| 2                       | 35                                 | 54         | 60         | 122        | 84         | 146        | 202       | 21,47                                       | 22,52                                        |
| 2 1/2                   | 55                                 | 70         | 70         | 150        | 105        | 185        | 267       | 44,8                                        | 45,9                                         |
| 3                       | 85                                 | 80         | 90         | 170        | 130        | 200        | 330       | 77,5                                        | 78                                           |
| 3 1/2                   | 120                                | 95         | 110        | 210        | 140        | 230        | 360       | 131,3                                       | 132                                          |
| 4                       | 150                                | 108        | 125        | 240        | 150        | 260        | 380       | 157,8                                       | 160                                          |



**ATLAS<sup>PRO</sup> III**  
*Gücün Kuvveti, Kuvvetin Gücü!*

**ATLAS YÜK GİRDİRME VE KALDIRMA ÜRÜNLERİ**  
ATLAS LIFTING AND PULLING EQUIPMENTS



ŞENOL MAKİNA

## ATLAS YÜK KALDIRMA ve GİRDİRME ÜRÜNLERİ ATLAS LIFTING AND PULLING EQUIPMENTS

### ► CERASKAL HS TİP CHAIN BLOCK HS TYPES

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | STANDART<br>ZİNCİR BOYU<br>CHAIN<br>LENGHT<br>(METRE) | TEST<br>YÜKÜ<br>TESTING<br>LOAD | ZİNCİR<br>DONAMIM<br>SAYISI<br>REEVING | MİNİMUM<br>YÜKSEKLİK<br>MIN.<br>HEIGHT<br>(mm) | YÜK ZİNCİR<br>ÖLÇÜSÜ<br>LOAD<br>CHAIN<br>DIAMETER | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|-------------------------------------------------------|---------------------------------|----------------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------|
| ATCY 053    | 0.5                           | 3                                                     | 0.75                            | 1                                      | 240                                            | 6                                                 | 10                        |
| ATCY 055    | 0.5                           | 5                                                     | 0.75                            | 1                                      | 240                                            | 6                                                 | 12.5                      |
| ATCY 013    | 1                             | 3                                                     | 1.5                             | 1                                      | 270                                            | 6                                                 | 11                        |
| ATCY 015    | 1                             | 5                                                     | 1.5                             | 1                                      | 270                                            | 6                                                 | 14.5                      |
| ATCY 23     | 2                             | 3                                                     | 3                               | 2                                      | 380                                            | 6                                                 | 15                        |
| ATCY 25     | 2                             | 5                                                     | 3                               | 2                                      | 380                                            | 6                                                 | 20                        |
| ATCY 33     | 3                             | 3                                                     | 4.5                             | 2                                      | 470                                            | 8                                                 | 24                        |
| ATCY 35     | 3                             | 5                                                     | 4.5                             | 2                                      | 470                                            | 8                                                 | 31.5                      |

### ► CERASKAL HS-C TİP CHAIN BLOCK HS-C TYPES

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | STANDART<br>ZİNCİR BOYU<br>CHAIN<br>LENGHT<br>(METRE) | TEST<br>YÜKÜ<br>TESTING<br>LOAD | ZİNCİR<br>DONAMIM<br>SAYISI<br>REEVING | MİNİMUM<br>YÜKSEKLİK<br>MIN.<br>HEIGHT<br>(mm) | YÜK ZİNCİR<br>ÖLÇÜSÜ<br>LOAD<br>CHAIN<br>DIAMETER | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|-------------------------------------------------------|---------------------------------|----------------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------|
| ATCK 053    | 0.5                           | 3                                                     | 0.62                            | 1                                      | 240                                            | 6                                                 | 9,7                       |
| ATCK 055    | 0.5                           | 5                                                     | 0.62                            | 1                                      | 240                                            | 6                                                 | 12.9                      |
| ATCK 13     | 1                             | 3                                                     | 1.25                            | 1                                      | 270                                            | 6                                                 | 11.8                      |
| ATCK 15     | 1                             | 5                                                     | 1.25                            | 1                                      | 270                                            | 6                                                 | 15                        |
| ATCK 23     | 2                             | 3                                                     | 2,5                             | 1                                      | 380                                            | 8                                                 | 18                        |
| ATCK 25     | 2                             | 5                                                     | 2,5                             | 1                                      | 380                                            | 8                                                 | 22,4                      |
| ATCK 33     | 3                             | 3                                                     | 3.75                            | 2                                      | 470                                            | 8                                                 | 24,5                      |
| ATCK 35     | 3                             | 5                                                     | 3.75                            | 2                                      | 470                                            | 8                                                 | 31.6                      |
| ATCK 53     | 5                             | 3                                                     | 6.2                             | 2                                      | 600                                            | 10                                                | 39.5                      |
| ATCK 55     | 5                             | 5                                                     | 6.2                             | 2                                      | 600                                            | 10                                                | 49.8                      |
| ATCK 105    | 10                            | 5                                                     | 12.5                            | 4                                      | 700                                            | 10                                                | 100                       |
| ATCK 205    | 20                            | 5                                                     | 24                              | 8                                      | 1000                                           | 10                                                | 202                       |

### ► CERASKAL OVERLOAD TİP (YÜK EMNİYETLİ) CHAIN BLOCK OVERLOAD TYPES

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | STANDART<br>ZİNCİR BOYU<br>CHAIN<br>LENGHT<br>(METRE) | TEST<br>YÜKÜ<br>TESTING<br>LOAD | ZİNCİR<br>DONAMIM<br>SAYISI<br>REEVING | MİNİMUM<br>YÜKSEKLİK<br>MIN.<br>HEIGHT<br>(mm) | YÜK ZİNCİR<br>ÖLÇÜSÜ<br>LOAD<br>CHAIN<br>DIAMETER | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|-------------------------------------------------------|---------------------------------|----------------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------|
| ATSOC 15    | 1                             | 5                                                     | 1.25                            | 1                                      | 295                                            | 6                                                 | 14,2                      |
| ATSOC 1-12  | 1                             | 12                                                    | 1.25                            | 1                                      | 295                                            | 6                                                 | 25,1                      |
| ATSOC 25    | 2                             | 5                                                     | 2,5                             | 1                                      | 375                                            | 8                                                 | 22,8                      |
| ATSOC 2-12  | 2                             | 12                                                    | 2,5                             | 1                                      | 375                                            | 8                                                 | 38                        |
| ATSOC 35    | 3                             | 5                                                     | 3.75                            | 2                                      | 510                                            | 7.1                                               | 31                        |
| ATSOC 3-12  | 3                             | 12                                                    | 3.75                            | 2                                      | 510                                            | 7.1                                               | 52                        |
| ATSOC 55    | 5                             | 5                                                     | 6.2                             | 2                                      | 600                                            | 9                                                 | 43,6                      |
| ATSOC 5-12  | 5                             | 12                                                    | 6.2                             | 2                                      | 600                                            | 9                                                 | 74,5                      |
| ATSOC 105   | 10                            | 5                                                     | 12.5                            | 4                                      | 780                                            | 9                                                 | 93                        |
| ATSOC 10-12 | 10                            | 12                                                    | 12.5                            | 4                                      | 780                                            | 9                                                 | 147                       |

### ► HUBZUG LEVER BLOCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | STANDART<br>ZİNCİR BOYU<br>CHAIN<br>LENGHT<br>(METRE) | TEST<br>YÜKÜ<br>TESTING<br>LOAD | ZİNCİR<br>DONAMIM<br>SAYISI<br>REEVING | YÜK ZİNCİR<br>ÖLÇÜSÜ<br>LOAD<br>CHAIN<br>DIAMETER | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|-------------------------------------------------------|---------------------------------|----------------------------------------|---------------------------------------------------|---------------------------|
| ATH 0.5     | 0.5                           | 1.5                                                   | 0.6                             | 1                                      | 5                                                 | 3,8                       |
| ATH 0.7     | 0.75                          | 1.5                                                   | 0.9                             | 1                                      | 6                                                 | 6,5                       |
| ATH 1.5     | 1.5                           | 1.5                                                   | 1.8                             | 1                                      | 8                                                 | 11,2                      |
| ATH 3       | 3                             | 1.5                                                   | 3.7                             | 1                                      | 10                                                | 18,9                      |
| ATH 6       | 6                             | 1.5                                                   | 7.5                             | 2                                      | 10                                                | 29,4                      |
| ATH 9       | 9                             | 1.5                                                   | 11                              | 3                                      | 10                                                | 41,6                      |



# ATLAS YÜK KALDIRMA ve GİRDİRME ÜRÜNLERİ ATLAS LIFTING AND PULLING EQUIPMENTS

## ► HUBZUG OVERLOAD TİP (YÜK EMNİYETLİ) LEVER BLOCK OVERLOAD TYPE

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | STANDART<br>ZİNCİR BOYU<br>CHAIN<br>LENGHT<br>(METRE) | TEST<br>YÜKÜ<br>TESTING<br>LOAD | ZİNCİR<br>DONAMIM<br>SAYISI<br>REEVING | YÜK ZİNCİR<br>ÖLÇÜSÜ<br>LOAD<br>CHAIN<br>DIAMETER | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|-------------------------------------------------------|---------------------------------|----------------------------------------|---------------------------------------------------|---------------------------|
| ATSH 1.5    | 1.5                           | 1.5                                                   | 1.8                             | 1                                      | 8                                                 | 11.6                      |
| ATSH 1.5-3  | 1.5                           | 3                                                     | 1.8                             | 1                                      | 8                                                 | 13.7                      |
| ATSH 3      | 3                             | 1.5                                                   | 3.7                             | 1                                      | 10                                                | 19.2                      |
| ATSH 3-3    | 3                             | 3                                                     | 3.7                             | 1                                      | 10                                                | 22.4                      |
| ATSH 6      | 6                             | 1.5                                                   | 7.5                             | 2                                      | 10                                                | 32                        |
| ATSH 6-3    | 6                             | 3                                                     | 7.5                             | 2                                      | 10                                                | 36                        |



## ► HUBZUG CİRCİR KOLLU LEVER HOIST GEAR HANDLE

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | STANDART<br>ZİNCİR BOYU<br>CHAIN<br>LENGHT<br>(METRE) | TEST<br>YÜKÜ<br>TESTING<br>LOAD | ZİNCİR<br>DONAMIM<br>SAYISI<br>REEVING | MİNİMUM<br>YÜKSEKLİK<br>MIN.<br>HEIGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|-------------------------------------------------------|---------------------------------|----------------------------------------|------------------------------------------------|---------------------------|
| ATHC 0.25   | 0.25                          | 1.5                                                   | 0,37                            | 1                                      | 4                                              | 2,2                       |
| ATHC 0.5    | 0.5                           | 1.5                                                   | 0,75                            | 1                                      | 4                                              | 3,1                       |
| ATHC 0.7    | 0.75                          | 1.5                                                   | 1,12                            | 1                                      | 5                                              | 4,75                      |
| ATHC 1.5    | 1.5                           | 1.5                                                   | 2,25                            | 1                                      | 7                                              | 8.5                       |
| ATHC 2.5    | 2.5                           | 1.5                                                   | 3,75                            | 1                                      | 9                                              | 14.1                      |
| ATHC 5      | 5                             | 1.5                                                   | 7,5                             | 2                                      | 9                                              | 25.5                      |



## ► DİKEY SAÇ KAPMA LIFTING CLAMP VERTICAL

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | ÇENE<br>AÇIKLIĞI<br>LOW<br>OPENING | TEST YÜKÜ<br>TESTING<br>LOAD | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------------|------------------------------|---------------------------|
| ATSK1       | 1                             | 0-20                               | 1,5                          | 5                         |
| ATSK2       | 2                             | 0-25                               | 3                            | 8                         |
| ATSK3       | 3                             | 0-30                               | 4,5                          | 15                        |
| ATSK5       | 5                             | 0-50                               | 6,75                         | 23                        |



## ► L TİPİ (YATAY) SAÇ KAPMA LIFTING CLAMP HORIZONTAL

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | ÇENE<br>AÇIKLIĞI<br>LOW<br>OPENING | TEST YÜKÜ<br>TESTING<br>LOAD | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------------|------------------------------|---------------------------|
| ATSK0.8     | 0.8                           | 0-25                               | 1.12                         | 2.5                       |
| ATSK1.6     | 1.6                           | 0-30                               | 2.25                         | 4                         |
| ATSK3.2     | 3.2                           | 0-45                               | 3.75                         | 6                         |



## ► ŞARYO CERASKAL ARABASI TROLLEY

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | TEST<br>YÜKÜ<br>TESTING<br>LOAD | ÇALIŞTIĞI<br>NPI<br>WORKING<br>NPI | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------|------------------------------------|---------------------------|
| ATŞA 05     | 0.5                           | 0,75                            | 100-140 mm                         | 4,3                       |
| ATŞA 1      | 1                             | 1,5                             | 140-180 mm                         | 7                         |
| ATŞA 2      | 2                             | 3                               | 160-200 mm                         | 10,5                      |
| ATŞA 3      | 3                             | 4,5                             | 180-240 mm                         | 15,3                      |
| ATŞA 5      | 5                             | 7,5                             | 180-240 mm                         | 21,7                      |



## ► MİNİ ELEKTRİK Lİ VİNÇ ŞARYOSU /MINI TROLLEY

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | ÇALIŞTIĞI<br>NPI<br>WORKING<br>NPI | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------------|---------------------------|
| ATVŞA       | 1                             | 80-120 mm                          | 3,4                       |



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## ATLAS YÜK KALDIRMA ve GERDİRME ÜRÜNLERİ

ATLAS LIFTING AND PULLING EQUIPMENTS

### ► UNIVERSAL MANYETİK KALDIRMA UNIVERSAL PERMANENT MAGNETIC LIFTER

| KOD<br>CODE | KAPASİTESİ<br>DÜZ/YUVARLAK MALZEME<br>CAPACITY<br>FLAT/ROUND MATERIAL<br>(Kg) | ÖLÇÜLER<br>DIMENSIONS<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------------------------------------------------------|-------------------------------|---------------------------|
| ATMK 01     | 100/50                                                                        | 92x64x72                      | 3,2                       |
| ATMK 03     | 300/150                                                                       | 166x99x108                    | 12,4                      |
| ATMK 06     | 600/300                                                                       | 228x118x123                   | 23,6                      |
| ATMK 10     | 1000/500                                                                      | 266x150x158                   | 42,8                      |
| ATMK 15     | 1500/750                                                                      | 354x168x172                   | 69                        |
| ATMK 20     | 2000/1000                                                                     | 394x196x204                   | 105                       |



### ► PEHLİVAN KRİKO MECHANICAL JACK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | KAPALI BOY<br>CLOSED<br>HEIGHT<br>(mm) | STROK<br>STROKE<br>(mm) | TESTYÜKÜ<br>TESTING<br>LOAD | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|----------------------------------------|-------------------------|-----------------------------|---------------------------|
| ATPK 3      | 3                             | 730                                    | 360                     | 3,6                         | 21,2                      |
| ATPK 5      | 5                             | 730                                    | 345                     | 6,13                        | 28,5                      |
| ATPK 10     | 10                            | 800                                    | 410                     | 12,25                       | 46,8                      |
| ATPK 16     | 16                            | 800                                    | 320                     | 19,6                        | 65                        |
| ATPK 20     | 20                            | 860                                    | 320                     | 24,5                        | 75                        |



### ► RAY KAPMA RAIL CLAMP

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | ÇENE AÇIKLIĞI<br>LOW<br>OPENING<br>(mm) | TEST<br>YÜKÜ<br>TEST<br>LOAD | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|-----------------------------------------|------------------------------|---------------------------|
| ATRK 2      | 2                             | 15-85                                   | 3                            | 6.2                       |
| ATRK 4      | 4                             | 10-95                                   | 6                            | 15                        |



### ► ŞİŞE KRİKO HYDRAULIC BOTTLE JACK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNİMUM<br>YÜKSEKLİK<br>MINIMUM<br>HEIGHT<br>(mm) | KALDIRMA<br>YÜKSEKLİĞİ<br>LIFTING<br>HEIGHT<br>(mm) | AYARLANA-<br>BİLİR<br>YÜKSEKLİK<br>ADJUSTABLE<br>HEIGHT<br>(mm) | MAKSİMUM<br>YÜKSEKLİK<br>MAXIMUM<br>HEIGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------|---------------------------|
| ATŞK 3      | 3                             | 195                                               | 125                                                 | 60                                                              | 380                                                | 3,3                       |
| ATŞK 5      | 5                             | 197                                               | 125                                                 | 60                                                              | 382                                                | 4,4                       |
| ATŞK 10     | 10                            | 205                                               | 125                                                 | 60                                                              | 390                                                | 6,0                       |
| ATŞK 15     | 15                            | 225                                               | 140                                                 | 60                                                              | 425                                                | 8,5                       |
| ATŞK 20     | 20                            | 244                                               | 145                                                 | 60                                                              | 449                                                | 11,5                      |
| ATŞK 32     | 32                            | 285                                               | 180                                                 | -                                                               | 465                                                | 17,6                      |
| ATŞK 50     | 50                            | 300                                               | 180                                                 | -                                                               | 480                                                | 33,0                      |
| ATŞK 100    | 100                           | 335                                               | 180                                                 | -                                                               | 520                                                | 78,0                      |



### ► MAKİNA KRİKOSU HYDRAULIC BOTTLE JACK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | TIRNAK<br>KALDIRMA<br>ARALIĞI<br>NAIL<br>LIFTING<br>RANGE<br>(mm) | ÜST<br>KALDIRMA<br>ARALIĞI<br>TOP<br>LIFTING<br>RANGE<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------|---------------------------|
| ATM 50      | 5                             | 25-230                                                            | 368-573                                                       | 25                        |
| ATM 100     | 10                            | 30-260                                                            | 420-650                                                       | 35                        |
| ATM 250     | 25                            | 58-273                                                            | 505-720                                                       | 109                       |



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# ATLAS YÜK KALDIRMA ve GİRDİRME ÜRÜNLERİ ATLAS LIFTING AND PULLING EQUIPMENTS

## ► ZİNCİRLİ ELEKTRİKİ VİNC (2 HAREKETLİ HIZLI 380V) ELECTRICAL CHAIN HOIST FAST

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | KALDIRMA<br>YÜKSEKLİĞİ<br>LIFTING<br>HEIGHT<br>(METRE) | TEST<br>YÜKÜ<br>TEST<br>LOAD<br>(Kg) | ZİNCİR<br>DONAMIM<br>SAYISI<br>REEVING | MOTOR<br>GÜCÜ<br>POWER<br>(kW) | YÜK<br>ZİNCİR<br>ÖLÇÜSÜ<br>LOAD<br>CHAIN<br>DIAMETER | KALDIRMA<br>HIZI<br>CHAIN<br>LENGHT<br>(METER)<br>(m/dk) | KORUMA<br>SINIFI<br>PROTEC-<br>TION<br>CLASS | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------|--------------------------------|------------------------------------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------|
| ATZCE 05    | 0.5                           | 6                                                      | 625                                  | 1                                      | 1.1                            | 6.3                                                  | 7.2                                                      | IP54                                         | 50                        |
| ATZCE 1     | 1                             | 6                                                      | 1250                                 | 1                                      | 1.5                            | 7.1                                                  | 6.8                                                      | IP54                                         | 58                        |
| ATZCE 2     | 2                             | 6                                                      | 2500                                 | 1                                      | 3.0                            | 10                                                   | 6.6                                                      | IP54                                         | 101                       |
| ATZCE 3     | 3                             | 6                                                      | 3750                                 | 1                                      | 3.3                            | 11.2                                                 | 5.6                                                      | IP54                                         | 125                       |

## ► ZİNCİRLİ ELEKTRİKİ PLUS VİNC (2 HAREKETLİ TRİFAZE + ŞANZİMAN SIVI YAĞLI + ÇİFT HIZ) ELECTRICAL CHAIN HOIST - FLUID OIL

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | KALDIRMA<br>YÜKSEKLİĞİ<br>LIFTING<br>HEIGHT<br>(METRE) | TEST<br>YÜKÜ<br>TEST<br>LOAD<br>(Kg) | ZİNCİR<br>DONAMIM<br>SAYISI<br>REEVING | MOTOR<br>GÜCÜ<br>POWER<br>(kW) | YÜK<br>ZİNCİR<br>ÖLÇÜSÜ<br>LOAD<br>CHAIN<br>DIAMETER | KALDIRMA<br>HIZI<br>CHAIN<br>LENGHT<br>(METER)<br>(m/dk) | KORUMA<br>SINIFI<br>PROTEC-<br>TION<br>CLASS | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------|--------------------------------|------------------------------------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------|
| ATZCS05     | 0.5                           | 6                                                      | 630                                  | 1                                      | 0.9                            | 6.3                                                  | 7,6-2,5                                                  | IP54                                         | 65                        |
| ATZCS1      | 1                             | 6                                                      | 1250                                 | 1                                      | 1.1                            | 8.0                                                  | 5-1,7                                                    | IP54                                         | 74                        |
| ATZCS1-12   | 1                             | 12                                                     | 1250                                 | 1                                      | 1.1                            | 8.0                                                  | 5-1,7                                                    | IP54                                         | 82                        |
| ATZCS2      | 2                             | 6                                                      | 2500                                 | 2                                      | 1.1                            | 8.0                                                  | 2,5-0,85                                                 | IP54                                         | 89                        |
| ATZCS2-12   | 2                             | 12                                                     | 2500                                 | 2                                      | 1.1                            | 8.0                                                  | 2,5-0,85                                                 | IP54                                         | 105                       |
| ATZCS3      | 3                             | 6                                                      | 3750                                 | 1                                      | 3.0                            | 11.2                                                 | 6-2                                                      | IP54                                         | 140                       |
| ATZCS5      | 5                             | 6                                                      | 6250                                 | 2                                      | 3.0                            | 11.2                                                 | 3-1                                                      | IP54                                         | 162                       |

## ► ZİNCİRLİ ELEKTRİKİ VİNC (2 HAREKETLİ MONOFAZE 220V) ELECTRICAL CHAIN HOIST 2 ACT

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | KALDIRMA<br>YÜKSEKLİĞİ<br>LIFTING<br>HEIGHT<br>(METRE) | TEST<br>YÜKÜ<br>TEST<br>LOAD<br>(Kg) | ZİNCİR<br>DONAMIM<br>SAYISI<br>REEVING | MOTOR<br>GÜCÜ<br>POWER<br>(kW) | YÜK<br>ZİNCİR<br>ÖLÇÜSÜ<br>LOAD<br>CHAIN<br>DIAMETER | KALDIRMA<br>HIZI<br>CHAIN<br>LENGHT<br>(METER)<br>(m/dk) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------|--------------------------------|------------------------------------------------------|----------------------------------------------------------|---------------------------|
| ATEC 05     | 0.5                           | 6                                                      | 625                                  | 1                                      | 1.4                            | 6.3                                                  | 5                                                        | 20                        |
| ATEC 1      | 1                             | 6                                                      | 1250                                 | 2                                      | 1.4                            | 6.3                                                  | 2.5                                                      | 35                        |



## ► ZİNCİRLİ ELEKTRİKİ VİNC (4 HAREKETLİ HIZLI 380V) ELECTRICAL CHAIN HOIST FAST



| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MOTOR<br>GÜCÜ<br>POWER<br>(kW) | RAYDA<br>YÜRÜME<br>HIZI<br>ON RAIL<br>WALKING<br>SPEED<br>m/dk | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|--------------------------------|----------------------------------------------------------------|---------------------------|
| ATZCE-T1    | 0.5                           | 0.4                            | 11                                                             | 32                        |
| ATZCE-T2    | 1                             | 0.4                            | 11                                                             | 38                        |
| ATZCE-T3    | 3                             | 0.75                           | 11                                                             | 50                        |



## ► KABLOSUZ VİNC KUMANDASI WIRELESS CRANE CONTROLLER

| KOD<br>CODE | VOLTAJ<br>VOLTAGE |
|-------------|-------------------|
| ATZCE-C4S   | AC/DC 18-65 V     |



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## ATLAS YÜK KALDIRMA ve GERDİRME ÜRÜNLERİ ATLAS LIFTING AND PULLING EQUIPMENTS



### ► TRİFOR WIRE ROPE WINCH SET

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | STANDART<br>HALAT BOYU<br>STD. ROPE<br>LENGTH (m) | HALAT ÇAPI<br>ROPE<br>DIAMETER<br>(mm) | TEST<br>YÜKÜ<br>TEST<br>LOAD | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------|----------------------------------------|------------------------------|---------------------------|
| ATT 0820    | 0,8                           | 20                                                | 8,3                                    | 1                            | 13                        |
| ATT 1620    | 1,6                           | 20                                                | 11                                     | 2                            | 26,5                      |
| ATT 1630    | 1,6                           | 30                                                | 11                                     | 2                            | 30                        |
| ATT 3220    | 3,2                           | 20                                                | 16                                     | 4                            | 48,5                      |
| ATT 3230    | 3,2                           | 30                                                | 16                                     | 4                            | 58                        |

### ► PAKET TAŞIMA ARABASI HAND TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(kg) | TABLA<br>ÖLÇÜSÜ<br>SIZES<br>(mm) | YÜKSEKLİK<br>HEIGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|------------------------------|----------------------------------|-----------------------------|---------------------------|
| ATYA 150    | 150                          | 480x735                          | 820                         | 7.6                       |
| ATYA 300    | 300                          | 610x900                          | 870                         | 14                        |



### ► YÜK TAŞIMA ARABALARI TRANSPORT TROLLEYS

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | TEMAS<br>YÜZEYİ<br>CONTACT<br>SURFACE (mm) | KOL UZUNLUK<br>AYAR ÖLÇÜSÜ<br>ARM LENGTH<br>SETTING SIZE (mm) | TEKERLEK<br>SAYISI<br>WHEELS<br>(pcs) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|--------------------------------------------|---------------------------------------------------------------|---------------------------------------|---------------------------|
| ATYA 8      | 4+2+2 8 TON                   | 150 / 130x130                              | 1020 / 320 - 1000                                             | 4+4=8                                 | 28                        |
| ATYA 16     | 8+4+4 16 TON                  | 160 / 200x160                              | 1300 / 400 - 1300                                             | 8+8=16                                | 72                        |
| ATYA 24     | 12+6+6 24 TON                 | 180 / 220x180                              | 1300 / 400 - 1300                                             | 12+12=24                              | 100                       |
| ATYA 36     | 18+9+9 36 TON                 | 200 / 280x200                              | 1470 / 400 - 1500                                             | 18+18=36                              | 138                       |
| ATYA 48     | 24+12+12 48 TON               | 220 / 330x200                              | 1500 / 600 - 2000                                             | 12+12=24                              | 240                       |
| ATYA 64     | 32+16+16 64 TON               | 250 / 420x220                              | 1760 / 800 - 2000                                             | 16+16=32                              | 310                       |

### ► KISA TRANSPALET SHORT HAND PALLET TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT (mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT (mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS (mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGTH<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTPK 2     | 2                             | 75                                                         | 190                                                        | 550                                                  | 800                                         | 50                        |



# ATLAS YÜK KALDIRMA ve GİRDİRME ÜRÜNLERİ ATLAS LIFTING AND PULLING EQUIPMENTS



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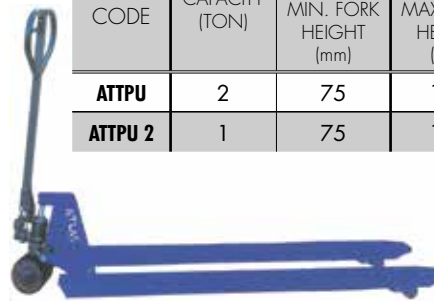
ATLAS<sup>PRO</sup>

## STANDART TRANSPALET STANDARD HAND PALLET TRUCK



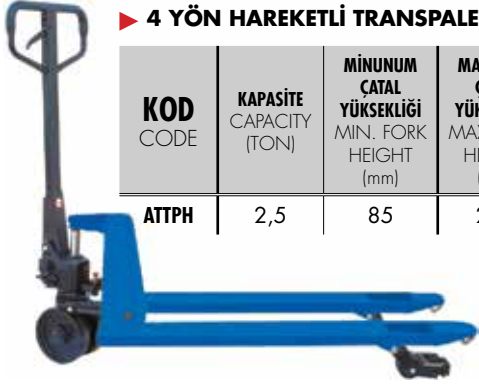
| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTP        | 2,5                           | 75                                                            | 190                                                           | 550                                                     | 1150                                        | 66                        |
| ATTP 2.5    | 2,5                           | 75                                                            | 190                                                           | 550                                                     | 1150                                        | 64,5                      |
| ATTP 3      | 3                             | 75                                                            | 190                                                           | 550                                                     | 1150                                        | 77                        |
| ATTP 5      | 5                             | 88                                                            | 205                                                           | 550                                                     | 1150                                        | 106,5                     |

## UZUN TRANSPALET PALLET TRUCK WITH LONG FORKS



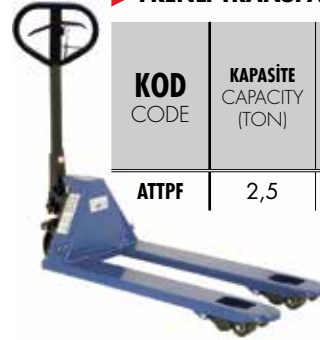
| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTPU       | 2                             | 75                                                            | 190                                                           | 550                                                     | 1500                                        | 85                        |
| ATTPU 2     | 1                             | 75                                                            | 190                                                           | 550                                                     | 2000                                        | 102                       |

## 4 YÖN HAREKETLİ TRANSPALET FOUR WAY ROLLER PALLET TRUCK



| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTPH       | 2,5                           | 85                                                            | 200                                                           | 550                                                     | 1150                                        | 65                        |

## FRENLİ TRANSPALET HAND PALLET TRUCK WITH BRAKE



| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTPF       | 2,5                           | 85                                                            | 200                                                           | 550                                                     | 1150                                        | 73                        |

## MİNİ TRANSPALET MINI HAND PALLET TRUCK



| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTP 0.5    | 0,5                           | 60                                                            | 150                                                           | 380                                                     | 800                                         | 35                        |

## DÜŞÜK ŞASE TRANSPALET LOW HEIGHT HAND PALLET TRUCK



| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTPD 1     | 1                             | 35                                                            | 105                                                           | 550                                                     | 1100                                        | 85                        |



ŞENOL MAKİNA

ATLAS<sup>PRO</sup>

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## ATLAS YÜK KALDIRMA ve GERDİRME ÜRÜNLERİ ATLAS LIFTING AND PULLING EQUIPMENTS

### ► TERAZİLİ YAZICILI TRANSPALET SCALE PALLET TRUCK WITH PRINTER

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATPT 2      | 2                             | 85                                                            | 175                                                           | 540                                                     | 1150                                        | 133                       |



### ► AKÜLÜ TRANSPALET ELECTRIC PALLET TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATPA 1      | 1                             | 85                                                            | 200                                                           | 550                                                     | 1150                                        | 150                       |



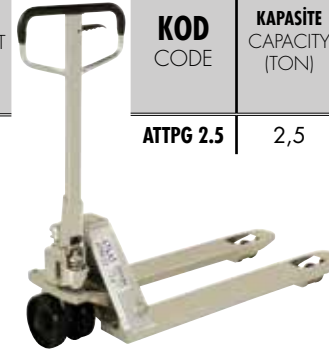
### ► TERAZİLİ TRANSPALET SCALE PALLET TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATPT2E      | 2                             | 85                                                            | 175                                                           | 540                                                     | 1150                                        | 120                       |



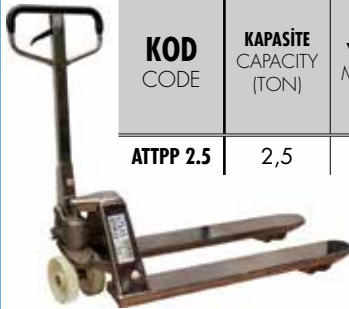
### ► GALVANİZ TRANSPALET GALVANIZED PALLET TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATPG 2.5    | 2,5                           | 85                                                            | 200                                                           | 550                                                     | 1100                                        | 70                        |



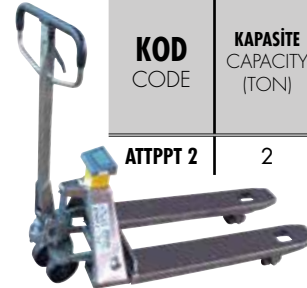
### ► INOX TRANSPALET STAINLESS STEEL PALLET TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTP 2.5    | 2,5                           | 85                                                            | 200                                                           | 550                                                     | 1150                                        | 77,5                      |



### ► INOX TERAZİLİ TRANSPALET SCALE STAINLESS STEEL PALLET TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTPPT 2    | 2                             | 76                                                            | 195                                                           | 540                                                     | 1150                                        | 130                       |



# ATLAS YÜK KALDIRMA ve GİRDİRME ÜRÜNLERİ ATLAS LIFTING AND PULLING EQUIPMENTS



ŞENOL MAKİNA



► **MAKASLI TRANSPALET YÜKSEK ŞASELİ** STANDART HIGH LIFT TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT (mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT (mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATPS        | 1                             | 85                                                         | 800                                                        | 550                                                     | 1210                                        | 127,5                     |



► **MAKASLI PLATFORM** SCISSOR LIFT TABLE

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(KG) | MİNUNUM<br>TABLA<br>YÜKSEKLİĞİ<br>MIN.<br>HEIGHT<br>(mm) | MAXİMUM<br>TABLA<br>YÜKSEKLİĞİ<br>MAX.<br>HEIGHT<br>(mm) | TABLA<br>ÖLÇÜLERİ<br>SIZES (mm) | MAKS. YÜKSEKLİK<br>İÇİN PEDAL<br>BASIMI SAYISI<br>FOOT CYCLES<br>TO REACH<br>MAX. HEIGHT | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------|---------------------------|
| ATP 150     | 150                          | 225                                                      | 740                                                      | 740x450                         | 25                                                                                       | 47                        |
| ATP 300     | 300                          | 340                                                      | 900                                                      | 855x500                         | 32                                                                                       | 85,5                      |
| ATP 500     | 500                          | 340                                                      | 900                                                      | 855x500                         | 45                                                                                       | 89,5                      |
| ATP 800     | 800                          | 420                                                      | 1000                                                     | 1000x510                        | 70                                                                                       | 124                       |
| ATP 1500    | 1500                         | 420                                                      | 1000                                                     | 1220x610                        | 70                                                                                       | 125                       |



► **MAKASLI TRANSPALET** HIGH LIFT TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN. FORK<br>HEIGHT (mm) | MAXİMUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MAX. FORK<br>HEIGHT (mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTPM       | 1                             | 85                                                         | 800                                                        | 550                                                     | 1150                                        | 107,5                     |



► **ÇİFT MAKASLI PLATFORM** DOUBLE SCISSOR LIFT TABLE

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(KG) | MİNUNUM<br>TABLA<br>YÜKSEKLİĞİ<br>MIN.<br>TABLE<br>HEIGHT<br>(mm) | MAXİMUM<br>TABLA<br>YÜKSEKLİĞİ<br>MAX. TABLE<br>HEIGHT<br>(mm) | TABLA<br>ÖLÇÜLERİ<br>TABLE<br>SIZES (mm) | MAKS. YÜKSEKLİK<br>İÇİN PEDAL<br>BASIMI SAYISI<br>FOOT CYCLES<br>TO REACH<br>MAX. HEIGHT | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------|---------------------------|
| ATDP 350    | 350                          | 350                                                               | 1300                                                           | 910x500                                  | 60                                                                                       | 114                       |
| ATDP 800    | 800                          | 475                                                               | 1500                                                           | 1220x610                                 | 70                                                                                       | 166                       |

ATLAS<sup>PRO</sup>





ŞENOL MAKİNA

ATLAS<sup>PRO</sup><sub>III</sub>

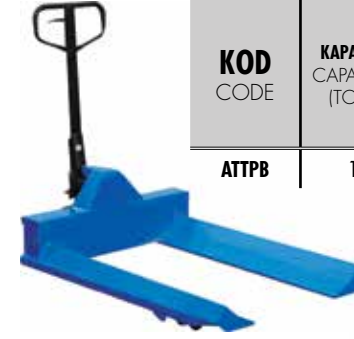


## ATLAS YÜK KALDIRMA ve GERDİRME ÜRÜNLERİ ATLAS LIFTING AND PULLING EQUIPMENTS



### ► BOBİN TAŞIMA TRANSPALETİ REEL CARRIER TRUCK

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | BOBİN ÇAPI<br>DIAMETER OF<br>BALE (mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGTH<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|----------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTPB       | 1                             | 700-1200                               | 965                                                     | 1150                                        | 135                       |



### ► VARİL İSTİF MAKİNASI BARREL STACKER

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN.<br>FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>KALDIRMA<br>YÜKSEKLİĞİ<br>MAX.<br>FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | MAKİNA<br>YÜKSEKLİĞİ<br>MACHINE<br>HEIGHT<br>(mm) | DÖNÜŞ<br>YARI ÇAPI<br>RETURN<br>RADIUS<br>DIAMETER<br>(mm) | YÜKLEME<br>MERKEZİ<br>MESAFESİ<br>LOADING<br>CENTRAL<br>DISTANCE<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------|
| ATVIM       | 0,35                          | 385                                                              | 1945                                                                | 750                                                     | 1270                                              | 1200                                                       | 570                                                                      | 232                       |



AYARLANABİLİR  
ÇATALLI

### ► MANUEL İSTİF MAKİNASI ADJUSTABLE MANUAL STACKER

### ► ARKA KORUMALI TRANSPALET PALLET TRUCK WITH BACKREST

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN.<br>FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>KALDIRMA<br>YÜKSEKLİĞİ<br>MAX.<br>FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGTH<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|---------------------------|
| ATTPK       | 2,5                           | 85                                                               | 200                                                                 | 550                                                     | 1150                                        | 95                        |

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | MİNUNUM<br>ÇATAL<br>YÜKSEKLİĞİ<br>MIN.<br>FORK<br>HEIGHT<br>(mm) | MAXİMUM<br>KALDIRMA<br>YÜKSEKLİĞİ<br>MAX.<br>FORK<br>HEIGHT<br>(mm) | ÇATAL<br>GENİŞLİĞİ<br>WIDTH<br>OVERALL<br>FORKS<br>(mm) | ÇATAL<br>UZUNLUĞU<br>FORK<br>LENGTH<br>(mm) | MİNUNUM<br>MAKİNA<br>YÜKSEKLİĞİ<br>OVERALL<br>HEIGHT<br>(mm) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------|---------------------------|
| ATMI 1016   | 1                             | 90                                                               | 1600                                                                | 300-850                                                 | 1000                                        | 1500                                                         | 255                       |
| ATMI 1025   | 1                             | 90                                                               | 2500                                                                | 300-850                                                 | 1000                                        | 1500                                                         | 355                       |
| ATMI 1516   | 1.5                           | 90                                                               | 1600                                                                | 300-850                                                 | 1000                                        | 1500                                                         | 290                       |





ŞENOL MAKİNA



## CERMAX HİDROLİK YÜK KALDIRMA VE ÇEKTİRME EKİPMANLARI

### CERMAX HYDRAULIC LIFTING AND PULLING EQUIPMENTS

Cermax, 2008 yılından bugüne kaldırma, taşıma, itme, çekme ve bükme gibi endüstriyel kullanımlara yönelik onlarca farklı kombinasyonu içeren profesyonel çözümler sunuyor. Standart ürün gruplarının yanı sıra, kapasite, strok, boy, ölçü kısıtlaması olmaksızın, ihtiyaca yönelik çözümler üretiyor. Garanti süresi, servis sürelerinin minimum düzeyde tutulması, yedek parça ve sınırsız teknik destek ile birçok ulusal ve uluslararası projede yükünüzü hafifletiyor.

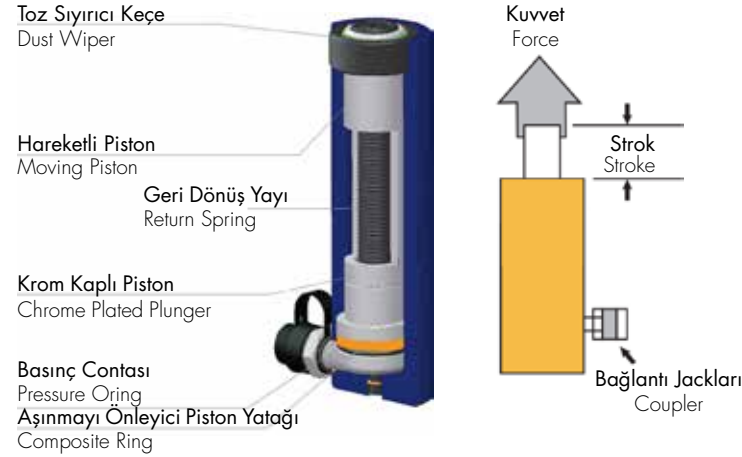
#### DOĞRU SİLİNDİR SEÇİMİ:

1. İstenen kaldırma ya da çekme yükü nedir? Her zaman için istenen tonajın %20 üzerinde bir silindir seçimi yapılmalıdır!
2. İstenen kaldırma ya da çekme mesafesi nedir?
3. Silindir kaldırma, çekme ya da her iki amaçla da mı kullanılacak?
4. Sistem çoklu silindir kullanımını gerektiriyor mu?
5. Sistem kolay taşınabilirlik açısından hafif komponentlerden mi oluşmalı? Yoksa yerinde sabit uygulamalar yeterli mi?
6. Silindir yüzey alanı uygulama için uygun mu?
7. Silindir kapalı boyu uygulama için uygun mu?
8. Kullanılacak ürünlerde paslanmazlık talebi ve koşulu söz konusu mu?

Cermax provides professional solutions for lifting, stretching and bending since 2008. Beside standard products range, different capacities, sizes, and options can be produced. Varranty time, fast action service response, wide spare part availability and limitless after sales support are the most profitable values of Cermax.

#### CHOOSING THE RIGHT CYLINDER:

1. What push or pull force is required per cylinder? Always choose a cylinder with a tonnage rating of 20% or more than what is required.
2. What is the push or pull stroke length required?
3. Does the cylinder need to push, pull or both?
4. Does the application require multiple cylinders?
5. Is the application stationary, or must the components be light in weight for easy portability?
6. Does the application require that the cylinder fit within limited-clearance work areas?
7. Does the application require that the cylinder be "dead-ended" at the end of its work stroke?
8. Is corrosion resistance required?



Not: Kesit görünümü ve açıklamalar üründen ürüne farklılık gösterebilir. Note: Drawing is representative, may not represent all cylinders in this section.

#### NE TÜR BİR SİLİNDİRE İHTİYACINIZ VAR?

1. **Silindir Kapasitesi Tespiti :**  
Yük (kg) = Silindir yüzey alanı (cm<sup>2</sup>) x Pompa basıncı (bar)
2. **Silindir Yağ Kapasitesi Tespiti :**  
Yağ kapasitesi (cm<sup>3</sup>) = Silindir yüzey alanı (cm<sup>2</sup>) x Silindir stroku (cm)
3. **Çoklu Sistemler İçin Yağ Rezervuarı Tespiti :**  
Yağ kapasitesi (cm<sup>3</sup>) = Silindir yüzey alanı (cm<sup>2</sup>) x Silindir stroku (cm)

#### WHAT TYPE OF CYLINDER DO YOU NEED?

1. To Determine A Cylinder's Force Capacity:  
Force (kg) = Cylinder Effective Area (cm<sup>2</sup>) x Pump Pressure (bar)
2. To Determine Oil Capacity Of Cylinder :  
Oil Capacity (cm<sup>3</sup>) = Cylinder Effective Area (cm<sup>2</sup>) x Cylinder Stroke (cm)
3. To Determine Reservoir Capacity Needed For a Multiple Cylinder System:  
Oil Capacity (cm<sup>3</sup>) = Cylinder Effective Area (cm<sup>2</sup>) x Cylinder Stroke (cm)

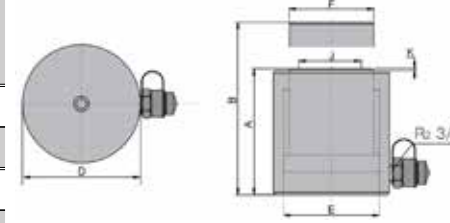
# CERMAX HİDROLİK YÜK KALDIRMA VE ÇEKTİRME EKİPMANLARI

## CERMAX HYDRAULIC LIFTING AND PULLING EQUIPMENTS

### ► HİDROLİK SİLİNDİRLER (TEK TESİRLİ YAY GERİ DÖNÜŞLÜ)

HYDRAULIC CYLINDERS SINGLE ACTING

| KOD<br>CODE  | ÇALIŞMA<br>TONAJI<br>CAPACITY<br>(TON) | ÇALIŞMA<br>STROKU<br>STROKE<br>(mm) | KAPALI<br>BOY<br>CLOSED<br>HEIGHT<br>(mm) (A) | AÇIK<br>BOY<br>OPEN<br>HEIGHT<br>(mm) (B) | SİLİNDİR<br>DIŞ ÇAP<br>CYLINDER<br>DIAMETER<br>(mm) (D) | SİLİNDİR<br>PİSTON ÇAP<br>STROKE<br>DIAMETER<br>(mm) (F) | KULLANILAN<br>POMPA MODELİ<br>RECOMMENDED<br>PUMP | YAĞ<br>KAPASİTESİ<br>OIL CAPACITY<br>(cm <sup>3</sup> ) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|--------------|----------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------|
| RSC - 1010   | 10                                     | 10                                  | 48                                            | 58                                        | 83                                                      | 38                                                       | CP-700B                                           | 16                                                      | 1.6                       |
| RSC - 1050   |                                        | 50                                  | 122                                           | 172                                       | 68                                                      | 36                                                       | CP-700B                                           | 85                                                      | 3.1                       |
| RSC - 10100  |                                        | 100                                 | 172                                           | 272                                       | 68                                                      | 36                                                       | CP-700B                                           | 169                                                     | 4.4                       |
| RSC - 10150  |                                        | 150                                 | 222                                           | 372                                       | 68                                                      | 36                                                       | CP-700B                                           | 254                                                     | 5.7                       |
| RSC - 2011   | 20                                     | 11                                  | 56                                            | 67                                        | 99                                                      | 50                                                       | CP-700B                                           | 34                                                      | 2.7                       |
| RSC - 2050   |                                        | 50                                  | 126                                           | 176                                       | 83                                                      | 45                                                       | CP-700B                                           | 157                                                     | 4.0                       |
| RSC - 20100  |                                        | 100                                 | 176                                           | 276                                       | 83                                                      | 45                                                       | CP-700B                                           | 311                                                     | 5.3                       |
| RSC - 20150  |                                        | 150                                 | 226                                           | 376                                       | 83                                                      | 45                                                       | CP-700B                                           | 465                                                     | 6.6                       |
| RSC - 3013   | 30                                     | 13                                  | 62                                            | 75                                        | 123                                                     | 64                                                       | CP-700B                                           | 55                                                      | 4.6                       |
| RSC - 3050   |                                        | 50                                  | 137                                           | 187                                       | 103                                                     | 65                                                       | CP-700B                                           | 237                                                     | 7.9                       |
| RSC - 30100  |                                        | 100                                 | 187                                           | 287                                       | 103                                                     | 65                                                       | CP-700B                                           | 471                                                     | 10.7                      |
| RSC - 30150  |                                        | 150                                 | 237                                           | 387                                       | 103                                                     | 65                                                       | CP-700A                                           | 705                                                     | 13.5                      |
| RSC - 5016   | 50                                     | 16                                  | 72                                            | 88                                        | 148                                                     | 70                                                       | CP-700B                                           | 101                                                     | 7.8                       |
| RSC - 5050   |                                        | 50                                  | 147                                           | 197                                       | 123                                                     | 70                                                       | CP-700B                                           | 389                                                     | 11.6                      |
| RSC - 50100  |                                        | 100                                 | 197                                           | 297                                       | 123                                                     | 70                                                       | CP-700A                                           | 768                                                     | 14.9                      |
| RSC - 50150  |                                        | 150                                 | 247                                           | 397                                       | 123                                                     | 70                                                       | CP-700A                                           | 1147                                                    | 18.0                      |
| RSC - 10016  | 100                                    | 16                                  | 91                                            | 107                                       | 188                                                     | 100                                                      | CP-700B                                           | 200                                                     | 16.8                      |
| RSC - 10050  |                                        | 50                                  | 182                                           | 232                                       | 168                                                     | 90                                                       | CP-700A                                           | 833                                                     | 25.7                      |
| RSC - 100100 |                                        | 100                                 | 232                                           | 332                                       | 168                                                     | 90                                                       | CP-700A                                           | 1584                                                    | 30.6                      |
| RSC - 100150 |                                        | 150                                 | 282                                           | 432                                       | 168                                                     | 90                                                       | CP-700A                                           | 2335                                                    | 35.5                      |
| RSC - 20050  | 200                                    | 50                                  | 202                                           | 252                                       | 228                                                     | 135                                                      | CP-700A                                           | 1500                                                    | 60.0                      |
| RSC - 200100 |                                        | 100                                 | 252                                           | 352                                       | 228                                                     | 135                                                      | ZCB65                                             | 2953                                                    | 71.0                      |
| RSC - 200150 |                                        | 150                                 | 302                                           | 452                                       | 228                                                     | 135                                                      | ZCB65                                             | 4406                                                    | 83.0                      |





ŞENOL MAKİNA



**CERMAX®**  
HİDROLİK YÜK KALDIRMA VE ÇEKTİRME EKİPMANLARI

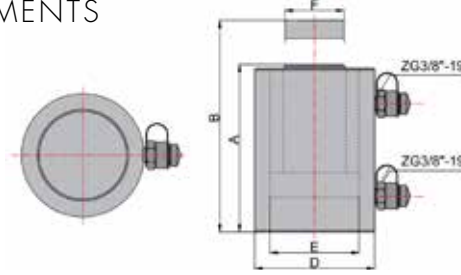


## CERMAX HİDROLİK YÜK KALDIRMA VE ÇEKTİRME EKİPMANLARI

### CERMAX HYDRAULIC LIFTING AND PULLING EQUIPMENTS

#### ► HİDROLİK ÇİFT TESİRLİ YÜKSEK TONAJLI SİLİNDİRLER

##### HYDRAULIC HIGH TONNAGE CYLINDERS DOUBLE ACTING

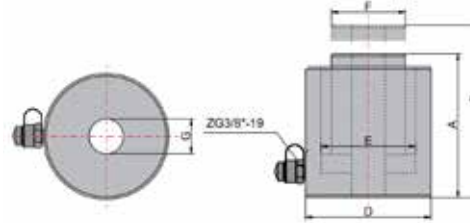


| KOD<br>CODE   | ÇALIŞMA<br>TONAJI<br>CAPACITY<br>(TON) | ÇALIŞMA<br>STROKU<br>STROKE<br>(mm) | KAPALI<br>BOY<br>CLOSED<br>HEIGHT<br>(mm) (A) | AÇIK<br>BOY<br>OPEN<br>HEIGHT<br>(mm) (B) | SİLİNDİR DIŞ<br>ÇAP<br>CYLINDER<br>DIAMETER<br>(mm) (D) | SİLİNDİR<br>PİSTON ÇAP<br>STROKE<br>DIAMETER<br>(mm) (F) | KULLANILAN<br>POMPA MODELİ<br>RECOMMENDED<br>PUMP | YAĞ<br>KAPASİTESİ İTME<br>OIL CAPACITY<br>PUSH (cm <sup>3</sup> ) | YAĞ<br>KAPASİTESİ ÇEKME<br>OIL CAPACITY<br>PULL (cm <sup>3</sup> ) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|---------------|----------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------|
| RSC - 100200S | 100                                    | 200                                 | 389                                           | 589                                       | 175                                                     | 90                                                       | ZCB65B                                            | 2863                                                              | 1590                                                               | 60.0                      |
| RSC - 100300S |                                        | 300                                 | 489                                           | 789                                       | 175                                                     | 90                                                       | ZCB65B                                            | 4294                                                              | 2384                                                               | 73.0                      |
| RSC - 200150S | 200                                    | 150                                 | 317                                           | 467                                       | 228                                                     | 135                                                      | ZCB65B                                            | 4253                                                              | 2105                                                               | 84.0                      |
| RSC - 200300S |                                        | 300                                 | 467                                           | 767                                       | 228                                                     | 135                                                      | ZCB65B                                            | 8506                                                              | 4210                                                               | 146.0                     |
| RSC - 250150S | 250                                    | 150                                 | 361                                           | 511                                       | 270                                                     | 180                                                      | ZCB65B                                            | 5446                                                              | 1628                                                               | 135.0                     |
| RSC - 250300S |                                        | 300                                 | 511                                           | 811                                       | 270                                                     | 180                                                      | ZCB65B                                            | 10892                                                             | 3256                                                               | 184.0                     |



#### ► HİDROLİK DELİKLİ SİLİNDİRLER (TEK TESİRLİ YAY GERİ DÖNÜŞLÜ)

##### HYDRAULIC CYLINDERS SINGLE ACTING WITH HOLE



| KOD<br>CODE | ÇALIŞMA<br>TONAJI<br>CAPACITY<br>(TON) | ÇALIŞMA<br>STROKU<br>STROKE<br>(mm) | KAPALI<br>BOY<br>CLOSED<br>HEIGHT<br>(mm) (A) | AÇIK<br>BOY<br>OPEN<br>HEIGHT<br>(mm) (B) | SİLİNDİR DIŞ<br>ÇAP<br>CYLINDER<br>DIAMETER<br>(mm) (D) | SİLİNDİR<br>PİSTON ÇAP<br>STROKE<br>DIAMETER<br>(mm) (F) | SİLİNDİR<br>PİSTON<br>DELİK ÇAPI<br>CENTER<br>HOLE<br>DIAMETER<br>(mm) (G) | KULLANILAN<br>POMPA MODELİ<br>RECOMMENDED<br>PUMP | YAĞ<br>KAPASİTESİ<br>OIL CAPACITY<br>(cm <sup>3</sup> ) | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|----------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------|
| RCH - 2050  | 20                                     | 50                                  | 161                                           | 211                                       | 98                                                      | 54                                                       | 27                                                                         | CP-700B                                           | 146                                                     | 7.5                       |
| RCH - 20100 |                                        | 100                                 | 223                                           | 323                                       | 98                                                      | 54                                                       | 27                                                                         | CP-700B                                           | 292                                                     | 10.0                      |
| RCH - 3050  | 30                                     | 50                                  | 180                                           | 230                                       | 114                                                     | 63                                                       | 33                                                                         | CP-700B                                           | 239                                                     | 9.0                       |
| RCH - 30100 |                                        | 100                                 | 246                                           | 346                                       | 114                                                     | 63                                                       | 33                                                                         | CP-700B                                           | 477                                                     | 14.5                      |
| RCH - 6050  | 60                                     | 50                                  | 247                                           | 297                                       | 158                                                     | 91                                                       | 54                                                                         | CP-700A                                           | 402                                                     | 30.2                      |
| RCH - 60100 |                                        | 100                                 | 304                                           | 404                                       | 158                                                     | 91                                                       | 54                                                                         | CP-700A                                           | 803                                                     | 36.2                      |
| RCH - 10075 | 100                                    | 75                                  | 276                                           | 351                                       | 212                                                     | 127                                                      | 80                                                                         | CP-700A                                           | 1015                                                    | 57.0                      |



# CERMAX HİDROLİK YÜK KALDIRMA VE ÇEKTİRME EKİPMANLARI

## CERMAX HYDRAULIC LIFTING AND PULLING EQUIPMENTS

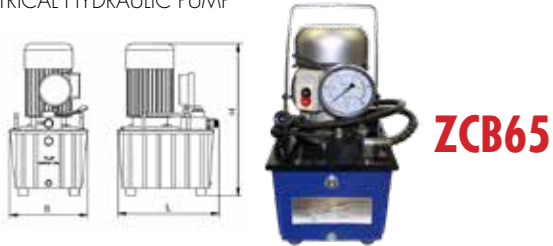
### ► TEK TESİRLİ HİDROLİK POMPA SINGLE ACTING HYDRAULIC PUMP

| KOD<br>CODE | ÇALIŞMA BASINCI<br>WORKING PRESSURE (BAR) |                                | BİRİM YAĞ GEÇİŞ MİKTARI<br>OIL DISPLACEMENT PER STROKE (cm³) |                                | YAĞ KAPASİTESİ<br>RESERVOR (cm³) |                                                     | ÖLÇÜLER<br>DIMENSIONS (mm) |     |     | AĞIRLIK<br>WEIGHT (Kg) |
|-------------|-------------------------------------------|--------------------------------|--------------------------------------------------------------|--------------------------------|----------------------------------|-----------------------------------------------------|----------------------------|-----|-----|------------------------|
|             | DÜŞÜK BASINÇ<br>LOW PRESSURE              | YÜKSEK BASINÇ<br>HIGH PRESSURE | DÜŞÜK BASINÇ<br>LOW PRESSURE                                 | YÜKSEK BASINÇ<br>HIGH PRESSURE | YAĞ KAPASİTESİ<br>OIL CAPACITY   | KULLANILABİLİR<br>YAĞ KAPASİTESİ<br>USABLE CAPACITY | L                          | B   | H   |                        |
| CP700B      | 20                                        | 700                            | 13                                                           | 2.3                            | 1000                             | 700                                                 | 600                        | 120 | 200 | 10.6                   |
| CP700A      | 20                                        | 700                            | 13                                                           | 2.3                            | 3200                             | 2700                                                | 715                        | 120 | 200 | 16.8                   |
| CP1500B     | 20                                        | 1500                           | 13                                                           | 1.2                            | 2500                             | 2000                                                | 580                        | 120 | 160 | 7.0                    |

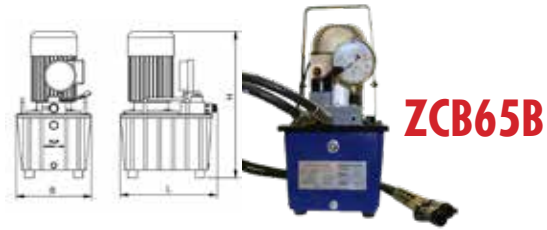
### ► ÇİFT TESİRLİ HİDROLİK POMPA DOUBLE ACTING HYDRAULIC PUMP

| KOD<br>CODE | ÇALIŞMA BASINCI<br>WORKING PRESSURE (BAR) |                                | BİRİM YAĞ GEÇİŞ MİKTARI<br>OIL DISPLACEMENT PER STROKE (cm³) |                                | YAĞ KAPASİTESİ<br>RESERVOR (cm³) |                                                     | ÖLÇÜLER<br>DIMENSIONS (mm) |     |     | AĞIRLIK<br>WEIGHT (Kg) |
|-------------|-------------------------------------------|--------------------------------|--------------------------------------------------------------|--------------------------------|----------------------------------|-----------------------------------------------------|----------------------------|-----|-----|------------------------|
|             | DÜŞÜK BASINÇ<br>LOW PRESSURE              | YÜKSEK BASINÇ<br>HIGH PRESSURE | DÜŞÜK BASINÇ<br>LOW PRESSURE                                 | YÜKSEK BASINÇ<br>HIGH PRESSURE | YAĞ KAPASİTESİ<br>OIL CAPACITY   | KULLANILABİLİR<br>YAĞ KAPASİTESİ<br>USABLE CAPACITY | L                          | B   | H   |                        |
| CP700       | 20                                        | 700                            | 13                                                           | 2.3                            | 3500                             | 3000                                                | 710                        | 150 | 275 | 18.6                   |

### ► ELEKTRİKLİ TEK TESİRLİ HİDROLİK POMPA ELECTRICAL HYDRAULIC PUMP



### ► ELEKTRİKLİ ÇİFT TESİRLİ HİDROLİK POMPA ELECTRICAL HYDRAULIC PUMP



| KOD<br>CODE | GÜÇ<br>POWER (kw) | ÇALIŞMA BASINCI<br>WORKING PRESSURE (BAR) |                                | BİRİM YAĞ GEÇİŞ MİKTARI<br>OIL DISPLACEMENT PER STROKE (lt/min) |                                | YAĞ KAPASİTESİ<br>RESERVOR (lt) | ÖLÇÜLER<br>DIMENSIONS (mm) |     |     | AĞIRLIK<br>WEIGHT (Kg) |
|-------------|-------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------|--------------------------------|---------------------------------|----------------------------|-----|-----|------------------------|
|             |                   | DÜŞÜK BASINÇ<br>LOW PRESSURE              | YÜKSEK BASINÇ<br>HIGH PRESSURE | DÜŞÜK BASINÇ<br>LOW PRESSURE                                    | YÜKSEK BASINÇ<br>HIGH PRESSURE |                                 | L                          | B   | H   |                        |
| ZCB65       | 0.75              | 20                                        | 700                            | 5                                                               | 0,7                            | 8                               | 305                        | 245 | 510 | 22.0                   |
| ZCB65B      | 0.75              | 20                                        | 700                            | 5                                                               | 0.7                            | 8                               | 305                        | 245 | 510 | 26.0                   |



ŞENOL MAKİNA



**CERMAX®**  
HİDROLİK YÜK KALDIRMA VE ÇEKTİRME EKİPMANLARI





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## CERMAX HİDROLİK YÜK KALDIRMA VE ÇEKTİRME EKİPMANLARI

### CERMAX HYDRAULIC LIFTING AND PULLING EQUIPMENTS

#### ► HİDROLİK BLOK ÇEKTİRME (TEK TESİRLİ YAY GERİ DÖNÜŞLÜ)

SINGLE ACTING HYDRAULIC PULLER (SPRING RETURN)

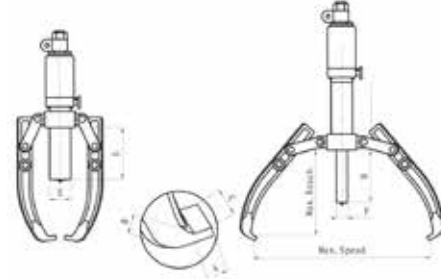
| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | ÇALIŞMA<br>STROCK<br>WORKING<br>STROKE<br>(mm) | KAPALI BOY<br>CLOSED<br>HEIGHT<br>(mm) (H) | KULLANILAN POMPA<br>MODELİ<br>USED HYDRAULIC<br>PUMP |
|-------------|-------------------------------|------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| HBC-30150   | 30                            | 150                                            | 1000                                       | CP-700A                                              |
| HBC-50150   | 50                            | 150                                            | 1060                                       | CP-700A                                              |



#### ► HİDROLİK BLOK ÇEKTİRME (ÇİFT TESİRLİ)

DOUBLE ACTING HYDRAULIC PULLER

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(TON) | ÇALIŞMA<br>STROCK<br>WORKING<br>STROKE<br>(mm) | KAPALI BOY<br>CLOSED<br>HEIGHT<br>(mm) (H) | KULLANILAN POMPA<br>MODELİ<br>USED HYDRAULIC<br>PUMP |
|-------------|-------------------------------|------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| HBCC-30175  | 30                            | 175                                            | 840                                        | CP-700                                               |
| HBCC-50175  | 50                            | 175                                            | 920                                        | CP-700                                               |



#### ► HİDROLİK RULMAN ÇEKTİRME

HYDRAULIC GEAR PULLER

| KOD<br>CODE | KAPASİTE<br>CAPACITY<br>(Ton) | AYAK AÇIKLIĞI<br>SPREAD (mm) | AYAK DERİNLİĞİ<br>MAX REACH<br>(mm) | ÇALIŞMA<br>STROKU<br>STROKE<br>(mm) | ÖLÇÜLER<br>DIMENSIONS (mm) |    |     |    |    |    | AĞIRLIK<br>WEIGHT<br>(Kg) |
|-------------|-------------------------------|------------------------------|-------------------------------------|-------------------------------------|----------------------------|----|-----|----|----|----|---------------------------|
|             |                               |                              |                                     |                                     | E                          | F  | G   | A  | B  | C  |                           |
| HRC5        | 5                             | 50-200                       | 140                                 | 50                                  | 45                         | 12 | 140 | 12 | 22 | 26 | 7.6                       |
| HRC10       | 10                            | 50-250                       | 170                                 | 60                                  | 56                         | 12 | 137 | 14 | 30 | 30 | 10.1                      |
| HRC20       | 20                            | 100-350                      | 205                                 | 70                                  | 78                         | 12 | 150 | 21 | 33 | 33 | 18.6                      |
| HRC30       | 30                            | 150-400                      | 220                                 | 70                                  | 90                         | 12 | 158 | 26 | 36 | 35 | 24.2                      |





**POLYESTER SAPANLAR**  
WEBBING SLINGS



ŞENOL MAKİNA



► **YÜK BANDI**  
RATCHET ASSEMBLY

| KOD<br>CODE | RENK<br>COLOUR | KAPASİTE<br>CAPACITY<br>(TON) | UZUNLUK<br>LENGTH<br>(M) |
|-------------|----------------|-------------------------------|--------------------------|
| YB 2,5      | Mavi           | 0,50                          | 2,5                      |
| YB 4        | Mavi           | 1                             | 4                        |
| YB 5,5      | Turuncu        | 2                             | 5,5                      |
| YB 10       | Turuncu        | 3                             | 10                       |



## POLYESTER SAPANLAR WEBBING SLINGS

► **POLYESTER SAPAN** WEBBING SLINGS

| KOD<br>CODE | GENİŞLİK<br>6:1<br>(mm)<br>WIDTH<br>(mm) | GENİŞLİK<br>7:1<br>(mm)<br>WIDTH<br>(mm) | EN1492-1<br>GÖRE<br>RENK<br>KODLARI<br>COLOUR<br>CODES<br>ACC. TO<br>EN1492-1 | 1 POLYESTER SAPAN İLE ÇALIŞMA YÜK DEĞERLERİ<br>W.L.L FOR SINGLE POLY. SLING |                                      |        |        |         | 2 POLYESTER SAPAN İLE ÇALIŞMA YÜK DEĞERLERİ<br>W.L.L FOR SINGLE POLY. SLING |                                       |                                        |                                            |
|-------------|------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|--------|--------|---------|-----------------------------------------------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------------|
|             |                                          |                                          |                                                                               | DÜZ<br>KALDIRMA<br>DIRECT LIFTING                                           | BOĞUMLU<br>KALDIRMA<br>HITCH LIFTING | β      |        |         | 45° DÜZ<br>KALDIRMA<br>D. LIFTING                                           | 45° BOĞUMLU<br>KALDIRMA<br>H. LIFTING | 45° -60° DÜZ<br>KALDIRMA<br>D. LIFTING | 45° -60° BOĞUMLU<br>KALDIRMA<br>H. LIFTING |
|             |                                          |                                          |                                                                               |                                                                             |                                      | 0°-7°  | 7°-45° | 45°-60° |                                                                             |                                       |                                        |                                            |
|             |                                          |                                          |                                                                               |                                                                             |                                      |        |        |         |                                                                             |                                       |                                        |                                            |
|             |                                          |                                          |                                                                               | 1.0                                                                         | 0.8                                  | 2.0    | 1.4    | 1.0     | 1.4                                                                         | 1.12                                  | 1.0                                    | 0.8                                        |
| PS1         | 25                                       | 30                                       |                                                                               | 1.000                                                                       | 0.800                                | 2.000  | 1.400  | 1.000   | 1.400                                                                       | 1.120                                 | 1.000                                  | 0.800                                      |
| PS2         | 50                                       | 60                                       |                                                                               | 2.000                                                                       | 1.600                                | 4.000  | 2.800  | 2.000   | 2.800                                                                       | 2.240                                 | 2.000                                  | 1.600                                      |
| PS3         | 75                                       | 90                                       |                                                                               | 3.000                                                                       | 2.400                                | 6.000  | 4.200  | 3.000   | 4.200                                                                       | 3.360                                 | 3.000                                  | 2.400                                      |
| PS4         | 100                                      | 120                                      |                                                                               | 4.000                                                                       | 3.200                                | 8.000  | 5.600  | 4.000   | 5.600                                                                       | 4.480                                 | 4.000                                  | 3.200                                      |
| PS5         | 125                                      | 150                                      |                                                                               | 5.000                                                                       | 4.000                                | 10.000 | 7.000  | 5.000   | 7.000                                                                       | 5.600                                 | 5.000                                  | 4.000                                      |
| PS6         | 150                                      | 180                                      |                                                                               | 6.000                                                                       | 4.800                                | 12.000 | 8.400  | 6.000   | 8.400                                                                       | 6.720                                 | 6.000                                  | 4.800                                      |
| PS8         | 200                                      | 240                                      |                                                                               | 8.000                                                                       | 6.400                                | 16.000 | 11.200 | 8.000   | 11.200                                                                      | 8.960                                 | 8.000                                  | 6.400                                      |
| PS10        | 250                                      | 300                                      |                                                                               | 10.000                                                                      | 8.000                                | 20.000 | 14.000 | 10.000  | 14.000                                                                      | 11.200                                | 10.000                                 | 8.000                                      |
| PS20        | 300                                      |                                          |                                                                               | 20.000                                                                      | 16.000                               | 40.000 | 28.000 | 20.000  | 28.000                                                                      | 22.400                                | 20.000                                 | 16.000                                     |

► **SONSUZ POLYESTER SAPAN** ROUND WEBBING SLINGS

| KOD<br>CODE | RENK<br>COLOUR | EN1492-1<br>GÖRE<br>RENK<br>KODLARI<br>COLOUR<br>CODES<br>ACC. TO<br>EN1492-1 | 1 POLYESTER SAPAN İLE ÇALIŞMA YÜK DEĞERLERİ<br>W.L.L FOR SINGLE POLY. SLING |                                      |        |        |         |           |         | 2 POLYESTER SAPAN İLE ÇALIŞMA YÜK DEĞERLERİ<br>W.L.L FOR SINGLE POLY. SLING |                                       |                                        |                                            |
|-------------|----------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|--------|--------|---------|-----------|---------|-----------------------------------------------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------------|
|             |                |                                                                               | DÜZ<br>KALDIRMA<br>DIRECT LIFTING                                           | BOĞUMLU<br>KALDIRMA<br>HITCH LIFTING | β      |        |         | UP TO 45° | 45°-60° | 45° DÜZ<br>KALDIRMA<br>D. LIFTING                                           | 45° BOĞUMLU<br>KALDIRMA<br>H. LIFTING | 45° -60° DÜZ<br>KALDIRMA<br>D. LIFTING | 45° -60° BOĞUMLU<br>KALDIRMA<br>H. LIFTING |
|             |                |                                                                               |                                                                             |                                      | 0°-7°  | 7°-45° | 45°-60° |           |         |                                                                             |                                       |                                        |                                            |
|             |                |                                                                               |                                                                             |                                      |        |        |         |           |         |                                                                             |                                       |                                        |                                            |
|             |                |                                                                               | 1.0                                                                         | 0.8                                  | 2.0    | 1.4    | 1.0     | 0.7       | 0.5     | 1.4                                                                         | 1.120                                 | 1.000                                  | 0.800                                      |
| SPS1        | Mor            |                                                                               | 1.000                                                                       | 0.800                                | 2.000  | 1.400  | 1.000   | 0.700     | 0.500   | 1.400                                                                       | 1.120                                 | 1.000                                  | 0.800                                      |
| SPS2        | Yeşil          |                                                                               | 2.000                                                                       | 1.600                                | 4.000  | 2.800  | 2.000   | 1.400     | 1.000   | 2.800                                                                       | 2.240                                 | 2.000                                  | 1.600                                      |
| SPS3        | Sarı           |                                                                               | 3.000                                                                       | 2.400                                | 6.000  | 4.200  | 3.000   | 2.100     | 1.500   | 4.200                                                                       | 3.360                                 | 3.000                                  | 2.400                                      |
| SPS4        | Gri            |                                                                               | 4.000                                                                       | 3.200                                | 8.000  | 5.600  | 4.000   | 2.800     | 2.000   | 5.600                                                                       | 4.480                                 | 4.000                                  | 3.200                                      |
| SPS5        | Kırmızı        |                                                                               | 5.000                                                                       | 4.000                                | 10.000 | 7.000  | 5.000   | 3.500     | 2.500   | 7.000                                                                       | 5.600                                 | 5.000                                  | 4.000                                      |
| SPS6        | Kahverengi     |                                                                               | 6.000                                                                       | 4.800                                | 12.000 | 8.400  | 6.000   | 4.200     | 3.000   | 8.400                                                                       | 6.720                                 | 6.000                                  | 4.800                                      |
| SPS8        | Mavi           |                                                                               | 8.000                                                                       | 6.400                                | 16.000 | 11.200 | 8.000   | 5.600     | 4.000   | 11.200                                                                      | 8.960                                 | 8.000                                  | 6.400                                      |
| SPS10       | Turuncu        |                                                                               | 10.000                                                                      | 8.000                                | 20.000 | 14.000 | 10.000  | 7.000     | 5.000   | 14.000                                                                      | 11.200                                | 10.000                                 | 8.000                                      |
| SPS20       | Turuncu        |                                                                               | 20.000                                                                      | 16.000                               | 40.000 | 28.000 | 20.000  | 14.000    | 10.000  | 28.000                                                                      | 22.400                                | 20.000                                 | 16.000                                     |





## NYLON / FIBER / POLYPROPYLEN ROPES



ŞENOL MAKİNA



## NAYLON/KENDİR/POLİPROPİLEN HALATLAR NYLON/FIBER/POLYPROPYLEN/ROPES

### ► 8 KOLLU POLİPROPİLEN HALATLAR 8 STANDARDS POLYPROPYLEN ROPES

| KOD<br>CODE | HALAT ÇAPİ<br>ROPE DIAMETER<br>(mm) | ÇEVRE<br>CIRCLE<br>(INCH) | AĞIRLIK / 100 m<br>WEIGHT /<br>100 m<br>(kg) | KOPMA<br>KUVVETİ<br>BREAKING<br>LOAD<br>(kg) |
|-------------|-------------------------------------|---------------------------|----------------------------------------------|----------------------------------------------|
| HBH40       | 40                                  | 5                         | 79.1                                         | 28.400                                       |
| HBH48       | 48                                  | 6                         | 114.5                                        | 39.800                                       |
| HBH56       | 56                                  | 7                         | 156                                          | 52.800                                       |
| HBH64       | 64                                  | 8                         | 203.6                                        | 68.200                                       |
| HBH72       | 72                                  | 9                         | 258                                          | 85.800                                       |
| HBH80       | 80                                  | 10                        | 319                                          | 105.600                                      |
| HBH88       | 88                                  | 11                        | 386                                          | 127.600                                      |
| HBH96       | 96                                  | 12                        | 459                                          | 149.600                                      |
| HBH104      | 104                                 | 138                       | 536                                          | 175.600                                      |

### ► 3 KOLLU POLİPROPİLEN HALATLAR 8 STANDARDS POLYPROPYLEN ROPES

| KOD<br>CODE | HALAT ÇAPİ<br>ROPE DIAMETER<br>(mm) | KOPMA KUVVETİ<br>BREAKING<br>LOAD<br>(kg) | AĞIRLIK / 100 m<br>WEIGHT / 100 m<br>(kg) |
|-------------|-------------------------------------|-------------------------------------------|-------------------------------------------|
| NH6         | 6                                   | 27                                        | 1.7                                       |
| NH8         | 8                                   | 45                                        | 3                                         |
| NH10        | 10                                  | 73                                        | 4.5                                       |
| NH12        | 12                                  | 95                                        | 6.5                                       |
| NH14        | 14                                  | 135                                       | 9                                         |
| NH16        | 16                                  | 183                                       | 11.5                                      |
| NH18        | 18                                  | 210                                       | 14.8                                      |
| NH20        | 20                                  | 260                                       | 18                                        |
| NH22        | 22                                  | 330                                       | 22                                        |
| NH24        | 24                                  | 426                                       | 26                                        |
| NH26        | 26                                  | 550                                       | 30.5                                      |
| NH28        | 28                                  | 640                                       | 35.5                                      |
| NH32        | 32                                  | 835                                       | 46                                        |



### ► İPEK HALATLAR SILK ROPES

| KOD<br>CODE | HALAT ÇAPİ<br>ROPE DIAMETER<br>(mm) | KOPMA KUVVETİ<br>BREAKING<br>LOAD<br>(kg) | AĞIRLIK<br>WEIGHT<br>g/m |
|-------------|-------------------------------------|-------------------------------------------|--------------------------|
| İH6         | 6                                   | 780                                       | 27                       |
| İH8         | 8                                   | 1300                                      | 45                       |
| İH10        | 10                                  | 2200                                      | 73                       |
| İH12        | 12                                  | 3200                                      | 95                       |
| İH14        | 14                                  | 4600                                      | 135                      |
| İH16        | 16                                  | 6500                                      | 183                      |
| İH18        | 18                                  | 7700                                      | 210                      |
| İH20        | 20                                  | 8500                                      | 260                      |
| İH22        | 22                                  | 10200                                     | 330                      |
| İH24        | 24                                  | 12250                                     | 426                      |
| İH26        | 26                                  | 14400                                     | 550                      |



### ► DOĞAL LİFLİ HALATLAR NATURAL FIBER ROPES

| KOD<br>CODE | HALAT ÇAPİ<br>ROPE DIAMETER<br>(mm) | KOPMA KUVVETİ<br>BREAKING<br>LOAD<br>(kg) | AĞIRLIK / 200 m<br>WEIGHT /<br>200 m<br>(kg) |
|-------------|-------------------------------------|-------------------------------------------|----------------------------------------------|
| KH6         | 6                                   | 220                                       | 5.30                                         |
| KH8         | 8                                   | 380                                       | 9.40                                         |
| KH10        | 10                                  | 580                                       | 14.70                                        |
| KH12        | 12                                  | 810                                       | 21.10                                        |
| KH14        | 14                                  | 1070                                      | 28.80                                        |
| KH16        | 16                                  | 1380                                      | 37.60                                        |
| KH18        | 18                                  | 1710                                      | 47.60                                        |
| KH20        | 20                                  | 2090                                      | 59.00                                        |
| KH22        | 22                                  | 2490                                      | 71.00                                        |
| KH24        | 24                                  | 2930                                      | 85.00                                        |
| KH26        | 26                                  | 3390                                      | 99.00                                        |



# Ropsen



## Hidrolik Çelik Halat Baskı Presleri

Hydraulic Swaging Machines



**HİDROLİK ÇELİK HALAT BASKI PRESLERİ**  
HYDRAULIC SWAGING MACHINES



ŞENOL MAKİNA



Roþsen

## ROPSEN HALAT BASKI MAKİNALARI ve YÜZÜKLER ROPSEN HYDRAULIC SWAGING MACHINES AND FERRULES

CRESCENT 150



CRESCENT 300



CRESCENT 600



### ► TEKNİK ÖZELLİKLER TECHNICAL DETAILS

| MODEL | KONTROL ÜNİTESİ<br>CONTROL UNIT                                                                                       | KAPASİTE<br>CAPACITY | MAKSİMUM STROK<br>MAX. STROKE | HİDROLİK MOTOR GÜCÜ<br>HYDRAULIC ENGINE POWER |
|-------|-----------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------|-----------------------------------------------|
| C150  | Otomatik ve Manuel Çalışma Seçeneği<br>Automatic and Manuel Working Options                                           | 150 Ton              | 45 mm                         | 5,5 KW                                        |
| C300  | PLC Dijital Ara yüzü, Otomatik ve Manuel Çalışma Seçeneği<br>PLC Digital System, Automatic and Manuel Working Options | 300 Ton              | 60 mm                         | 7,5 KW                                        |
| C600  | PLC Dijital Ara yüzü, Otomatik ve Manuel Çalışma Seçeneği<br>PLC Digital System, Automatic and Manuel Working Options | 600 Ton              | 100 mm                        | 11 KW                                         |
| H1100 | PLC Dijital Ara yüzü, Otomatik ve Manuel Çalışma Seçeneği<br>PLC Digital System, Automatic and Manuel Working Options | 1100 Ton             | 145 mm                        | 22 KW                                         |

# ROPSEN HALAT BASKI MAKİNALARI ve YÜZÜKLER ROPSEN HYDRAULIC SWAGING MACHINES AND FERRULES



ŞENOL MAKİNA

► HALAT BASKI YAĞI SPLICING LUBRICANT

H 1100



## YÜKSEK PERFORMANS İÇİN GELİŞTİRİLMİŞ ÖZEL FORMÜL

- Kusursuz baskı performansı
- Uzun ürün & kalıp ömrü
- Yüzüklerin yapışmasını önler
- Yapılan testler %20'ye varan daha düşük kuvvetle baskı yapılabildiğini kanıtlamıştır.
- Perfect swaging performance
- Long life time for product and dies
- Avoiding the sticking ferrules
- Up to 20% less load to complete swaging operations

| HİDROLİK YAĞ KAPASİTESİ<br>HYDRAULIC OIL CAPACITY | AYAK PEDALI<br>FOOT SWITCH | YAKLAŞIK AĞIRLIK<br>WEIGHT (APPROX.) | STANDART YÜZÜK BASKI KALIPLARI EN 13411-3<br>STANDART FERRULES SWAGING DIES EN 13411-3 |
|---------------------------------------------------|----------------------------|--------------------------------------|----------------------------------------------------------------------------------------|
| 58 Lt.                                            | ✓                          | 790 Kgs.                             | 2 - 16 mm<br>(2, 3, 4, 5, 6, 8, 10, 12, 14, 16 mm)                                     |
| 75 Lt.                                            | ✓                          | 1200 Kgs.                            | 3 - 26 mm<br>(3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26 mm)                    |
| 400 Lt.                                           | ✓                          | 4500 Kgs.                            | 6 - 36 mm<br>(6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36 mm)         |
| 600 Lt.                                           | ✓                          | 7000 Kgs.                            | 26 - 52 mm<br>(26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 48, 52, mm)                     |



Ropsen

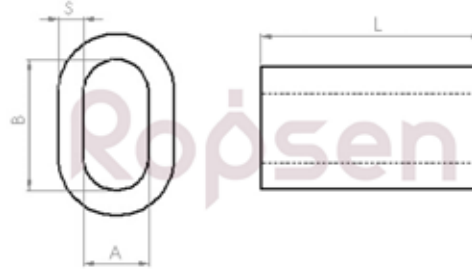
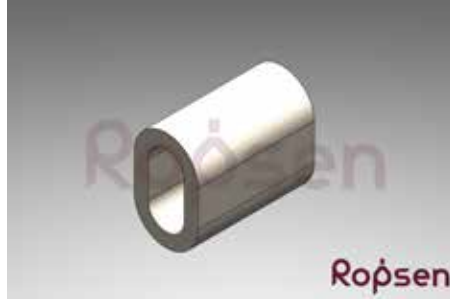


ŞENOL MAKİNA



## ROPSEN HALAT BASKI MAKİNALARI ve YÜZÜKLER ROPSEN HYDRAULIC SWAGING MACHINES AND FERRULES

► ALUMİNYUM PRES BASKI YÜZÜKLERİ EN 13411-3 ALUMINIUM FERRULES EN 13411-3



| KOD<br>CODE | HALAT<br>ÇAPI<br>Wire Dia<br>(mm) | A<br>(mm) | B<br>(mm) | S<br>(mm) | L<br>(mm) | AĞIRLIK / 100 Adet<br>Weight/100 pcs<br>(kg) |
|-------------|-----------------------------------|-----------|-----------|-----------|-----------|----------------------------------------------|
| YZK2        | 2                                 | 2,2       | 4,4       | 0,85      | 7         | 0,024                                        |
| YZK2,5      | 2,5                               | 2,7       | 5,4       | 1,05      | 9         | 0,050                                        |
| YZK3        | 3                                 | 3,3       | 6,6       | 1,25      | 11        | 0,084                                        |
| YZK3,5      | 3,5                               | 3,8       | 7,6       | 1,5       | 13        | 0,132                                        |
| YZK4        | 4                                 | 4,4       | 8,8       | 1,7       | 14        | 0,18                                         |
| YZK4,5      | 4,5                               | 4,9       | 9,8       | 1,9       | 16        | 0,26                                         |
| YZK5        | 5                                 | 5,5       | 11,0      | 2,1       | 18        | 0,36                                         |
| YZK6        | 6                                 | 6,6       | 13,2      | 2,5       | 21        | 0,59                                         |
| YZK6,5      | 6,5                               | 7,2       | 14,4      | 2,7       | 23        | 0,75                                         |
| YZK7        | 7                                 | 7,8       | 15,6      | 2,9       | 25        | 0,95                                         |
| YZK8        | 8                                 | 8,8       | 17,6      | 3,3       | 28        | 1,37                                         |
| YZK9        | 9                                 | 9,9       | 19,8      | 3,7       | 32        | 1,98                                         |
| YZK10       | 10                                | 10,9      | 21,8      | 4,1       | 35        | 2,64                                         |
| YZK11       | 11                                | 12,1      | 24,2      | 4,5       | 39        | 3,58                                         |
| YZK12       | 12                                | 13,2      | 26,4      | 4,9       | 42        | 4,58                                         |
| YZK13       | 13                                | 14,2      | 28,4      | 5,4       | 46        | 5,97                                         |
| YZK14       | 14                                | 15,3      | 30,6      | 5,8       | 49        | 7,35                                         |
| YZK16       | 16                                | 17,5      | 35        | 6,7       | 56        | 11,1                                         |
| YZK18       | 18                                | 19,6      | 39,2      | 7,6       | 63        | 15,9                                         |
| YZK20       | 20                                | 21,7      | 43,4      | 8,4       | 70        | 21,7                                         |

| KOD<br>CODE | HALAT<br>ÇAPI<br>Wire Dia<br>(mm) | A<br>(mm) | B<br>(mm) | S<br>(mm) | L<br>(mm) | AĞIRLIK / 100 Adet<br>Weight/100 pcs<br>(kg) |
|-------------|-----------------------------------|-----------|-----------|-----------|-----------|----------------------------------------------|
| YZK22       | 22                                | 24,3      | 48,6      | 9,2       | 77        | 29,2                                         |
| YZK24       | 24                                | 26,4      | 52,8      | 10        | 84        | 37,6                                         |
| YZK26       | 26                                | 28,5      | 57,0      | 10,9      | 91        | 48                                           |
| YZK28       | 28                                | 31,0      | 62,0      | 11,7      | 98        | 60                                           |
| YZK30       | 30                                | 33,1      | 66,2      | 12,5      | 105       | 74                                           |
| YZK32       | 32                                | 35,2      | 70,4      | 13,4      | 112       | 90                                           |
| YZK34       | 34                                | 37,8      | 75,6      | 14,2      | 119       | 108                                          |
| YZK36       | 36                                | 39,8      | 79,6      | 15,0      | 126       | 128                                          |
| YZK38       | 38                                | 41,9      | 83,8      | 15,8      | 133       | 149                                          |
| YZK40       | 40                                | 44,0      | 88,0      | 16,6      | 140       | 173                                          |
| YZK42       | 42                                | 46,2      | 92,4      | 17,5      | 147       | 202                                          |
| YZK44       | 44                                | 48,4      | 96,8      | 18,3      | 154       | 231                                          |
| YZK46       | 46                                | 50,6      | 101,2     | 19,2      | 161       | 255                                          |
| YZK48       | 48                                | 52,8      | 105,6     | 20,0      | 168       | 301                                          |
| YZK50       | 50                                | 55,0      | 110       | 20,8      | 175       | 340                                          |
| YZK52       | 52                                | 57,2      | 114,4     | 21,6      | 182       | 381                                          |
| YZK54       | 54                                | 59,4      | 118,8     | 22,5      | 189       | 412                                          |
| YZK56       | 56                                | 61,6      | 123,2     | 23,3      | 196       | 477                                          |
| YZK58       | 58                                | 63,8      | 127,6     | 24,2      | 203       | 520                                          |
| YZK60       | 60                                | 66,0      | 132       | 25        | 210       | 588                                          |



**YÜK TESTİ & SERTİFİKA TAKİP PROGRAMI**  
LOAD TEST & CERTIFICATE TRACKING PROGRAM





ŞENOL MAKİNA



## ÇEKME TEST MAKİNASI HYDRAULIC TEST BENCH

### EN SIK TEST YAPILAN ÜRÜNLER

- Tüm Kaldırma & Taşıma Ekipmanları
- Çelik Halat & Sapanlar
- Zincir & Zincir Sapanlar
- Polyester ve Sentetik Sapanlar
- Sapan Halkaları, Kilitler & Kancalar
- Ceraskallar & Hubzuglar
- Makaralar...

### OFTENLY TESTS AS

- All Lifting Equipments
- Steel Wire Ropes & Slings
- Chains & Chain Slings
- Polyester & Synthetic Slings
- Master Link, Shackles & Hooks
- Chain & Lever Blocks
- Rope Pulleys & Snatch Blocks ...

**MAX.  
450T  
30M**

| KAPASİTE<br>Capacity | PİSTON<br>UZUNLUĞU<br>Stroke<br>Length | TEST<br>UZUNLUĞU<br>Test<br>Length | MİN. - MAX.<br>TEST YÜKÜ<br>Min. - Max.<br>Test Load | UZAMA<br>RAPORLAMA<br>ARALIĞI<br>Elongation<br>Period | KAPAK AÇMA VE<br>KAPAMA KONTROLÜ<br>Cover<br>Operation | KONTROL<br>SİSTEMİ<br>Control<br>System | İŞLETİM<br>SİSTEMİ<br>Operation<br>System |
|----------------------|----------------------------------------|------------------------------------|------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| 450 TON              | 1500 mm                                | 30 METRE<br>(MAX)                  | 0.1-450 TON                                          | OPSİYONEL<br>(MIN 100 KG)<br>Optional                 | HİDROLİK<br>Hydraulic                                  | DİJİTAL<br>Digital                      | PLC KONTROL<br>Plc<br>Control             |

### GENEL ÖZELLİKLER General Information

PLC Kontroller Sayesinde Uzama Katsayılarını Hesaplayabilme, Çevrimiçi Erişim İmkânı, Dokunmatik Ekran, Anlık Olarak Yük-Uzama ve Yük-Zaman Grafikleri, Test Sonunda Anlık Rapor, TSE Tarafından Yıllık Kalibrasyon, Sertifika Takip Programı Entegrasyonu.  
Elongation Calculation, Online Accessibility, Touchscreen Control System, Instantly Load-Elongation And Load-Time Graphs, Report At The End Of The Test Operation, Annual Calibration By TSE.





ŞENOL MAKİNA

## SERTİFİKA TAKİP PROGRAMI CERTIFICATE TRACKING PROGRAM

Şenol Makina Mobil Uygulaması ile  
Yük Testi ve Sertifikalandırma İşlemleri Artık Çok Daha Kolay  
Load Test And Certification Process Are  
Much Easier Now With Şenol Makina Mobile App



Yükünüz ağır ve hangi ekipmanın kullanılması gerektiğinden emin değilsiniz?  
Loads are heavy and you are not sure which equipment you should use?



Veriler, mobil uygulamamız sayesinde hızlı ve güvenilir bir şekilde istediğiniz an elinizin altında!  
Fast and reliable access to your certificates regardless of time and place via our mobile app!

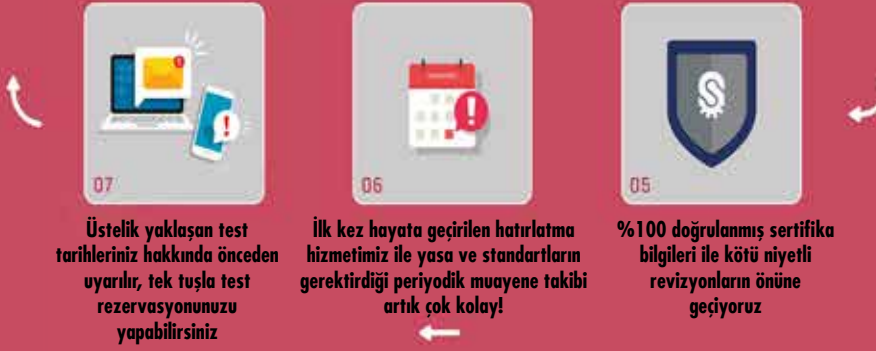
ÇEVİRİMİÇİ SERTİFİKA ERIŞİMİ  
Online Certificate Access

DOĞRULANMIŞ VERİLER  
Approved Informations



TEK TUŞLA TEST REZERVASYONU  
Test Reservation With One Click

TEST TARİHİ HATIRLATMA  
Test Date Reminder



Üstelik yaklaşan test tarihleriniz hakkında önceden uyarılır, tek tuşla test rezervasyonunuzu yapabilirsiniz

İlk kez hayata geçirilen hatırlatma hizmetimiz ile yasa ve standartların gerektirdiği periyodik muayene takibi artık çok kolay!

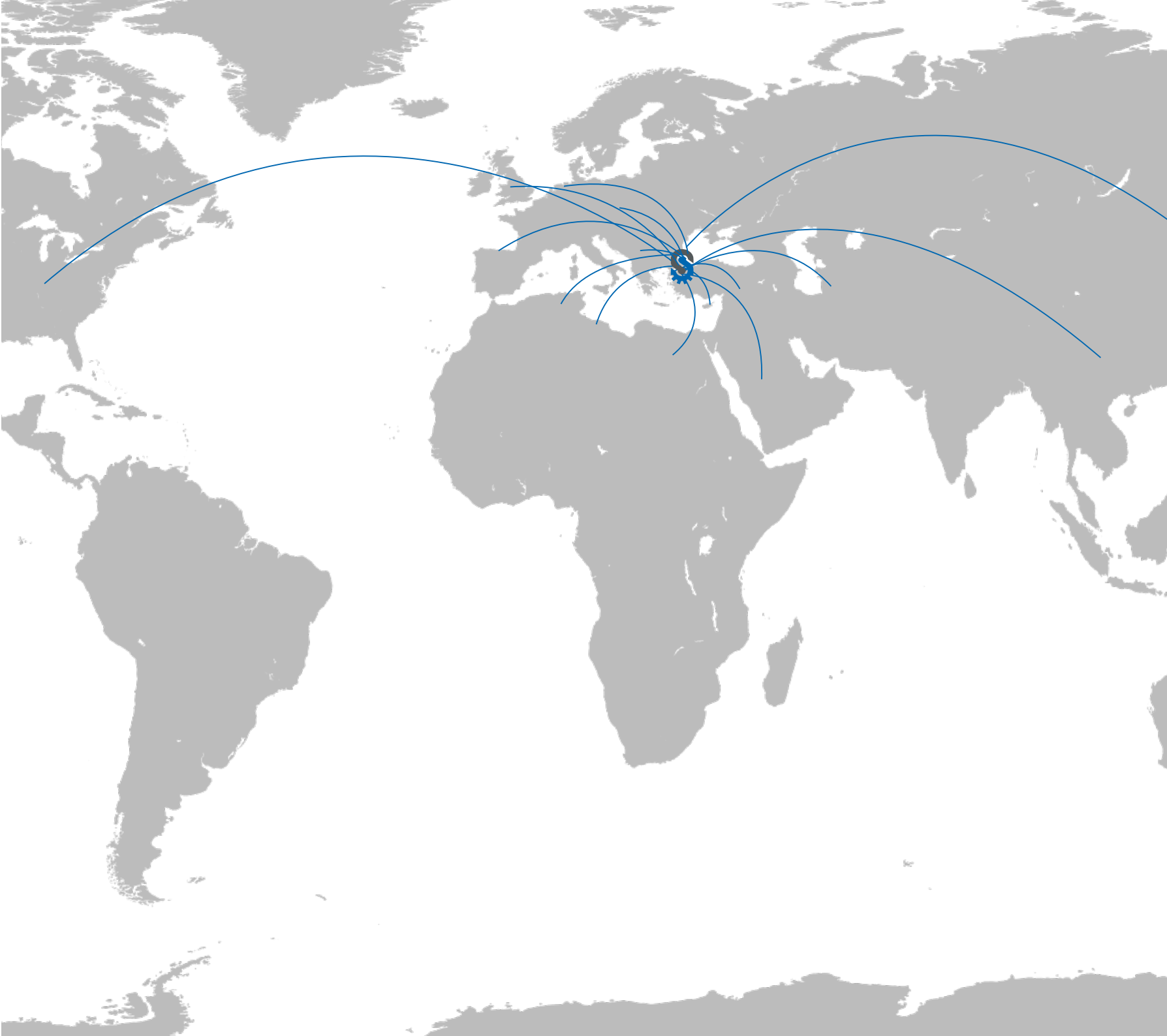
%100 doğrulanmış sertifika bilgileri ile kötü niyetli revizyonların önüne geçiyoruz

Moreover, you can learn your test validation dates in advance and make a reservation with a single click

Reminder Service makes easier to follow periodic inspections dates which is required by standards and laws!

Pirate revisions are prevented with 100% verified informations





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## **REFERANSLAR VE BELGELER**

REFERENCES AND CERTIFICATES



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## REFERANSLAR VE BELGELER REFERENCES AND CERTIFICATES



**BOĞAZ KÖPRÜLERİ BÜYÜK BAKIM ONARIMI**  
MAJOR REPAIRS OF BOSPHORUS AND FSM BRIDGES



**YAVUZ SULTAN SELİM KÖPRÜSÜ İNŞAASI**  
YAVUZ SULTAN SELİM BRIDGE PROJECT



**OSMAN GAZİ KÖPRÜSÜ İNŞAASI**  
OSMAN GAZİ BRIDGE PROJECT



**KUZAY MARMARA DOĞALGAZ DEPOLAMA  
TESİSİ İNŞAASI**  
NORTHERN MARMARA GAS RESERVOIR FACILITY



**İSTANBUL YERALTI ULAŞIM PROJELERİ**  
İSTANBUL SUBWAY PROJECTS



**MILGEM PROJELERİ**  
MILGEM PROJECTS



## REFERANSLAR VE BELGELER REFERENCES AND CERTIFICATES



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**AKKUYU NÜKLEER ENERJİ SANTRALİ İNŞAASI**  
AKKUYU NUCLEER POWER PLANT PROJECT



**VIA MARİN TUZLA**  
VIA MARİN TUZLA



**UK ASKERİ HAVA ÜSSÜ**  
UK AIR CRAFT BASE



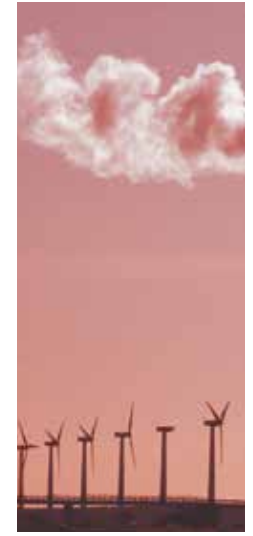
**TUNUS AMFİ TİYATRO**  
TUNUSIA AMPHI THEATRE



**MEDINE HAVA LIMANI PROJESİ**  
MEDINAH AIRPORT



**STADYUM PROJELERİ**  
STADIUM PROJECTS





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## REFERANSLAR VE BELGELER REFERENCES AND CERTIFICATES



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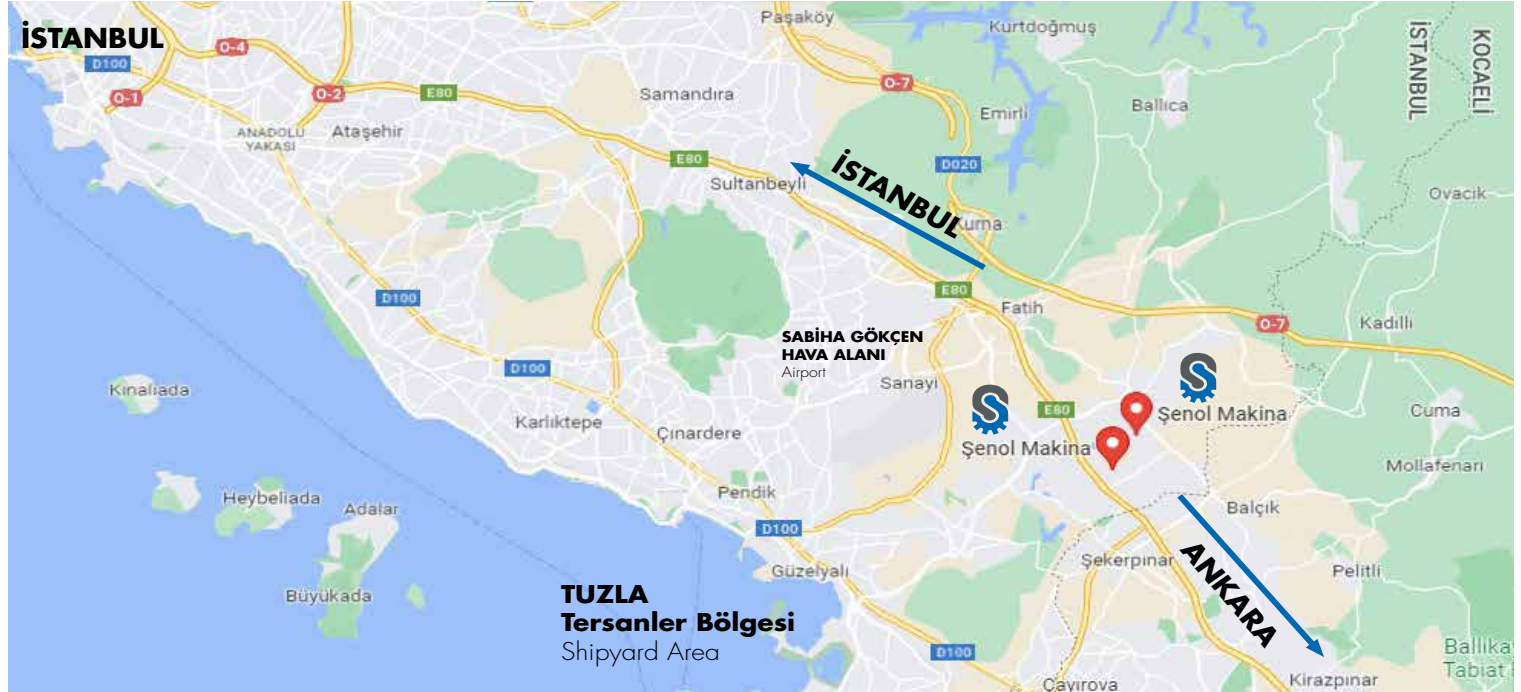




ŞENOL MAKİNA



## İLETİŞİM CONTACT



### ► SATIŞ MERKEZİ SALES POINT

| ADRES<br>ADDRESS  | Orta Mh. Olcay Sk. No:6<br>Tuzla / İSTANBUL - TÜRKİYE |
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