

# ÇELİK HALAT AKSESUARLARI

*WIRE ROPE ACCESSORIES*

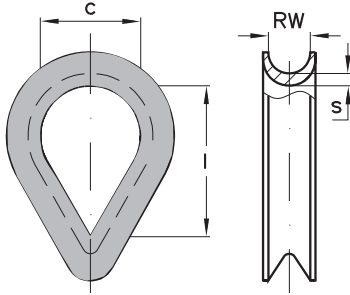




### RADANSA DIN 3090 (EN 13411-1) / THIMBLE Acc. to DIN 3090 (EN 13411-1)

Sıcak daldırma galvanizli, ağır işler için

Hot dip galvanized, heavy duty

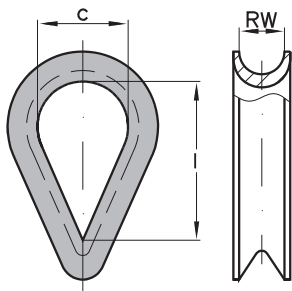


| Halat Çapı<br>Rope Dia. | RW | c   | l   | s   | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|-------------------------|----|-----|-----|-----|--------------------------------------------|-----------------------|
| mm                      | mm | mm  | mm  | mm  | kg                                         |                       |
| 4                       | 5  | 10  | 20  | 2,1 | 1,3                                        | 110 110 004           |
| 6                       | 7  | 15  | 30  | 2,6 | 2,6                                        | 110 110 006           |
| 8                       | 9  | 20  | 40  | 4   | 6,5                                        | 110 110 008           |
| 10                      | 11 | 25  | 50  | 5   | 16,0                                       | 110 110 010           |
| 12                      | 13 | 30  | 60  | 6   | 23,8                                       | 110 110 012           |
| 14                      | 16 | 35  | 70  | 7   | 29,5                                       | 110 110 014           |
| 16                      | 18 | 40  | 80  | 8   | 48,2                                       | 110 110 016           |
| 18                      | 20 | 45  | 90  | 9   | 64,9                                       | 110 110 018           |
| 20                      | 22 | 50  | 100 | 10  | 86,5                                       | 110 110 020           |
| 22                      | 24 | 55  | 110 | 10  | 105,8                                      | 110 110 022           |
| 24                      | 26 | 60  | 120 | 11  | 131,2                                      | 110 110 024           |
| 26                      | 29 | 65  | 130 | 12  | 215,8                                      | 110 110 026           |
| 28                      | 31 | 70  | 140 | 12  | 256,1                                      | 110 110 028           |
| 32                      | 35 | 80  | 160 | 14  | 371,0                                      | 110 110 032           |
| 36                      | 40 | 90  | 180 | 16  | 435,0                                      | 110 110 036           |
| 40                      | 44 | 100 | 200 | 18  | 782,0                                      | 110 110 040           |
| 44                      | 48 | 110 | 220 | 20  | 948,5                                      | 110 110 044           |
| 48                      | 53 | 120 | 240 | 22  | 1165,0                                     | 110 110 048           |
| 52                      | 57 | 130 | 260 | 25  | 1617,0                                     | 110 110 052           |
| 56                      | 62 | 140 | 280 | 25  | 1703,0                                     | 110 110 056           |

### RADANSA DIN 6899 BF / THIMBLE Acc. to DIN 6899 BF

Sıcak daldırma galvanizli, hafif işler

Hot dip galvanized, light duty



| RW | c   | l   | s    | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|----|-----|-----|------|--------------------------------------------|-----------------------|
| mm | mm  | mm  | mm   | kg                                         |                       |
| 3  | 12  | 19  | 1,2  | 0,5                                        | 110 310 003           |
| 4  | 13  | 21  | 1,2  | 0,8                                        | 110 310 004           |
| 5  | 14  | 23  | 1,7  | 1                                          | 110 310 005           |
| 6  | 16  | 25  | 2,2  | 1,6                                        | 110 310 006           |
| 7  | 18  | 28  | 2,2  | 1,9                                        | 110 310 007           |
| 8  | 20  | 32  | 2,7  | 3                                          | 110 310 008           |
| 10 | 24  | 38  | 2,9  | 4,7                                        | 110 310 010           |
| 12 | 28  | 45  | 3,2  | 6,8                                        | 110 310 012           |
| 14 | 32  | 51  | 3,5  | 10                                         | 110 310 014           |
| 16 | 36  | 58  | 3,8  | 14,5                                       | 110 310 016           |
| 18 | 40  | 64  | 4,2  | 19                                         | 110 310 018           |
| 20 | 45  | 72  | 5,2  | 29                                         | 110 310 020           |
| 22 | 50  | 80  | 5,2  | 32                                         | 110 310 022           |
| 24 | 56  | 90  | 6,2  | 50                                         | 110 310 024           |
| 26 | 62  | 99  | 6,5  | 59                                         | 110 310 026           |
| 28 | 70  | 112 | 7,3  | 82                                         | 110 310 028           |
| 30 | 75  | 120 | 8    | 100                                        | 110 310 030           |
| 32 | 80  | 128 | 8    | 130                                        | 110 310 032           |
| 34 | 95  | 152 | 8    | 160                                        | 110 310 034           |
| 36 | 100 | 160 | 8    | 170                                        | 110 310 036           |
| 38 | 110 | 176 | 8,5  | 180                                        | 110 310 038           |
| 40 | 115 | 184 | 10,5 | 275                                        | 110 310 040           |
| 42 | 120 | 192 | 10,5 | 300                                        | 110 310 042           |
| 45 | 150 | 240 | 10,5 | 350                                        | 110 310 045           |
| 50 | 160 | 245 | 12   | 540                                        | 110 310 050           |
| 60 | 170 | 260 | 12   | 740                                        | 110 310 060           |
| 65 | 180 | 300 | 13   | 830                                        | 110 310 065           |
| 75 | 200 | 330 | 15   | 1300                                       | 110 310 075           |



# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES

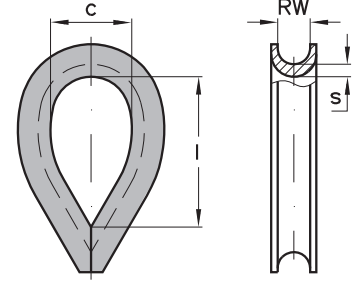


### RADANSA DIN 83311 / THIMBLE Acc. to DIN 83311

Sıcak daldırma galvanizli

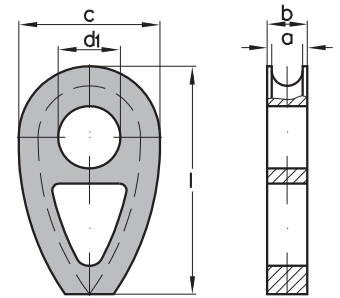
Hot dip galvanized

| Ölçü<br>Size | RW | c   | l         | s    | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|--------------|----|-----|-----------|------|--------------------------------------------|-----------------------|
|              | mm | mm  | approx.mm | mm   | kg                                         |                       |
| 0,4          | 8  | 20  | 36        | 3    | 4,5                                        | 110 610 004           |
| 0,6          | 11 | 28  | 50        | 4    | 9,5                                        | 110 610 006           |
| 1            | 13 | 32  | 60        | 5    | 18                                         | 110 610 010           |
| 1,6          | 15 | 38  | 68        | 6    | 24                                         | 110 610 016           |
| 2            | 17 | 42  | 76        | 7    | 38                                         | 110 610 020           |
| 2,5          | 19 | 48  | 85        | 8    | 50                                         | 110 610 025           |
| 3            | 21 | 53  | 95        | 9    | 70                                         | 110 610 030           |
| 4            | 24 | 60  | 110       | 10   | 110                                        | 110 610 040           |
| 5            | 28 | 70  | 125       | 10,5 | 141                                        | 110 610 050           |
| 6            | 30 | 75  | 135       | 12   | 254                                        | 110 610 060           |
| 8            | 34 | 85  | 150       | 13   | 282                                        | 110 610 080           |
| 10           | 38 | 95  | 170       | 15   | 418                                        | 110 610 100           |
| 12           | 42 | 105 | 190       | 16   | 513                                        | 110 610 120           |
| 16           | 46 | 115 | 205       | 16   | 550                                        | 110 610 160           |
| 20           | 50 | 125 | 225       | 18   | 930                                        | 110 610 200           |
| 25           | 56 | 140 | 250       | 20   | 1303                                       | 110 610 250           |
| 31           | 62 | 155 | 280       | 21   | 1363                                       | 110 610 310           |



### DOLU RADANSA DIN 3091 / SOLID THIMBLE Acc. to DIN 3091

| Halat Çapı<br>Rope Dia. | a  | b    | d <sub>1</sub> *<br>Standard Diameter | Max. d <sub>1</sub><br>Max. Diameter | c   | l   | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|-------------------------|----|------|---------------------------------------|--------------------------------------|-----|-----|------------------------------------|-----------------------|
| mm                      | mm | mm   | mm                                    | mm                                   | mm  | mm  | kg                                 |                       |
| 8                       | 9  | 15   | 14                                    | 20                                   | 40  | 66  | 0,181                              | 110 910 008           |
| 10                      | 11 | 17,5 | 18                                    | 25                                   | 50  | 82  | 0,318                              | 110 910 010           |
| 12                      | 13 | 20   | 21                                    | 30                                   | 60  | 98  | 0,515                              | 110 910 012           |
| 14                      | 16 | 23,5 | 25                                    | 35                                   | 70  | 114 | 0,799                              | 110 910 014           |
| 16                      | 18 | 26   | 28                                    | 40                                   | 80  | 130 | 0,895                              | 110 910 016           |
| 18                      | 20 | 28,5 | 31                                    | 45                                   | 90  | 145 | 1,211                              | 110 910 018           |
| 20                      | 22 | 31   | 35                                    | 50                                   | 100 | 161 | 1,61                               | 110 910 020           |
| 22                      | 24 | 33,5 | 38                                    | 55                                   | 110 | 177 | 2,11                               | 110 910 022           |
| 24                      | 26 | 36   | 41                                    | 60                                   | 120 | 193 | 2,71                               | 110 910 024           |
| 26                      | 29 | 39,5 | 44                                    | 65                                   | 130 | 209 | 3,55                               | 110 910 026           |
| 28                      | 31 | 42   | 47                                    | 70                                   | 140 | 224 | 4,2                                | 110 910 028           |
| 32                      | 35 | 47   | 53                                    | 80                                   | 160 | 256 | 6,3                                | 110 910 032           |
| 36                      | 40 | 53   | 59                                    | 90                                   | 180 | 288 | 8,84                               | 110 910 036           |
| 40                      | 44 | 58   | 65                                    | 100                                  | 200 | 320 | 11,0                               | 110 910 040           |
| 44                      | 48 | 63   | 70                                    | 110                                  | 220 | 352 | 15,0                               | 110 910 044           |
| 48                      | 53 | 69   | 76                                    | 120                                  | 240 | 384 | 20,0                               | 110 910 048           |
| 52                      | 57 | 74   | 81                                    | 130                                  | 260 | 416 | 25,0                               | 110 910 052           |
| 56                      | 62 | 80   | 86                                    | 140                                  | 280 | 448 | 32,0                               | 110 910 056           |
| 64                      | 70 | 90   | 95                                    | 160                                  | 320 | 512 | 46,0                               | 110 910 064           |
| 72                      | 79 | 101  | 104                                   | 180                                  | 360 | 576 | 66,0                               | 110 910 072           |
| 80                      | 88 | 112  | 112                                   | 200                                  | 400 | 640 | 90,0                               | 110 910 080           |



\* Dolu radansalar, aksi belirtilmedikçe, "d<sub>1</sub>" standard delik çapı ile temin edilir. Müşterinin isteğine göre daha geniş çaplı delik açılabilir. (Max. d<sub>1</sub>). Ancak vaktinden önce oluşabilecek kırılma ve zararlardan ötürü mesuliyet kabul edilmez.

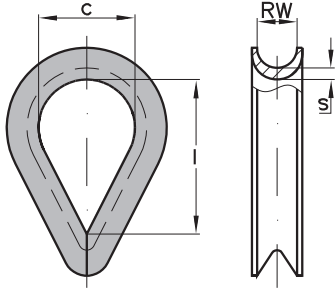
\* The solid thimbles are supplied with a standard diameter "d<sub>1</sub>" (without additional machining), unless other requirements are specified on the order sheet. Should the customer request a larger eye diameter than the above specified max. "d<sub>1</sub>", we are not responsible for any premature breaking of the product or damage of any kind.



### RADANSA FF-T-276 b Tip III / THIMBLE Acc. to Fed. Spec. FF-T-276 b Type III

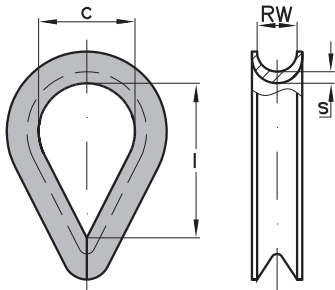
Sıcak daldırma galvanizli

Hot dip galvanized

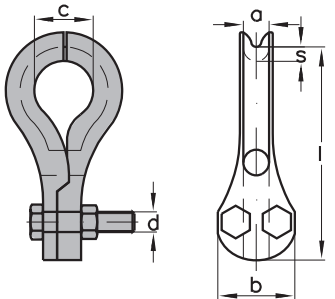


| Ölçü<br>Size  | Halat Çapı<br>Rope Dia. | RW   | c    | l    | s    | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|---------------|-------------------------|------|------|------|------|--------------------------------------------|-----------------------|
| inch          | mm                      | mm   | mm   | mm   | mm   | kg                                         |                       |
| 1/4           | 6-7                     | 7,1  | 22,2 | 41,4 | 1,52 | 3,00                                       | 110 276 006           |
| 5/16          | 8                       | 8,6  | 26,9 | 47,8 | 2,03 | 5,35                                       | 110 276 008           |
| 3/8           | 9-10                    | 10,4 | 28,7 | 54,0 | 2,79 | 9,8                                        | 110 276 010           |
| 7/16          | 11-12                   | 11,9 | 31,8 | 60,5 | 3,30 | 15,7                                       | 110 276 011           |
| 1/2           | 13-15                   | 13,5 | 38,1 | 70,0 | 3,65 | 23,1                                       | 110 276 013           |
| 5/8           | 16                      | 16,8 | 44,5 | 82,5 | 4,04 | 34,3                                       | 110 276 016           |
| 3/4           | 18-20                   | 19,8 | 51,0 | 95,5 | 5,59 | 72                                         | 110 276 019           |
| 7/8           | 22                      | 23,9 | 57,0 | 108  | 5,59 | 81                                         | 110 276 022           |
| 1             | 24-26                   | 26,9 | 63,5 | 114  | 6,35 | 142                                        | 110 276 026           |
| 1 1/8 - 1 1/4 | 28-32                   | 33,3 | 73,0 | 130  | 6,35 | 181                                        | 110 276 032           |
| 1 1/4 - 1 3/4 | 32-35                   | 36,7 | 89,0 | 165  | 9,65 | 368                                        | 110 276 035           |
| 1 3/8 - 1 1/2 | 35-38                   | 39,6 | 89,0 | 159  | 12,7 | 587                                        | 110 276 038           |
| 1 5/8         | 40                      | 43,7 | 102  | 203  | 12,7 | 771                                        | 110 276 040           |
| 1 3/4         | 44                      | 46,7 | 114  | 229  | 12,7 | 805                                        | 110 276 044           |
| 1 7/8 - 2     | 48-52                   | 53,0 | 152  | 305  | 12,7 | 1259                                       | 110 276 052           |
| 2 1/4         | 56                      | 60,5 | 178  | 356  | 16,0 | 1792                                       | 110 276 056           |

### PLASTİK RADANSA / NYLON THIMBLE



| RW | c  | l  | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|----|----|----|--------------------------------------------|-----------------------|
| mm | mm | mm | kg                                         |                       |
| 3  | 6  | 9  | 0,04                                       | 111 110 003           |
| 4  | 9  | 13 | 0,06                                       | 111 110 004           |
| 6  | 12 | 18 | 0,18                                       | 111 110 006           |
| 7  | 14 | 21 | 0,27                                       | 111 110 007           |
| 9  | 20 | 29 | 0,46                                       | 111 110 009           |
| 12 | 24 | 42 | 1,00                                       | 111 110 012           |
| 13 | 26 | 45 | 1,26                                       | 111 110 013           |
| 16 | 30 | 49 | 1,70                                       | 111 110 016           |
| 18 | 36 | 53 | 2,80                                       | 111 110 018           |



### KELEPÇE ve RADANSA KOMBİNASYONU / COMBINATION CLIP AND THIMBLE

Gövde döküm, sıcak daldırma galvaniz

Body hot dip galvanized, made of malleable iron

| Ölçü<br>Size | Halat Çapı<br>Rope Dia. | a    | b    | c    | d    | l   | s    | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|--------------|-------------------------|------|------|------|------|-----|------|--------------------------------------------|-----------------------|
| inch         | mm                      | mm   | mm   | mm   | mm   | mm  | mm   | kg                                         |                       |
| 1/4          | 6                       | 6,0  | 25,7 | 21,7 | M 6  | 67  | 5,4  | 12,5                                       | 111 210 006           |
| 3/8          | 10                      | 12,2 | 37,0 | 30,8 | M 10 | 100 | 8,1  | 37,4                                       | 111 210 010           |
| 1/2          | 12                      | 15,2 | 47,6 | 42,0 | M 12 | 152 | 11,3 | 85,0                                       | 111 210 012           |
| 5/8          | 16                      | 19,0 | 60,6 | 51,5 | M 16 | 186 | 14,2 | 166,0                                      | 111 210 016           |
| 3/4          | 20                      | 25,0 | 76,0 | 67,3 | M 20 | 241 | 17,8 | 365,0                                      | 111 210 020           |





# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES

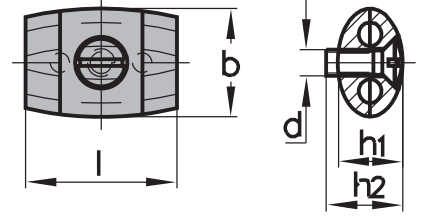


### DEKORATİF KELEPÇE / PEAR-SHAPED WIRE ROPE CLIP

Galvanizli

Galvanized

| Halat Çapı<br>Rope Dia. | b  | d   | h <sub>1</sub> | h <sub>2</sub> | l  | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|-------------------------|----|-----|----------------|----------------|----|--------------------------------------------|-----------------------|
| mm                      | mm |     | mm             | mm             | mm | kg                                         |                       |
| 2                       | 15 | M 5 | 11             | 13             | 28 | 2,0                                        | 122 220 002           |
| 3                       | 15 | M 5 | 12             | 13             | 28 | 2,1                                        | 122 220 003           |
| 4                       | 20 | M 6 | 14             | 18             | 34 | 3,9                                        | 122 220 004           |
| 5                       | 21 | M 6 | 15             | 18             | 34 | 4,0                                        | 122 220 005           |
| 6                       | 25 | M 6 | 15             | 18             | 35 | 4,8                                        | 122 220 006           |

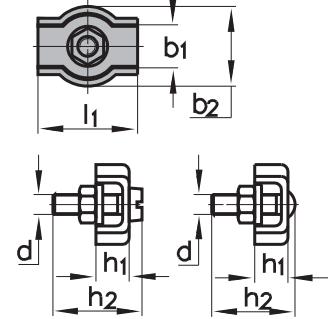


### TEKLİ KLİPS KELEPÇE / SIMPLEX CLIP SINGLE BOX-TYPE

Galvanizli

Galvanized

| Halat Çapı<br>Rope Dia. | b <sub>1</sub> | b <sub>2</sub> | d   | h <sub>1</sub> | h <sub>2</sub> | l <sub>1</sub> | Ambalaj<br>Adedi<br>Box/Bag | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|-------------------------|----------------|----------------|-----|----------------|----------------|----------------|-----------------------------|--------------------------------------------|-----------------------|
| mm                      | mm             | mm             |     | mm             | mm             | mm             |                             | kg                                         |                       |
| 2                       | 4              | 12             | M 4 | 5              | 14             | 15             | 100                         | 0,46                                       | 121 920 002           |
| 3                       | 6              | 14             | M 4 | 7              | 14             | 17             | 100                         | 0,72                                       | 121 920 003           |
| 4                       | 8              | 18             | M 5 | 7              | 18             | 20             | 100                         | 1,27                                       | 121 920 004           |
| 5                       | 10             | 20             | M 5 | 8              | 18             | 25             | 100                         | 1,46                                       | 121 920 005           |
| 6                       | 12             | 24             | M 6 | 9              | 23             | 30             | 100                         | 2,52                                       | 121 920 006           |
| 8                       | 17             | 30             | M 8 | 13             | 25             | 37             | 50                          | 5,42                                       | 121 920 008           |

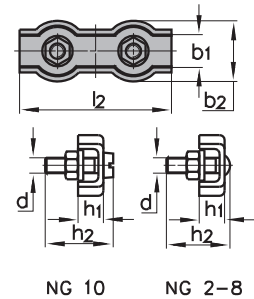


### İKİLİ KLİPS KELEPÇE / DUBLEX CLIP DOUBLE BOX-TYPE

Galvanizli

Galvanized

| Halat Çapı<br>Rope Dia. | b <sub>1</sub> | b <sub>2</sub> | d   | h <sub>1</sub> | h <sub>2</sub> | l <sub>2</sub> | Ambalaj<br>Adedi<br>Box/Bag | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|-------------------------|----------------|----------------|-----|----------------|----------------|----------------|-----------------------------|--------------------------------------------|-----------------------|
| mm                      | mm             | mm             |     | mm             | mm             | mm             |                             | kg                                         |                       |
| 2                       | 4              | 12             | M 4 | 5              | 14             | 30             | 100                         | 0,97                                       | 122 020 002           |
| 3                       | 6              | 14             | M 4 | 7              | 14             | 35             | 100                         | 1,41                                       | 122 020 003           |
| 4                       | 8              | 18             | M 5 | 7              | 18             | 40             | 100                         | 2,45                                       | 122 020 004           |
| 5                       | 10             | 20             | M 5 | 8              | 18             | 50             | 100                         | 2,91                                       | 122 020 005           |
| 6                       | 12             | 24             | M 6 | 9              | 23             | 60             | 100                         | 5,00                                       | 122 020 006           |
| 8                       | 17             | 30             | M 8 | 13             | 25             | 75             | 50                          | 10,63                                      | 122 020 008           |
| 10                      | 21             | 35             | M10 | 16             | 32             | 95             | 50                          | 17,13                                      | 122 020 010           |

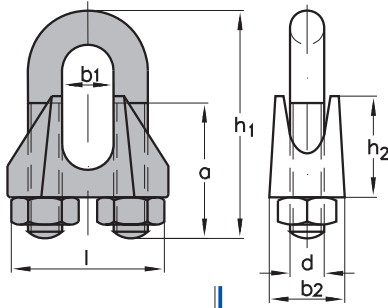




### KELEPÇE DIN 741 / WIRE ROPE CLIP DIN 741

Galvanizli

Galvanized

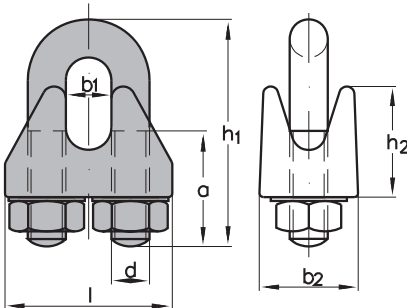


| Halat Çapı<br>Rope Dia. | Max. Halat Çapı<br>Max. Rope Ø | a  | b <sub>1</sub> | b <sub>2</sub> | d    | h <sub>1</sub> | h <sub>2</sub> | l   | Ambalaj Adedi<br>Box/Bag | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|-------------------------|--------------------------------|----|----------------|----------------|------|----------------|----------------|-----|--------------------------|--------------------------------------------|-----------------------|
| mm inch                 | mm                             | mm | mm             | mm             | mm   | mm             | mm             | mm  |                          | kg                                         |                       |
| 3 1/8                   | 3                              | 12 | 4              | 10             | M 4  | 20             | 10             | 21  | 100                      | 0,7                                        | 121 720 003           |
| 5 3/16                  | 5                              | 13 | 6              | 11             | M 5  | 24             | 10             | 23  | 100                      | 1,5                                        | 121 720 005           |
| 6,5 1/4                 | 6,5                            | 15 | 8              | 12             | M 5  | 28             | 11             | 26  | 100                      | 1,9                                        | 121 720 006           |
| 8 5/16                  | 8                              | 19 | 9              | 14             | M 6  | 34             | 15             | 30  | 100                      | 3,2                                        | 121 720 008           |
| 10 3/8                  | 10                             | 22 | 11             | 18             | M 8  | 42             | 17             | 34  | 50                       | 6,6                                        | 121 720 010           |
| 11 7/16                 | 11                             | 22 | 12             | 19             | M 8  | 44             | 18             | 36  | 50                       | 7,1                                        | 121 720 011           |
| 13 1/2                  | 13                             | 30 | 14             | 23             | M 10 | 55             | 21             | 42  | 25                       | 12,5                                       | 121 720 013           |
| 14 9/16                 | 14                             | 30 | 15             | 23             | M 10 | 57             | 22             | 44  | 200                      | 14,0                                       | 121 720 014           |
| 16 5/8                  | 16                             | 33 | 17             | 26             | M 12 | 63             | 26             | 50  | 100                      | 20,5                                       | 121 720 016           |
| 19 3/4                  | 19                             | 38 | 20             | 29             | M 12 | 75             | 30             | 54  | 100                      | 30,8                                       | 121 720 019           |
| 22 7/8                  | 22                             | 44 | 23             | 33             | M 14 | 85             | 34             | 61  | 50                       | 35,7                                       | 121 720 022           |
| 26 1                    | 26                             | 45 | 27             | 35             | M 14 | 95             | 37             | 65  | 50                       | 56,9                                       | 121 720 026           |
| 30 1 1/8                | 30                             | 50 | 32             | 37             | M 16 | 110            | 43             | 74  | 25                       | 61,8                                       | 121 720 030           |
| 34 1 1/4                | 34                             | 55 | 36             | 42             | M 16 | 120            | 50             | 80  | 25                       | 86,8                                       | 121 720 034           |
| 40 1 1/2                | 40                             | 60 | 42             | 45             | M 16 | 140            | 55             | 88  | 25                       | 109,0                                      | 121 720 040           |
| 45 1 3/4                | 45                             | 65 | 47             | 49             | M 18 | 165            | 65             | 112 | -                        | 148,0                                      | 121 720 045           |
| 50 2                    | 50                             | 67 | 54             | 51             | M 18 | 170            | 67             | 121 | -                        | 195,0                                      | 121 720 050           |

### KELEPÇE TS EN 13411-5 TİP A (DIN 1142-TS 6207) / WIRE ROPE CLIP TS EN 13411-5 TYPE A (DIN 1142)

Galvanizli

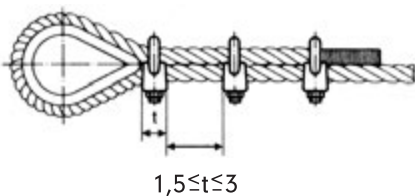
Galvanized



| Halat Çapı<br>Rope Dia. | a  | b <sub>1</sub> | b <sub>2</sub> | d    | h <sub>1</sub> | h <sub>2</sub> | l   | Ambalaj Adedi<br>Box/Bag | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|-------------------------|----|----------------|----------------|------|----------------|----------------|-----|--------------------------|--------------------------------------------|-----------------------|
| mm                      | mm | mm             | mm             | mm   | mm             | mm             | mm  |                          | kg                                         |                       |
| 5                       | 13 | 7              | 13             | M 5  | 25             | 13             | 25  | 100                      | 2,1                                        | 121 820 005           |
| 6,5                     | 17 | 8              | 16             | M 6  | 32             | 14             | 30  | 100                      | 4,0                                        | 121 820 006           |
| 8                       | 20 | 10             | 20             | M 8  | 41             | 18             | 39  | 50                       | 8,2                                        | 121 820 008           |
| 10                      | 24 | 12             | 20             | M 8  | 46             | 21             | 40  | 50                       | 9,2                                        | 121 820 010           |
| 13                      | 30 | 15             | 28             | M 12 | 64             | 29             | 55  | 100                      | 27,5                                       | 121 820 013           |
| 16                      | 35 | 18             | 32             | M 14 | 76             | 35             | 64  | 50                       | 43,0                                       | 121 820 016           |
| 19                      | 36 | 22             | 32             | M 14 | 83             | 40             | 68  | 50                       | 49,0                                       | 121 820 019           |
| 22                      | 40 | 24             | 34             | M 16 | 96             | 44             | 74  | 50                       | 68,0                                       | 121 820 022           |
| 26                      | 50 | 26             | 38             | M 20 | 111            | 51             | 84  | 25                       | 117,0                                      | 121 820 026           |
| 30                      | 55 | 34             | 41             | M 20 | 127            | 59             | 95  | 25                       | 140,0                                      | 121 820 030           |
| 34                      | 60 | 38             | 45             | M 22 | 141            | 67             | 105 | 10                       | 213,0                                      | 121 820 034           |
| 40                      | 65 | 44             | 49             | M 24 | 159            | 77             | 117 | 10                       | 268,0                                      | 121 820 040           |

### EN 13411-5 KELEPÇELER İÇİN KULLANIM TABLOSU /

INSTRUCTIONS FOR EN 13411-5 WIRE ROPE CLIPS



| Kelepçe Ölçüsü<br>Clamp Size | Tork Kuvveti<br>Required Torque Nm | Gerekli Kelepçe Adedi<br>Required Quantity of Wire Rope Clips |
|------------------------------|------------------------------------|---------------------------------------------------------------|
| 5                            | 2,0                                | 3                                                             |
| 6,5                          | 3,5                                | 3                                                             |
| 8                            | 6,0                                | 4                                                             |
| 10                           | 9,0                                | 4                                                             |
| 13                           | 33,0                               | 4                                                             |
| 16                           | 49,0                               | 4                                                             |
| 19                           | 67,7                               | 4                                                             |
| 22                           | 107,0                              | 5                                                             |
| 26                           | 147,0                              | 5                                                             |
| 30                           | 212,0                              | 6                                                             |
| 34                           | 296,0                              | 6                                                             |
| 40                           | 363,0                              | 6                                                             |



# ÇELİK HALAT AKSESUARLARI

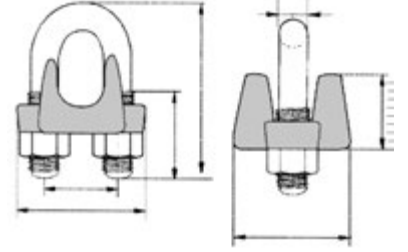
## WIRE ROPE ACCESSORIES

### KELEPÇE EN 13411-5 TİP B / WIRE ROPE CLIPS EN 13411-5 TYPE B

Sıcak daldırma galvaniz, dövme çelik SAE 1035

Hot dipped galvanized, drop forged steel SAE 1035

| Halat Çapı<br>Rope Dia. | a  | b   | c  | d  | e   | f   | g  | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|-------------------------|----|-----|----|----|-----|-----|----|--------------------------------------------|-----------------------|
| mm                      | mm | mm  | mm | mm | mm  | mm  | mm | kg                                         |                       |
| 1/4                     | 8  | 34  | 19 | 13 | 37  | 30  | 18 | 8                                          | 121 450 006           |
| 5/16                    | 10 | 45  | 22 | 19 | 43  | 33  | 19 | 14                                         | 121 450 008           |
| 3/8                     | 11 | 49  | 26 | 19 | 49  | 42  | 25 | 19                                         | 121 450 010           |
| 7/16                    | 12 | 60  | 30 | 25 | 58  | 46  | 26 | 31                                         | 121 450 011           |
| 1/2                     | 13 | 61  | 30 | 25 | 58  | 48  | 31 | 34                                         | 121 450 013           |
| 9/16                    | 14 | 72  | 33 | 32 | 63  | 52  | 31 | 36                                         | 121 450 014           |
| 5/8                     | 14 | 74  | 33 | 32 | 64  | 54  | 36 | 45                                         | 121 450 016           |
| 3/4                     | 16 | 86  | 38 | 37 | 72  | 57  | 38 | 68                                         | 121 450 020           |
| 7/8                     | 19 | 98  | 45 | 41 | 80  | 62  | 40 | 108                                        | 121 450 022           |
| 1                       | 19 | 108 | 48 | 46 | 88  | 67  | 47 | 113                                        | 121 450 026           |
| 1 1/8                   | 19 | 117 | 51 | 51 | 91  | 73  | 48 | 140                                        | 121 450 028           |
| 1 1/4                   | 22 | 130 | 59 | 54 | 105 | 79  | 56 | 207                                        | 121 450 034           |
| 1 3/8                   | 22 | 140 | 60 | 59 | 108 | 79  | 58 | 234                                        | 121 450 036           |
| 1 1/2                   | 22 | 147 | 66 | 60 | 112 | 85  | 64 | 266                                        | 121 450 040           |
| 1 5/8                   | 25 | 161 | 70 | 66 | 121 | 92  | 67 | 329                                        | 121 450 042           |
| 1 3/4                   | 29 | 174 | 78 | 70 | 134 | 97  | 76 | 441                                        | 121 450 045           |
| 2                       | 32 | 195 | 86 | 78 | 150 | 113 | 85 | 603                                        | 121 450 050           |



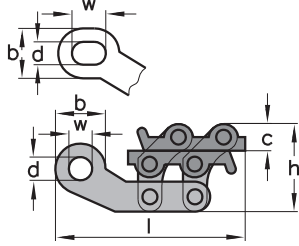
### KELEPÇE EN 13411-5 TİP B İÇİN GEREKLİ TORK KUVVETİ VE KELEPÇE SAYISI

TORQUE AND NUMBER OF CLIPS FOR EN 13411-5 TYPE B

| Ölçü<br>Nominal Size | Halat Çapı<br>Rope Diameter | Min. Kelepçe Adedi<br>Min. Quantity of Clips | Halat Bükme Payı<br>Amount of Rope to Turn Back | *Tork<br>*Torque |
|----------------------|-----------------------------|----------------------------------------------|-------------------------------------------------|------------------|
|                      | mm                          |                                              | mm                                              | Nm               |
| 1/8                  | 3-4                         | 2                                            | 85                                              | 6,1              |
| 3/16                 | 5                           | 2                                            | 95                                              | 10,2             |
| 1/4                  | 6-7                         | 2                                            | 120                                             | 20,3             |
| 5/16                 | 8                           | 3                                            | 133                                             | 40,7             |
| 3/8                  | 9-10                        | 3                                            | 165                                             | 61               |
| 7/16                 | 11-12                       | 3                                            | 178                                             | 88               |
| 1/2                  | 13                          | 3                                            | 292                                             | 88               |
| 9/16                 | 14-15                       | 3                                            | 305                                             | 129              |
| 5/8                  | 16                          | 3                                            | 305                                             | 129              |
| 3/4                  | 18-20                       | 4                                            | 460                                             | 176              |
| 7/8                  | 22                          | 4                                            | 480                                             | 305              |
| 1                    | 24-25                       | 5                                            | 660                                             | 305              |
| 1 1/8                | 28-30                       | 6                                            | 860                                             | 305              |
| 1 1/4                | 32-34                       | 7                                            | 1120                                            | 488              |
| 1 3/8                | 36                          | 7                                            | 1120                                            | 488              |
| 1 1/2                | 38-40                       | 8                                            | 1370                                            | 488              |
| 1 5/8                | 41-42                       | 8                                            | 1470                                            | 583              |
| 1 3/4                | 44-46                       | 8                                            | 1550                                            | 800              |
| 2                    | 48-52                       | 8                                            | 1800                                            | 1017             |
| 2 1/4                | 56-58                       | 8                                            | 1850                                            | 1017             |
| 2 1/2                | 62-65                       | 9                                            | 2130                                            | 1017             |
| 2 3/4                | 68-72                       | 10                                           | 2540                                            | 1017             |
| 3                    | 75-78                       | 10                                           | 2690                                            | 1627             |

\* Tork değerleri civata dişlerinin temiz, kuru ve yağdan arınmış olduğu varsayılararak verilmiştir.

\* The torque values shown are based upon the threads being clean, dry and free of lubrication.



### HALAT KAPMA /

Galvanizli, kapma kısmı kendi rengi  
4-10 yuvarlak gözlü  
16-38 oval gözlü

### ROPE TENSIONING CLIP

Galvanized, clamping parts self-coloured  
4 -10 with round hole  
16-38 with oval hole

| Ölçü<br>Size | Halat Çapı<br>Rope Dia. | Kesit Alanı<br>Rope Cross<br>Section | Max. Çekme<br>Gücü<br>Max. Load | b  | c  | d  | Kapalı<br>Closed | Açık<br>Open | Max. Ağız<br>Açıklığı<br>Opening | l   | w  | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|-------------------------|--------------------------------------|---------------------------------|----|----|----|------------------|--------------|----------------------------------|-----|----|------------------------------------|-----------------------|
|              | mm                      | mm <sup>2</sup>                      | kg                              | mm | mm | mm | h mm             | h mm         | h mm                             | mm  | mm | kg                                 |                       |
| 4            | 1-4                     | 1-16                                 | 500                             | 36 | 15 | 19 | 47               | 51           | 6,5                              | 124 | 19 | 0,25                               | 122 420 004           |
| 8            | 3-8                     | 6-35                                 | 1000                            | 47 | 21 | 20 | 76               | 82           | 10,0                             | 169 | 20 | 0,85                               | 122 420 008           |
| 10           | 5-10                    | 16-70                                | 1700                            | 44 | 24 | 18 | 80               | 88           | 12,0                             | 195 | 18 | 1,10                               | 122 420 010           |
| 16           | 8-16                    | 50-150                               | 3000                            | 54 | 25 | 30 | 83               | 97           | 19,0                             | 245 | 39 | 1,80                               | 122 420 016           |
| 26           | 12-26                   | 95-400                               | 3500                            | 62 | 31 | 29 | 107              | 130          | 26,0                             | 265 | 38 | 3,50                               | 122 420 026           |
| 38           | 20-38                   | 240-800                              | 4000                            | 62 | 36 | 29 | 126              | 153          | 40,0                             | 286 | 38 | 6,50                               | 122 420 038           |

#### GENEL BİLGİLER:

Bu tür kelepçeler çelik veya bakır halat ve kabloların güvenli ve dikkatli gerilmeleri ve taşınmalarında ideal bir üründür. Hiçbir zaman kaldırma amaçlı kullanılmaz. Bu kelepçeler yüksek kalite dövme çelikten üretilir. Sertleştirilmiş kopma çeneleri, derin ve keskin dişlere sahiptir. Germe yayları kelepçenin halatı ilave bir sabitleştirme gerektirmeden kavramasını sağlar.

Kaplama: Elektro Galvaniz, parlatılmış, koyu çeneler.

#### KULLANIM TALİMATLARI:

Ani yüklemekten kaçının. Her kullanımdan sonra çeneler ve halat temizlenmelidir. Bağlantı sırasında gres veya yağdan kaçının. Hasarlı, yıpranmış veya çatlak kelepçeler kesinlikle kullanılmamalıdır.

Kelepçe halat takıldıktan sonra kuvvet yavaşça artırılmalıdır. Tabloda verilen azami güç aşılmamalıdır. Ani yük durumlarının sebep olduğu halat kaymaları çene dişlerine zarar verir.

Gerekli olduğu durumlarda, perçinlere birkaç damla yağ konabilir. Bu durumda yağın dişlere bulaşmamasına dikkat ediniz.

#### GENERAL REMARKS

Rope tensioning clips are ideal for safe and careful tensioning or dragging of ropes, wires or cables made of steel or copper. They should not be used for lifting purposes.

The clips are forged from high quality steel. The hardened clamping shoes have sharp and deep teeth. Tension springs allow to position the clip on the rope without any additional fixing.

Finish: Electro galvanized, shining, clamping shoes browned.

#### USER INSTRUCTIONS

Avoid shock loading: Before every use the clamping shoes and rope should be cleaned. Please take care that no grease or oil is on the connection. Rope tensioning clips which are damaged or worn or which have cracks should not be used.

After the clip is put on the rope enlarge the force slowly. Do not exceed the maximum load given in the above table on the lever of the clip. Slipping wire ropes which can occur in case of loading too quickly, destroy the teeth.

In needed a few drops of oil can be put on the rivets. Take care that the oil does not get on the teeth.



# ÇELİK HALAT AKSESUARLARI WIRE ROPE ACCESSORIES



EN 1677-2

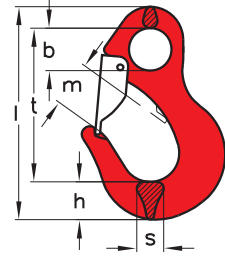
## GÖZLÜ KANCA TİP SOB / EYE HOOK TYPE SOB

Kırmızı boyalı, emniyet mandalı galvaniz

Red varnished, latch galvanized

Grade  
80

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | b  | h  | l   | m  | s  | t   | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|--------------------------------------------------|----|----|-----|----|----|-----|------------------------------------|-----------------------|
|              | kg                                               | mm | mm | mm  | mm | mm | mm  | kg                                 |                       |
| 6-8          | 1120                                             | 21 | 20 | 110 | 20 | 17 | 78  | 0,3                                | 235 130 006           |
| 7-8          | 1500                                             | 23 | 21 | 120 | 23 | 18 | 86  | 0,4                                | 235 130 007           |
| 8-8          | 2000                                             | 27 | 22 | 130 | 25 | 19 | 94  | 0,5                                | 235 130 008           |
| 10-8         | 3150                                             | 32 | 29 | 163 | 32 | 22 | 116 | 0,9                                | 235 130 010           |
| 13-8         | 5300                                             | 37 | 35 | 198 | 40 | 28 | 141 | 1,6                                | 235 130 013           |
| 16-8         | 8000                                             | 51 | 38 | 226 | 42 | 29 | 165 | 2,4                                | 235 130 016           |
| 18-8         | 10000                                            | 57 | 50 | 281 | 60 | 40 | 202 | 4,4                                | 235 130 018           |
| 19/20-8      | 12500                                            | 63 | 55 | 308 | 65 | 42 | 227 | 6,0                                | 235 130 019           |



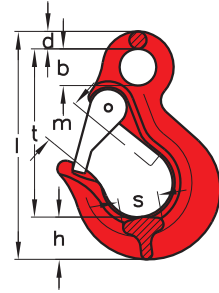
EN 1677-2

## SIKA GÖZLÜ KANCA TİP OHS / SIKA EYE SLING HOOK TYPE OHS

Kırmızı boyalı, emniyet mandalı döküm

With extra solid safety latch, red varnished

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | b  | d  | h  | l   | m  | s  | t   | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|--------------------------------------------------|----|----|----|-----|----|----|-----|------------------------------------|-----------------------|
|              | kg                                               | mm | mm | mm | mm  | mm | mm | mm  | kg                                 |                       |
| 6/7-8        | 1500                                             | 24 | 12 | 30 | 143 | 26 | 23 | 103 | 0,6                                | 232 930 006           |
| 7-8          | 1500                                             | 25 | 12 | 31 | 156 | 27 | 26 | 113 | 0,8                                | 232 930 007           |
| 8-8          | 2000                                             | 32 | 16 | 34 | 168 | 27 | 31 | 119 | 1,0                                | 232 930 008           |
| 10-8         | 3150                                             | 30 | 18 | 42 | 193 | 33 | 30 | 133 | 1,5                                | 232 930 010           |
| 13-8         | 5300                                             | 39 | 21 | 47 | 258 | 44 | 43 | 192 | 3,5                                | 232 930 013           |
| 16-8         | 8000                                             | 56 | 27 | 55 | 297 | 55 | 40 | 215 | 5,5                                | 232 930 016           |
| 18/20-8      | 12500                                            | 61 | 33 | 63 | 330 | 60 | 43 | 234 | 7,6                                | 232 930 018           |
| SH22/26-8    | 21200                                            | 55 | 35 | 75 | 345 | 70 | 62 | 235 | 10,5                               | 232 931 022           |
| TH 32-8      | 31500                                            | 96 | 48 | 83 | 541 | 95 | 80 | 410 | 30,2                               | 232 931 032           |

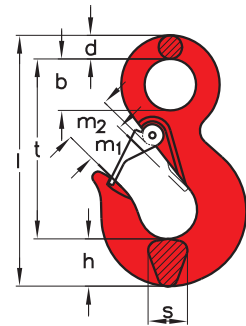


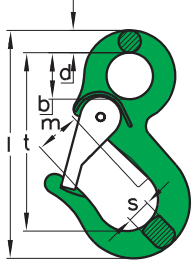
## GÖZLÜ KANCA TİP SOCS / EYE HOOK TYPE SOCS

Kırmızı boyalı

Red varnished

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | b  | d  | h  | l   | m <sub>1</sub> | m <sub>2</sub> | s  | t   | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|--------------------------------------------------|----|----|----|-----|----------------|----------------|----|-----|------------------------------------|-----------------------|
|              | kg                                               | mm | mm | mm | mm  | mm             | mm             | mm | mm  | kg                                 |                       |
| 6-8          | 1120                                             | 20 | 11 | 20 | 117 | 21             | 26             | 16 | 86  | 0,3                                | 233 131 006           |
| 7-8          | 1500                                             | 24 | 12 | 25 | 134 | 24             | 28             | 18 | 98  | 0,5                                | 233 131 007           |
| 8-8          | 2000                                             | 26 | 13 | 31 | 157 | 25             | 32             | 21 | 113 | 0,7                                | 233 131 008           |
| 10-8         | 3150                                             | 30 | 15 | 33 | 168 | 26             | 34             | 25 | 121 | 1,0                                | 233 131 010           |
| 13-8         | 5300                                             | 40 | 20 | 41 | 207 | 31             | 40             | 33 | 146 | 1,9                                | 233 131 013           |
| 16-8         | 8000                                             | 54 | 25 | 49 | 262 | 38             | 52             | 42 | 186 | 3,7                                | 233 131 016           |



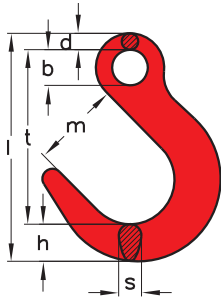


### SIKA ÖZEL KANCA TİP SPS / SIKA SPECIAL HOOK TYPE SPS

Yeşil boyalı

Green varnished

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | b  | d  | l   | m  | s  | t   | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|--------------------------------------------------|----|----|-----|----|----|-----|------------------------------------|-----------------------|
|              | kg                                               | mm | mm | mm  | mm | mm | mm  | kg                                 |                       |
| 0,5          | 500                                              | 24 | 12 | 118 | 20 | 12 | 92  | 0,3                                | 132 634 005           |
| 1            | 1000                                             | 24 | 12 | 124 | 20 | 18 | 93  | 0,5                                | 132 634 010           |
| 1,6          | 1600                                             | 26 | 13 | 140 | 24 | 18 | 105 | 0,6                                | 132 634 016           |
| 2            | 2000                                             | 26 | 13 | 141 | 24 | 18 | 107 | 0,6                                | 132 634 020           |



### EN 1677-1

### DÖKÜMCÜ KANCA TİP CWH / EYE FOUNDRY HOOK TYPE CWH

Kırmızı boyalı

Red varnished

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | b  | d    | h  | l   | m   | s  | t   | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|--------------------------------------------------|----|------|----|-----|-----|----|-----|------------------------------------|-----------------------|
|              | kg                                               | mm | mm   | mm | mm  | mm  | mm | mm  | kg                                 |                       |
| 6/7-8        | 1500                                             | 18 | 10   | 26 | 132 | 49  | 20 | 96  | 0,5                                | 233 630 006           |
| 8-8          | 2000                                             | 25 | 11,5 | 26 | 160 | 63  | 21 | 122 | 0,8                                | 233 630 008           |
| 10-8         | 3150                                             | 32 | 14   | 37 | 204 | 76  | 31 | 153 | 2,0                                | 233 630 010           |
| 13-8         | 5300                                             | 40 | 18   | 42 | 241 | 86  | 37 | 161 | 3,5                                | 233 630 013           |
| 16-8         | 8000                                             | 35 | 24   | 50 | 281 | 100 | 45 | 207 | 5,5                                | 233 630 016           |
| 18/20-8      | 12500                                            | 40 | 26   | 67 | 328 | 112 | 60 | 235 | 10,0                               | 233 630 018           |
| 22-8         | 15000                                            | 47 | 30   | 70 | 365 | 124 | 65 | 265 | 13,6                               | 233 630 022           |
| 26-8         | 21200                                            | 54 | 38   | 80 | 419 | 134 | 73 | 305 | 20,0                               | 233 630 026           |

Lütfen bu tip emniyet mandalsız kancaları kullanmak için dökümcü kancasıyla ilgili kullanım talimatları özel notlarına dikkat ediniz.

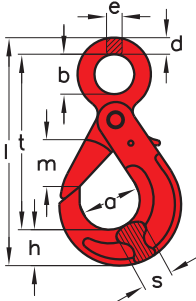
Please consider the special notes for the use of hooks without safety latch in our instruction of use forged hooks .

### EN 1677-3

### OTOMATİK KİLİTLİ GÖZLÜ KANCA TİP CLS / SAFETY EYE HOOK TYPE CLS

Kırmızı boyalı

Red varnished



| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | a   | b  | d  | e  | h  | l   | m  | s  | t   | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|--------------------------------------------------|-----|----|----|----|----|-----|----|----|-----|------------------------------------|-----------------------|
|              | kg                                               | mm  | mm | mm | mm | mm | mm  | mm | mm | mm  | kg                                 |                       |
| 6-8          | 1120                                             | 35  | 23 | 10 | 10 | 23 | 142 | 30 | 18 | 108 | 0,5                                | 233 230 006           |
| 7/8-8        | 2000                                             | 45  | 30 | 14 | 10 | 28 | 176 | 37 | 22 | 133 | 0,8                                | 233 230 007           |
| 10-8         | 3150                                             | 55  | 36 | 15 | 12 | 36 | 216 | 44 | 28 | 165 | 1,5                                | 233 230 010           |
| 13-8         | 5300                                             | 70  | 45 | 20 | 16 | 47 | 264 | 55 | 36 | 199 | 3,2                                | 233 230 013           |
| 16-8         | 8000                                             | 90  | 58 | 22 | 20 | 55 | 328 | 73 | 37 | 250 | 5,8                                | 233 230 016           |
| 18/20-8      | 12500                                            | 101 | 65 | 30 | 21 | 70 | 415 | 89 | 41 | 272 | 7,6                                | 233 230 018           |
| 22-8         | 15000                                            | 112 | 70 | 36 | 27 | 74 | 425 | 92 | 48 | 315 | 13,8                               | 233 230 022           |





# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES



### EN 1677-1

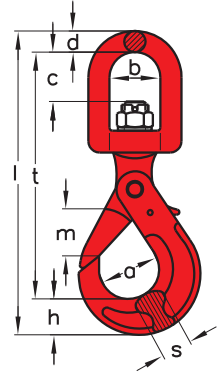
Grade  
80

#### OTOMATİK KİLİTLİ FIRDÖNDÜLÜ KANCA TİP CLW ve TİP CLN / SAFETY SWIVEL HOOK TYPE CLW and TYPE CLN

Kırmızı boyalı

Red varnished

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | a   | b  | c  | d    | h  | i   | m  | s  | t   | Birim Ağırlığı<br>Weight Per Piece | Stok No /<br>Stock No.<br>Burçlu<br>Brass Bushing | Rulmanlı<br>Ball Bearing |
|--------------|--------------------------------------------------|-----|----|----|------|----|-----|----|----|-----|------------------------------------|---------------------------------------------------|--------------------------|
|              | kg                                               | mm  | mm | mm | mm   | mm | mm  | mm | mm | mm  | kg                                 | CLW                                               | CLN                      |
| 6-8          | 1120                                             | 35  | 30 | 29 | 12   | 25 | 187 | 30 | 18 | 150 | 0,6                                | 233 232 006                                       | -                        |
| 7/8-8        | 2000                                             | 45  | 33 | 25 | 12,5 | 28 | 225 | 37 | 22 | 175 | 1,0                                | 233 232 007                                       | 233 234 007              |
| 10-8         | 3150                                             | 55  | 40 | 33 | 15   | 36 | 260 | 44 | 28 | 212 | 1,9                                | 233 232 010                                       | 233 234 010              |
| 13-8         | 5300                                             | 70  | 50 | 40 | 17   | 46 | 320 | 57 | 36 | 254 | 3,8                                | 233 232 013                                       | 233 234 013              |
| 16-8         | 8000                                             | 90  | 60 | 54 | 20   | 51 | 400 | 74 | 37 | 321 | 7,3                                | 233 232 016                                       | 233 234 016              |
| 18/20-8      | 12500                                            | 101 | 71 | 60 | 28   | 55 | 440 | 89 | 41 | 355 | 9,8                                | 233 232 018                                       | -                        |



UYARI: Sadece dik kaldırmalarda (açızsız) kullanınız. Bu kancalar yükteyken dönebilmeleri gerektiğinde rulmanlı olanları tavsiye edilir.

Warning: Use the Swivel hooks only in straight pull. If it is necessary to revolve hooks under load, we recommend the use of ball bearing hooks.

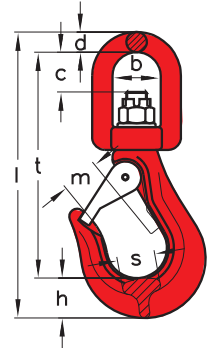
### EN 1677-2

#### SIKA FIRDÖNDÜLÜ KANCA TİP WHS / SIKA SWIVEL HOOK TYPE WHS

Burçlu veya rulmanlı

Equipped with brass bushing or ball bearing

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | l   | t   | c  | b  | d  | h  | s  | m  | Birim Ağırlığı<br>Weight Per Piece<br>Burçlu<br>Brass Bushing | Stok No.<br>Stock No. | Birim Ağırlığı<br>Weight Per Piece<br>Rulmanlı<br>Ball Bearing | Stok No.<br>Stock No. |
|--------------|--------------------------------------------------|-----|-----|----|----|----|----|----|----|---------------------------------------------------------------|-----------------------|----------------------------------------------------------------|-----------------------|
|              | kg                                               | mm  | mm  | mm | mm | mm | mm | mm | mm | kg                                                            |                       | kg                                                             |                       |
| 6-8          | 1120                                             | 177 | 137 | 25 | 34 | 13 | 27 | 21 | 19 | 0,7                                                           | 232 631 060           | 0,8                                                            | 232 630 060           |
| 7-8          | 1500                                             | 205 | 160 | 31 | 36 | 15 | 30 | 27 | 24 | 1,1                                                           | 232 631 070           | 1,2                                                            | 232 630 070           |
| 8-8          | 2000                                             | 226 | 178 | 31 | 38 | 16 | 32 | 30 | 28 | 1,3                                                           | 232 631 080           | 1,4                                                            | 232 630 080           |
| 10-8         | 3150                                             | 260 | 200 | 33 | 42 | 18 | 42 | 31 | 33 | 2,4                                                           | 232 631 100           | 2,5                                                            | 232 630 100           |
| 13-8         | 5300                                             | 352 | 281 | 55 | 64 | 24 | 47 | 42 | 44 | 5,2                                                           | 232 631 130           | 5,7                                                            | 232 630 130           |



UYARI: Sadece dik kaldırmalarda (açızsız) kullanınız. Bu kancalar yükteyken dönebilmeleri gerektiğinde rulmanlı olanları tavsiye edilir.

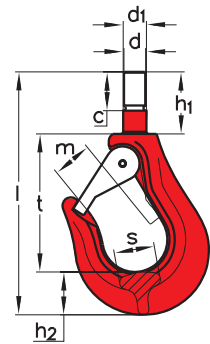
Warning: Use the Swivel hooks only in straight pull. If it is necessary to revolve hooks under load, we recommend the use of ball bearing hooks.

#### SIKA SAPLI KANCA TİP SHS / SIKA SHANK HOOK TYPE SHS

Emniyet mandalı döküm,  
Kırmızı boyalı

With extra solid safety latch,  
Red varnished

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | d      | l     | t   | c    | h <sub>1</sub> | h <sub>2</sub> | s  | m  | d <sub>1</sub> | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|--------------------------------------------------|--------|-------|-----|------|----------------|----------------|----|----|----------------|------------------------------------|-----------------------|
|              | kg                                               | thread | mm    | mm  | mm   | mm             | mm             | mm | mm | mm             | kg                                 |                       |
| 6-8          | 1120                                             | M12    | 140,0 | 75  | 25,0 | 37,0           | 27             | 21 | 19 | 12,7           | 0,4                                | 232 632 060           |
| 7-8          | 1500                                             | M14    | 161,5 | 89  | 24,5 | 39,5           | 30             | 27 | 24 | 15,0           | 0,8                                | 232 632 070           |
| 8-8          | 2000                                             | M16    | 180,0 | 101 | 28,7 | 46,0           | 32             | 30 | 28 | 17,0           | 0,9                                | 232 632 080           |
| 10-8         | 3150                                             | M20    | 210,0 | 116 | 33,0 | 51,0           | 42             | 31 | 33 | 21,3           | 1,5                                | 232 632 100           |
| 13-8         | 5300                                             | M24    | 275,0 | 152 | 49,1 | 75,0           | 47             | 42 | 44 | 25,5           | 3,3                                | 232 632 130           |

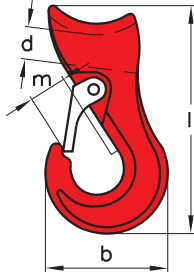


UYARI: Sadece dik kaldırmalarda (açızsız) kullanınız. Bu kancalar yükteyken dönebilmeleri gerektiğinde rulmanlı olanları tavsiye edilir.

Warning: Use the Swivel hooks only in straight pull. If it is necessary to revolve hooks under load, we recommend the use of ball bearing hooks.



**Grade  
80**



### BOĞMA KANCA / SLIDING CHOKER HOOK

Kırmızı boyalı

Red varnished

| Ölçü<br>Size                  | Halat<br>Çapı<br>Rope dia. | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | b   | d  | l   | m                      |                            | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|-------------------------------|----------------------------|--------------------------------------------------|-----|----|-----|------------------------|----------------------------|------------------------------------|-----------------------|
|                               |                            |                                                  |     |    |     | Mandallı<br>With Latch | Mandalsız<br>Without Latch |                                    |                       |
| inch                          | mm                         | kg                                               | mm  | mm | mm  | mm                     | mm                         | kg                                 |                       |
| $\frac{3}{8}$ - $\frac{1}{2}$ | 9-13                       | 1250                                             | 70  | 17 | 128 | 19                     | 25                         | 0,7                                | 133 531 010           |
| $\frac{5}{8}$                 | 14-16                      | 2000                                             | 80  | 22 | 147 | 22                     | 28                         | 1,0                                | 133 531 016           |
| $\frac{3}{4}$                 | 17-19                      | 3000                                             | 103 | 27 | 174 | 30                     | 36                         | 1,8                                | 133 531 019           |
| $\frac{7}{8}$ -1              | 20-26                      | 5000                                             | 133 | 33 | 210 | 40                     | 47                         | 3,4                                | 133 531 022           |





# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES



### EMNİYET MANDAL SETİ / SPARE PARTS

SOB/SGB için

For SOB/SGB

| Ölçü<br>Size | Stok No.<br>Stock No. | Ölçü<br>Size | Stok No.<br>Stock No. | Ölçü<br>Size | Stok No.<br>Stock No. | Ölçü<br>Size | Stok No.<br>Stock No. |
|--------------|-----------------------|--------------|-----------------------|--------------|-----------------------|--------------|-----------------------|
| 6-8          | 235 131 006           | 8-8          | 235 131 008           | 13-8         | 235 131 013           | 18-8         | 235 131 018           |
| 7-8          | 235 131 007           | 10-8         | 235 131 010           | 16-8         | 235 131 016           | 19/20-8      | 235 131 019           |



1 mandal, 1 yay ve 1 emniyet segmanından oluşur.

Consisting of 1 latch, 1 spring, 1 safety pin.

### SIKA EMNİYET MANDAL SETİ / SIKA SPARE PARTS

OHS/GHS/WHS/SHS/SPS/SGH için

For OHS/GHS/WHS/SHS/SPS/SGH

| Ölçü<br>Size | Stok No.<br>Stock No. | Ölçü<br>Size | Stok No.<br>Stock No. |
|--------------|-----------------------|--------------|-----------------------|
| 0,5+0,63=6-8 | 132 831 005           | 4            | 132 831 040           |
| 1+1,25=6/7-8 | 132 831 010           | 5=13-8       | 132 831 050           |
| 1,6=7-8      |                       | 6,3+8=16-8   |                       |
| ve/and       | 132 831 016           | ve/and       | 132 831 063           |
| 2=8-8        |                       | 10=18/20-8   |                       |
| 2,5+3,2=10-8 | 132 831 025           |              |                       |



1 mandal, 1 yay ve 1 emniyet segmanından oluşur.

Consisting of 1 latch, 1 spring, 1 safety pin.

### EMNİYET MANDAL SETİ / SPARE PARTS

SGCS/SOCS için

For SGCS/SOCS

| Ölçü<br>Size | Stok No.<br>Stock No. | Ölçü<br>Size | Stok No.<br>Stock No. |
|--------------|-----------------------|--------------|-----------------------|
| 6-8          | 233 132 006           | 10-8         | 233 132 010           |
| 7-8          | 233 132 007           | 13-8         | 233 132 013           |
| 8-8          | 233 132 008           | 16-8         | 233 132 016           |



1 mandal, 1 yay ve 1 emniyet segmanından oluşur.

Consisting of 1 latch, 1 spring, 1 safety pin.

### KANCA MANDAL KİTİ TİP CL / SPARE LATCH KITS TYPE CL

CLS/CLG/CLW için

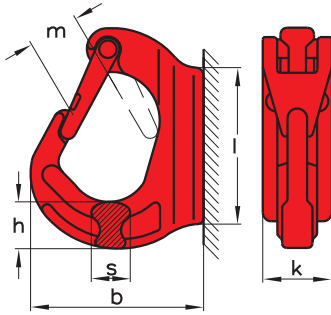
For CLS/CLG/CLW

| Ölçü<br>Size | Stok No.<br>Stock No. | Ölçü<br>Size | Stok No.<br>Stock No. |
|--------------|-----------------------|--------------|-----------------------|
| 6-8          | 233 233 006           | 13-8         | 233 233 013           |
| 7/8-8        | 233 233 007           | 16-8         | 233 233 016           |
| 10-8         | 233 233 010           | 18/20-8      | 233 233 018           |





**Grade  
80**



### EKSKAVATÖR KANCASI TİP TBA / WELD-ON HOOK TYPE TBA

Kırmızı boyalı

Red varnished

| Güvenli Çalışma Yüğü<br>Working Load Limit | b   | h  | k  | l   | m  | s  | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------------------------------------|-----|----|----|-----|----|----|------------------------------------|-----------------------|
| kg                                         | mm  | mm | mm | mm  | mm | mm | kg                                 |                       |
| 750*                                       | 57  | 20 | 20 | 75  | 18 | 14 | 0,3                                | 263 932 007           |
| 1250*                                      | 68  | 27 | 27 | 97  | 23 | 18 | 0,5                                | 263 932 012           |
| 2000                                       | 91  | 25 | 35 | 80  | 25 | 21 | 0,8                                | 263 932 020           |
| 3000                                       | 105 | 31 | 36 | 116 | 28 | 24 | 1,2                                | 263 932 030           |
| 4000                                       | 114 | 36 | 43 | 132 | 33 | 29 | 1,9                                | 263 932 040           |
| 5000                                       | 133 | 45 | 45 | 162 | 33 | 29 | 2,5                                | 263 932 050           |
| 8000                                       | 136 | 51 | 53 | 168 | 34 | 40 | 3,4                                | 263 932 080           |
| 10000                                      | 169 | 56 | 54 | 205 | 49 | 39 | 6,6                                | 263 932 100           |

Lütfen kaynak talimatını isteyiniz.

Please ask for the welding instruction

\* Kaynak için ekstra panelli

\* With curved panel for welding



### EMNİYET MANDAL SETİ / SPARE PARTS

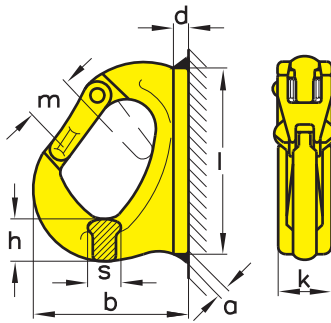
TBA için

For TBA

| Ölçü<br>Size    | Stok No.<br>Stock No. | Ölçü<br>Size    | Stok No.<br>Stock No. |
|-----------------|-----------------------|-----------------|-----------------------|
| 0,75 t          | 263 933 007           | 4 t + 5 t + 8 t | 263 933 040           |
| 1 t + 2 t + 3 t | 263 933 010           | 10 t            | 263 933 100           |

1 mandal, 1 yay ve 1 emniyet segmanından oluşur.

Consisting of 1 latch, 1 spring, 1 safety pin.



### EKSKAVATÖR KANCASI TİP UKN / WELD-ON HOOK TYPE UKN

Sarı boyalı

Yellow varnished

| Güvenli Çalışma Yüğü<br>Working Load Limit | b   | d  | h  | k  | l   | m  | s  | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------------------------------------|-----|----|----|----|-----|----|----|------------------------------------|-----------------------|
| kg                                         | mm  | mm | mm | mm | mm  | mm | mm | kg                                 |                       |
| 1250*                                      | 72  | 6  | 25 | 25 | 95  | 21 | 17 | 0,6                                | 263 930 012           |
| 3750                                       | 105 | 10 | 30 | 35 | 132 | 29 | 23 | 1,4                                | 263 930 030           |
| 5000                                       | 111 | 11 | 38 | 42 | 140 | 29 | 29 | 1,9                                | 263 930 050           |
| 6000                                       | 130 | 12 | 46 | 45 | 165 | 34 | 30 | 2,7                                | 263 930 060           |
| 10000                                      | 133 | 13 | 51 | 50 | 172 | 34 | 39 | 3,6                                | 263 930 100           |
| 12000                                      | 168 | 14 | 58 | 55 | 220 | 47 | 43 | 6,3                                | 263 930 120           |

Lütfen kaynak talimatını isteyiniz.

Please ask for the welding instruction

\* Kaynak için ekstra panelli

\* With curved panel for welding



### EMNİYET MANDAL SETİ / SPARE PARTS

UKN için

For UKN

| Ölçü<br>Size | Stok No.<br>Stock No. | Ölçü<br>Size | Stok No.<br>Stock No. |
|--------------|-----------------------|--------------|-----------------------|
| 1,25 t       | 263 931 012           | 6 t + 10 t   | 263 931 100           |
| 3 t + 5 t    | 263 931 050           | 12 t         | 263 931 120           |

1 mandal, 1 yay ve 1 emniyet segmanından oluşur.

Consisting of 1 latch, 1 spring, 1 safety pin.



# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES



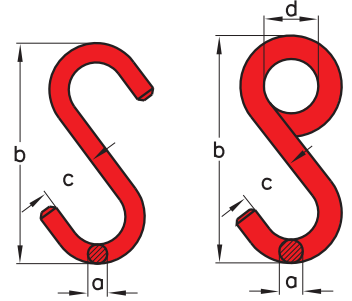
**Grade  
80**

### S-KANCA ALAŞIM ÇELİK / S-HOOK HIGH TENSILE ALLOY STEEL

Çalışma yükü damgalı, kırmızı boyalı

Stamped with working load limit, red varnished

| Güvenli Çalışma Yükü<br>Working Load Limit | a  | b   | c   | d   | Birim Ağırlığı<br>Weight Per Piece | Stok No. / Stock No. | 'S' Tip / 'S' type | Gözü / Eye Type |
|--------------------------------------------|----|-----|-----|-----|------------------------------------|----------------------|--------------------|-----------------|
| kg                                         | mm | mm  | mm  | mm  | kg                                 |                      |                    |                 |
| 200                                        | 8  | 70  | 20  | 20  | 0,1                                | 234 730 002          |                    | 234 740 002     |
| 300                                        | 10 | 80  | 25  | 25  | 0,1                                | 234 730 003          |                    | 234 740 003     |
| 500                                        | 13 | 100 | 30  | 30  | 0,2                                | 234 730 005          |                    | 234 740 005     |
| 750                                        | 16 | 130 | 40  | 40  | 0,5                                | 234 730 007          |                    | 234 740 007     |
| 1000                                       | 18 | 160 | 50  | 50  | 0,7                                | 234 730 010          |                    | 234 740 010     |
| 1250                                       | 20 | 180 | 55  | 55  | 1,0                                | 234 730 012          |                    | 234 740 012     |
| 1500                                       | 22 | 200 | 60  | 60  | 1,3                                | 234 730 015          |                    | 234 740 015     |
| 2000                                       | 26 | 220 | 65  | 65  | 2,0                                | 234 730 020          |                    | 234 740 020     |
| 3000                                       | 32 | 260 | 80  | 80  | 3,6                                | 234 730 030          |                    | 234 740 030     |
| 4000                                       | 36 | 320 | 95  | -   | 5,6                                | 234 730 040          |                    | -               |
| 5000                                       | 40 | 360 | 110 | 110 | 7,9                                | 234 730 050          |                    | 234 740 050     |
| 6000                                       | 45 | 400 | 120 | -   | 11,0                               | 234 730 060          |                    | -               |



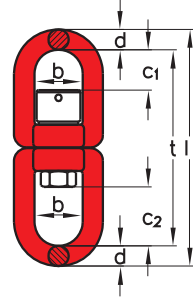
### EN 1677-1

### RULMANLI FIRDÖNDÜ TİP KLV / BALL BEARING SWIVEL TYPE KLV

Kırmızı boyalı

Red varnished

| Ölçü<br>Size | Güvenli Çalışma Yükü<br>Working Load Limit | b  | c <sub>1</sub> | c <sub>2</sub> | d  | l   | t   | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|--------------------------------------------|----|----------------|----------------|----|-----|-----|------------------------------------|-----------------------|
| kg           |                                            | mm | mm             | mm             | mm | mm  | mm  | kg                                 |                       |
| 8-8          | 2000                                       | 36 | 30             | 49             | 17 | 188 | 154 | 1,2                                | 266 761 008           |
| 10-8         | 3150                                       | 38 | 33             | 51             | 19 | 204 | 166 | 1,5                                | 266 761 010           |
| 13-8         | 5300                                       | 60 | 60             | 89             | 24 | 314 | 258 | 5,0                                | 266 761 013           |



### BAĞLAMA MAPASI TİP APA / LASHING EYE TYPE APA

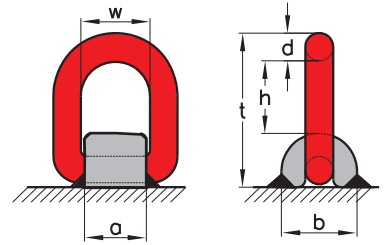
Kırmızı boyalı, kaynak montajlı

Red varnished, weld-on type

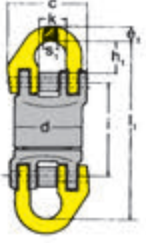
| Ölçü<br>Size | Güvenli Çalışma Yükü<br>Working Load Limit | a  | b  | d    | h    | t   | w    | Birim Ağırlığı<br>Weight Per Piece | Stok No./ Stock No.  |                          |
|--------------|--------------------------------------------|----|----|------|------|-----|------|------------------------------------|----------------------|--------------------------|
|              |                                            |    |    |      |      |     |      |                                    | Yaylı<br>With Spring | Yaysız<br>Without Spring |
|              | kg                                         | mm | mm | mm   | mm   | mm  | mm   | kg                                 |                      |                          |
| 1            | 1120                                       | 36 | 39 | 13,5 | 37   | 66  | 40,5 | 0,40                               | 263 950 010          | 263 951 010              |
| 2            | 2000                                       | 38 | 40 | 14   | 43   | 78  | 42   | 0,46                               | 263 950 020          | 263 951 020              |
| 3            | 3150                                       | 37 | 47 | 17,5 | 43   | 79  | 46   | 0,68                               | 263 950 030          | 263 951 030              |
| 5            | 5300                                       | 48 | 60 | 22   | 52,0 | 93  | 54   | 1,40                               | 263 950 050          | 263 951 050              |
| 8            | 8000                                       | 66 | 73 | 26,5 | 62   | 115 | 70   | 2,60                               | 263 950 080          | 263 951 080              |
| 15           | 15000                                      | 88 | 90 | 34,5 | 94   | 154 | 97   | 5,50                               | 263 950 150          | 263 951 150              |

Lütfen kaynak talimatını isteyiniz.

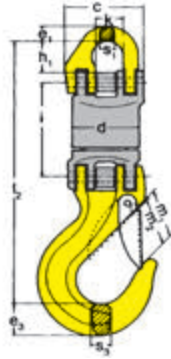
Please ask for the welding instruction



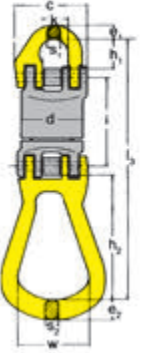




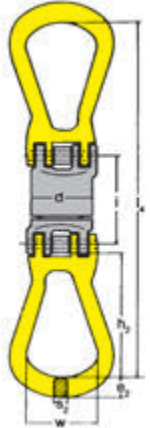
**D1**  
**İki Bağlantı Kilitli**  
*With Two Coupling Links*



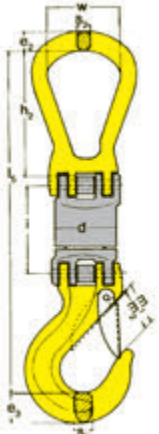
**D2**  
**Bağlantı Kilit ve Kancalı**  
*With Coupling Link and Load Hook*



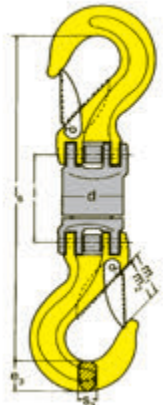
**D3**  
**Bağlantı Kilit ve Halkalı**  
*With Coupling Link and Master Link*



**D4**  
**İki Halkalı**  
*With two Master Links*



**D5**  
**Halka ve Kancalı**  
*With Master Link and Load Hook*



**D6**  
**İki Kancalı**  
*With Two Load Hooks*

### BS RULMANLI FIRDÖNDÜ / BS BALL BEARING SWIVEL

Kombine Sistem

Component System

| Ölçü<br>Size   | Ölçüler (mm) / Dimensions (mm) |         |         |         |          |
|----------------|--------------------------------|---------|---------|---------|----------|
|                | 2000 Kg                        | 3150 Kg | 5300 Kg | 8000 Kg | 12500 Kg |
| c              | 49                             | 66      | 82      | 103     | 117      |
| d              | 48                             | 59      | 75      | 90      | 104      |
| e <sub>1</sub> | 10,5                           | 13      | 17      | 20      | 24       |
| e <sub>2</sub> | 14                             | 18      | 22      | 25      | 30       |
| e <sub>3</sub> | 21                             | 29      | 36      | 43      | 50       |
| f              | 70                             | 85      | 100     | 112     | 88       |
| g              | M24                            | M30     | M36     | M42     | M45      |
| h <sub>1</sub> | 22                             | 26      | 33      | 40      | 48       |
| h <sub>2</sub> | 92                             | 118,5   | 135,5   | 163,5   | 190      |
| k              | 18                             | 25      | 29      | 36      | 43       |
| i              | 75                             | 96      | 120     | 137     | 159      |
| l <sub>1</sub> | 125                            | 155     | 197     | 231     | 269      |
| l <sub>2</sub> | 187                            | 236     | 294     | 344     | 399      |
| l <sub>3</sub> | 196                            | 248     | 298     | 354     | 414      |
| l <sub>4</sub> | 267                            | 341     | 399     | 477     | 555      |
| l <sub>5</sub> | 258                            | 329     | 395     | 467     | 540      |
| l <sub>6</sub> | 249                            | 317     | 391     | 457     | 525      |
| l <sub>7</sub> | 195                            | 248     | 297     | 354     | 406      |
| l <sub>8</sub> | 186                            | 236     | 293     | 344     | 391      |
| l <sub>9</sub> | 124                            | 155     | 196     | 231     | 265      |
| m <sub>1</sub> | 32                             | 40      | 48      | 56      | 66       |
| m <sub>2</sub> | 27                             | 34      | 42      | 49      | 59       |
| s <sub>1</sub> | 9                              | 12      | 15      | 19      | 22       |
| s <sub>2</sub> | 14                             | 18      | 22      | 25      | 30       |
| s <sub>3</sub> | 18                             | 23      | 28      | 33      | 42       |
| w              | 50                             | 66      | 72      | 82      | 105      |

| Tip<br>Type | Birim Ağırlıkları (Kg) / Weight Per Piece (kg) |         |         |         |          |
|-------------|------------------------------------------------|---------|---------|---------|----------|
|             | 2000 Kg                                        | 3150 Kg | 5300 Kg | 8000 Kg | 12500 Kg |
| D1          | 0,7                                            | 1,5     | 2,9     | 5,0     | 8,6      |
| D2          | 1,1                                            | 2,2     | 4,3     | 7,6     | 12,6     |
| D3          | 1,0                                            | 2,0     | 3,6     | 6,0     | 10,3     |
| D4          | 1,2                                            | 2,4     | 4,3     | 7,2     | 12,0     |
| D5          | 1,3                                            | 2,6     | 5,0     | 8,7     | 14,3     |
| D6          | 1,5                                            | 3,0     | 5,9     | 10,5    | 17,1     |
| D7          | 1,5                                            | 3,0     | 4,9     | 8,3     | 14,4     |
| D8          | 1,7                                            | 3,0     | 5,5     | 9,8     | 16,7     |
| D9          | 1,3                                            | 2,3     | 4,0     | 7,1     | 12,5     |

Bu rulmanlı firdöndüler yüksek mukavemetli, tavllanmış dövme çelikten imal olup, kompakt şekli ve hafifliği ile emsallerine göre üstündür. Her türlü ortamda kullanılabilir su ve toz geçirmez. Çelik halat ve zincirle kullanılabilir. Yer altında ve su altında kullanılabilir. Bakım gerektirmez.

**Önemli not:** Rulman yataklı firdöndüler sadece yalıtılmış AE 1 tip olup sarı boyalıdır. Yalıtılmış tip AE1 1.000 volt elektrikli emebilir ve elektrik akımının risk oluşturduğu durumlarda, örneğin vinç kurulumu esnasında yani kancanın kaynatılmasının kaçınılmaz olduğu durumlarda veya tersanelerdeki çalışmalarda.

These ball bearing swivels are forged from high tensile tempered steel and especially excel due to their compact size and light weight. Suitable for use in any conditions they are dust and waterproof and can be used with ropes and chains. Underground or underwater - the BS ball bearing swivel is maintenance free.

**Important note:** The ball bearing swivels are only available in an insulated type (AE 1) and yellow varnished. The insulated type can absorb 1.000 volts and is employed where an electrical current can be inadvertently passed e. g. when parts assemble with a crane hook have to be welded which is often unavoidable during installation work or in shipyards.



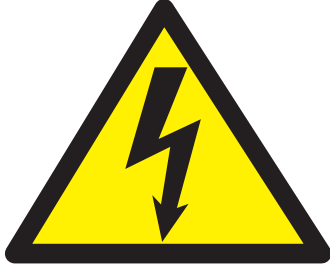


# ÇELİK HALAT AKSESUARLARI

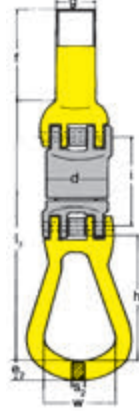
## WIRE ROPE ACCESSORIES



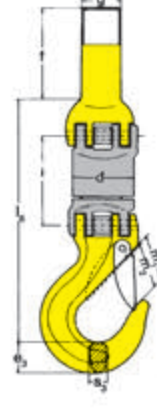
| Tip<br>Type | Stok No. / Stock No. |             |             |             |             |
|-------------|----------------------|-------------|-------------|-------------|-------------|
|             | 2000 Kg              | 3150 Kg     | 5300 Kg     | 8000 Kg     | 12500 Kg    |
| D1          | 176 661 007          | 176 661 010 | 176 661 013 | 176 661 016 | 176 661 018 |
| D2          | 176 662 007          | 176 662 010 | 176 662 013 | 176 662 016 | 176 662 018 |
| D3          | 176 663 007          | 176 663 010 | 176 663 013 | 176 663 016 | 176 663 018 |
| D4          | 176 664 007          | 176 664 010 | 176 664 013 | 176 664 016 | 176 664 018 |
| D5          | 176 665 007          | 176 665 010 | 176 665 013 | 176 665 016 | 176 665 018 |
| D6          | 176 666 007          | 176 666 010 | 176 666 013 | 176 666 016 | 176 666 018 |
| D7          | 176 667 007          | 176 667 010 | 176 667 013 | 176 667 016 | 176 667 018 |
| D8          | 176 668 007          | 176 668 010 | 176 668 013 | 176 668 016 | 176 668 018 |
| D9          | 176 669 007          | 176 669 010 | 176 669 013 | 176 669 016 | 176 669 018 |
| AE1         | 176 971 020          | 176 971 032 | 176 971 050 | 176 971 080 | 176 971 125 |
| AE2         | 176 972 020          | 176 972 032 | 176 972 050 | 176 972 080 | 176 972 125 |
| AE3         | 176 973 020          | 176 973 032 | 176 973 050 | 176 973 080 | 176 973 125 |
| AE4         | 176 974 020          | 176 974 032 | 176 974 050 | 176 974 080 | 176 974 125 |
| AE5         | 176 975 020          | 176 975 032 | 176 975 050 | 176 975 080 | 176 975 125 |
| AE6         | 176 976 020          | 176 976 032 | 176 976 050 | 176 976 080 | 176 976 125 |



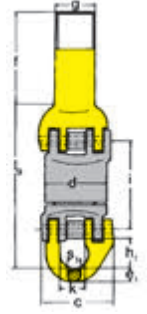
Yüksek voltaj korumalı  
Protection of high voltage



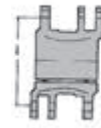
**D7**  
Saplı ve Halkalı  
With Shank Coupling  
and Master Link



**D8**  
Saplı ve Kancalı  
With Shank Coupling  
and Load Hook



**D9**  
Saplı ve Bağlantı Kilitli  
With Shank Coupling  
and Coupling Link



**AE 1**  
Ayrılabilir  
Rulmanlı Yataklar  
Ball Bearing Swivel  
Isolated



**AE 2**  
Yük Kancası  
Load Hook



**AE 3**  
Halka  
Master Link



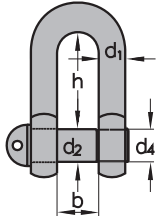
**AE 4**  
Saplı Bağlantı  
Shank Coupling



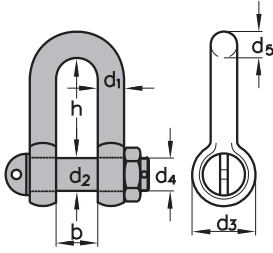
**AE 5**  
Yarımlı Bağlantı Kilitli  
Half Coupling Link



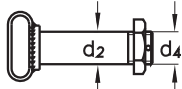
**AE 6**  
Pim ve Segman  
Bolt With Bush



Tip A / Type A  
Vidalı pimli / With eye bolt



Tip C / Type C  
Somunlu pimli / With bolt, nut and cotter pin



Ölçü 32 için pim / Bolt for size 32

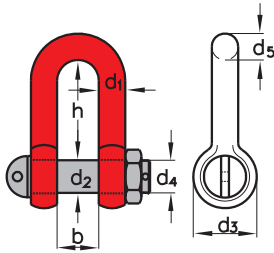
### KİLİT DIN 82101 / SHACKLE Acc. to DIN 82101

Galvanizli

Galvanized

| Ölçü / Size |       | Güvenli Çalışma Yüklü<br>Working Load Limit | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | d <sub>5</sub> | b   | h     | Birim Ağırlığı<br>Weight Per Piece |       | Stok No. / Stock No. |             |
|-------------|-------|---------------------------------------------|----------------|----------------|----------------|----------------|----------------|-----|-------|------------------------------------|-------|----------------------|-------------|
| Tip A       | Tip C | kg                                          | mm             | mm             | mm             |                | mm             | mm  | mm    | Tip A                              | Tip C | Tip A                | Tip C       |
| A           | C     | kg                                          | mm             | mm             | mm             |                | mm             | mm  | mm    | kg                                 |       |                      |             |
| 0,1         | -     | 100                                         | 4              | 5              | 10             | M 5            | 5              | 7   | 15,5  | 0,1                                | -     | 145 841 001          | -           |
| 0,16        | -     | 160                                         | 5              | 6              | 12             | M 6            | 6              | 8   | 18,0  | 0,1                                | -     | 145 841 002          | -           |
| 0,25        | -     | 250                                         | 7              | 8              | 16             | M 8            | 8              | 11  | 24,0  | 0,1                                | -     | 145 841 003          | -           |
| 0,4         | 0,4   | 400                                         | 8              | 10             | 20             | M 10           | 10             | 14  | 30,0  | 0,1                                | 0,1   | 145 841 004          | 145 445 004 |
| 0,6         | 0,6   | 630                                         | 10             | 12             | 24             | M 12           | 12             | 17  | 36,0  | 0,2                                | 0,2   | 145 841 006          | 145 445 006 |
| 1           | 1     | 1000                                        | 13             | 16             | 32             | M 16           | 15             | 21  | 49,0  | 0,4                                | 0,4   | 145 841 010          | 145 445 010 |
| 1,6         | 1,6   | 1600                                        | 17             | 20             | 40             | M 20           | 19             | 27  | 61,0  | 0,8                                | 0,8   | 145 841 016          | 145 445 016 |
| 2           | 2     | 2000                                        | 19             | 22             | 44             | M 22           | 21             | 30  | 67,0  | 1,0                                | 1,1   | 145 841 020          | 145 445 020 |
| 2,5         | 2,5   | 2500                                        | 21             | 24             | 48             | M 24           | 23             | 33  | 73,0  | 1,3                                | 1,4   | 145 841 025          | 145 445 025 |
| 3           | 3     | 3150                                        | 24             | 27             | 54             | M 27           | 26             | 38  | 83,5  | 1,9                                | 2,0   | 145 841 030          | 145 445 030 |
| 4           | 4     | 4000                                        | 27             | 30             | 60             | M 30           | 29             | 42  | 91,0  | 2,5                                | 2,7   | 145 841 040          | 145 445 040 |
| 5           | 5     | 5000                                        | 30             | 36             | 72             | M 36           | 33             | 47  | 111,0 | 4,0                                | 4,3   | 145 841 050          | 145 445 050 |
| 6           | 6     | 6300                                        | 34             | 39             | 78             | M 39           | 37             | 53  | 119,5 | 5,4                                | 5,8   | 145 841 060          | 145 445 060 |
| 8           | 8     | 8000                                        | 38             | 45             | 90             | M 45           | 41             | 60  | 139,5 | 7,9                                | 8,5   | 145 841 080          | 145 445 080 |
| 10          | 10    | 10000                                       | 42             | 48             | 96             | M 48           | 45             | 66  | 147,0 | 10,0                               | 10,8  | 145 841 100          | 145 445 100 |
| 12          | 12    | 12500                                       | 47             | 52             | 104            | M 52           | 50             | 73  | 158,0 | 13,5                               | 14,4  | 145 841 120          | 145 445 120 |
| 16          | 16    | 16000                                       | 52             | 60             | 120            | M 60           | 55             | 81  | 185,0 | 19,2                               | 20,5  | 145 841 160          | 145 445 160 |
| 20          | 20    | 20000                                       | 58             | 68             | 136            | M 68           | 61             | 90  | 211,0 | 28,0                               | 29,5  | 145 841 200          | 145 445 200 |
| 25          | 25    | 25000                                       | 63             | 72             | 144            | M 72           | 67             | 100 | 221,0 | 34,0                               | 36,0  | 145 841 250          | 145 445 250 |
| -           | 32    | 31500                                       | 70             | 80             | 160            | M 80           | 74             | 110 | 246,0 | -                                  | 49,5  | -                    | 145 445 320 |

Grade 80

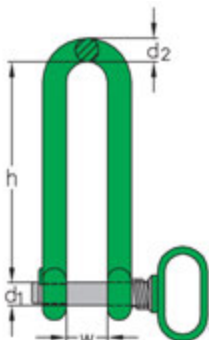


### KİLİT TİP C / SHACKLE TYPE C

Kırmızı boyalı, kalite sınıfı 8

Red varnished, grade 80

| Ölçü / Size | Güvenli Çalışma Yüğü / Working Load Limit | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | d <sub>5</sub> | b  | h   | Birim Ağırlığı / Weight Per Piece | Stok No. / Stock No. |
|-------------|-------------------------------------------|----------------|----------------|----------------|----------------|----------------|----|-----|-----------------------------------|----------------------|
| kg          | mm                                        | mm             | mm             | mm             | mm             | mm             | mm | mm  | kg                                |                      |
| 8-8         | 2000                                      | 10             | 12             | 24             | M 12           | 12             | 17 | 36  | 0,2                               | 285 940 008          |
| 10-8        | 3150                                      | 13             | 16             | 32             | M 16           | 15             | 21 | 49  | 0,4                               | 285 940 010          |
| 13-8        | 5300                                      | 17             | 20             | 40             | M 20           | 19             | 27 | 61  | 0,8                               | 285 940 013          |
| 16-8        | 8000                                      | 21             | 24             | 48             | M 24           | 23             | 33 | 73  | 1,5                               | 285 940 016          |
| 18/20-8     | 12500                                     | 27             | 30             | 60             | M 30           | 29             | 42 | 89  | 3,0                               | 285 940 018          |
| 22-8        | 15000                                     | 30             | 36             | 72             | M 36           | 33             | 47 | 111 | 4,3                               | 285 940 022          |



### KİLİT SAC KAZIKLAR İÇİN / SHACKLE FOR STEEL SHEET PILES

Kolay kitlemeli, patentli  
Yeşil boyalı, pimi boyasız

With patented quick lock  
Green varnished, bolt self-coloured

| Güvenli Çalışma Yüğü / Working Load Limit | d <sub>1</sub> | d <sub>2</sub> | w   | h   | Birim Ağırlığı / Weight Per Piece | Stok No. / Stock No. |
|-------------------------------------------|----------------|----------------|-----|-----|-----------------------------------|----------------------|
| kg                                        | mm             | mm             | mm  | mm  | kg                                |                      |
| 2500                                      | 25             | 30             | 50  | 250 | 4,8                               | 145 740 025          |
| 3000                                      | 30             | 30             | 50  | 250 | 5,0                               | 145 740 030          |
| 5000                                      | 36             | 30             | 50  | 250 | 5,9                               | 145 740 050          |
| 10000                                     | 55             | 50             | 110 | 400 | 22,5                              | 145 740 100          |



# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES



### YÜKSEK TONAJLI KİLİT /

Galvanizli, pimi mavi boyalı çalışma yükü,  
ölçüsü ve CE işareti gövde üzerinde damgalıdır

### SHACKLE, HIGH TENSILE

Galvanized, pin varnished marked with WLL, nominal size and CE-sign

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | b <sub>1</sub> | b <sub>2</sub> | h <sub>1</sub> | h <sub>2</sub> | Birim Ağırlığı<br>Weight Per Piece |       |       |        |
|--------------|--------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------------------------|-------|-------|--------|
|              |                                                  |                |                |                |                |                |                |                |                | HC1                                | HA1   | HA2   | HC2    |
| inch         | kg                                               | mm             | mm             | mm             | inch           | mm             | mm             | mm             | mm             |                                    |       |       |        |
| 1/4          | 500                                              | 6,5            | 8              | 17             | 5/16           | 12             | 20             | -              | 28             | -                                  | -     | 0,05  | -      |
| 5/16         | 750                                              | 8              | 10             | 21             | 3/8            | 13             | 21             | 26             | 31             | -                                  | 0,08  | 0,08  | -      |
| 3/8          | 1000                                             | 10             | 11             | 25             | 7/16           | 16             | 26             | 31             | 36             | -                                  | 0,13  | 0,14  | -      |
| 7/16         | 1500                                             | 11             | 13             | 27             | 1/2            | 18             | 29             | 36             | 42             | -                                  | 0,19  | 0,22  | -      |
| 1/2          | 2000                                             | 13             | 16             | 30             | 5/8            | 21             | 33             | 41             | 48             | 0,34                               | 0,31  | 0,33  | 0,37   |
| 5/8          | 3250                                             | 16             | 19             | 40             | 3/4            | 27             | 43             | 51             | 60             | 0,70                               | 0,55  | 0,65  | 0,71   |
| 3/4          | 4750                                             | 19             | 22             | 48             | 7/8            | 32             | 51             | 60             | 71             | 1,18                               | 0,96  | 0,97  | 1,27   |
| 7/8          | 6500                                             | 22             | 25             | 54             | 1              | 36             | 58             | 71             | 84             | 1,64                               | 1,40  | 1,52  | 1,78   |
| 1            | 8500                                             | 25             | 29             | 60             | 1 1/8          | 43             | 68             | 81             | 95             | 2,41                               | 2,03  | 2,39  | 2,52   |
| 1 1/8        | 9500                                             | 29             | 32             | 67             | 1 1/4          | 46             | 74             | 90             | 108            | 3,27                               | 2,97  | 3,15  | 3,53   |
| 1 1/4        | 12000                                            | 32             | 35             | 76             | 1 3/8          | 52             | 82             | 100            | 119            | 4,59                               | 4,01  | 4,32  | 5,04   |
| 1 3/8        | 13500                                            | 35             | 38             | 84             | 1 1/2          | 57             | 92             | 113            | 133            | 6,00                               | 5,40  | 5,67  | 6,84   |
| 1 1/2        | 17000                                            | 38             | 41             | 92             | 1 5/8          | 60             | 98             | 124            | 146            | 8,33                               | 7,29  | 7,79  | 8,78   |
| 1 3/4        | 25000                                            | 44             | 51             | 110            | 2              | 73             | 127            | 146            | 178            | 12,83                              | 11,25 | 12,51 | 14,09  |
| 2            | 35000                                            | 51             | 57             | 127            | 2 1/4          | 83             | 146            | 171            | 197            | 18,50                              | 16,20 | 18,50 | 20,84  |
| 2 1/2        | 55000                                            | 63             | 70             | 152            | 2 3/4          | 105            | 184            | 203            | 267            | 38,03                              | 33,30 | 37,58 | 42,30  |
| 3            | 85000                                            | 76             | 82             | 165            | 3 1/4          | 127            | 200            | 216            | 330            | 55,35                              | -     | -     | 65,25  |
| 3 1/2        | 120000                                           | 89             | 95             | 203            | 3 3/4          | 146            | 230            | 267            | 381            | 98,10                              | -     | -     | 112,50 |
| 4            | 150000                                           | 102            | 108            | 229            | 4 1/4          | 165            | 260            | 305            | 432            | 139,50                             | -     | -     | 161,50 |
| 4 3/8        | 175000                                           | 111            | 130            | 262            | 5 1/8          | 184            | 290            | -              | 464            | -                                  | -     | -     | 236,25 |

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load Limit | Stok No. / Stock No. |             |             |             |
|--------------|-----------------------------------------------|----------------------|-------------|-------------|-------------|
|              |                                               | HC1                  | HA1         | HA2         | HC2         |
| inch         | kg                                            |                      |             |             |             |
| 1/4          | 500                                           | -                    | -           | 145 542 005 | -           |
| 5/16         | 750                                           | -                    | 145 541 007 | 145 542 007 | -           |
| 3/8          | 1000                                          | -                    | 145 541 010 | 145 542 010 | -           |
| 7/16         | 1500                                          | -                    | 145 541 015 | 145 542 015 | -           |
| 1/2          | 2000                                          | 145 540 002          | 145 541 020 | 145 542 020 | 145 543 002 |
| 5/8          | 3250                                          | 145 540 003          | 145 541 032 | 145 542 032 | 145 543 003 |
| 3/4          | 4750                                          | 145 540 004          | 145 541 047 | 145 542 047 | 145 543 004 |
| 7/8          | 6500                                          | 145 540 006          | 145 541 065 | 145 542 065 | 145 543 006 |
| 1            | 8500                                          | 145 540 008          | 145 541 085 | 145 542 085 | 145 543 008 |
| 1 1/8        | 9500                                          | 145 540 009          | 145 541 095 | 145 542 095 | 145 543 009 |
| 1 1/4        | 12000                                         | 145 540 012          | 145 541 120 | 145 542 120 | 145 543 012 |
| 1 3/8        | 13500                                         | 145 540 013          | 145 541 135 | 145 542 135 | 145 543 013 |
| 1 1/2        | 17000                                         | 145 540 017          | 145 541 170 | 145 542 170 | 145 543 017 |
| 1 3/4        | 25000                                         | 145 540 025          | 145 541 250 | 145 542 250 | 145 543 025 |
| 2            | 35000                                         | 145 540 035          | 145 541 350 | 145 542 350 | 145 543 035 |
| 2 1/2        | 55000                                         | 145 540 055          | 145 541 550 | 145 542 550 | 145 543 055 |
| 3            | 85000                                         | 145 540 085          | -           | -           | 145 543 085 |
| 3 1/2        | 120000                                        | 145 540 120          | -           | -           | 145 543 120 |
| 4            | 150000                                        | 145 540 150          | -           | -           | 145 543 150 |
| 4 3/8        | 175000                                        | -                    | -           | -           | 145 543 175 |

- D4 dış ölçüsü diğer ticari somunlara uymaz.

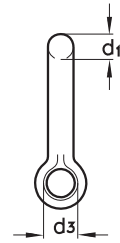
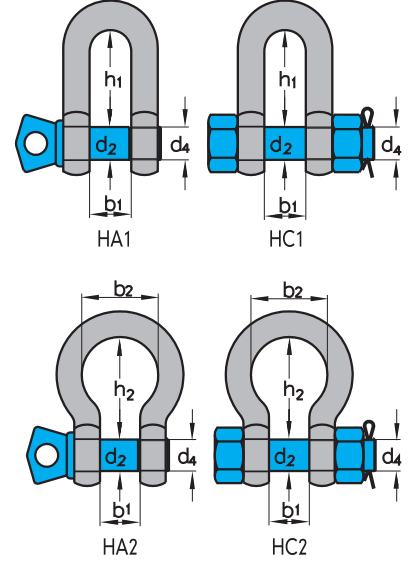
- Lütfen yüksek tonajlı kilit el kılavuzunu sorunuz.

The thread d4 can not be assembled with the commercial European threads.

Please, ask for the instruction manual for high tensile shackles.

Yeni kilitlerimizin  
emniyet katsayısı  
6'ya çıkarılmıştır.

safety factor  
changed to 6  
for new shackles



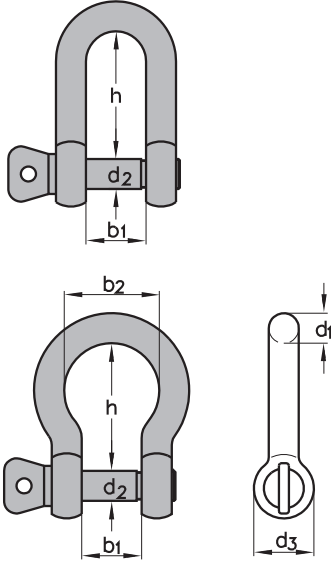
Kilitlerimizin gövde ve pim kulaklarında  
"HW" damgasını arayınız.

Please, follow our logo "HW" stamped on  
the body and bolt of shackles.

### TİCARİ TIP KİLİT / STANDARD SHACKLE WITH EYE BOLT

Galvanizli

Galvanized



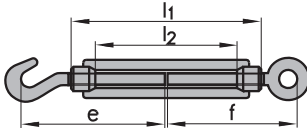
| Ölçü<br>Size | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | b <sub>1</sub> | b <sub>2</sub> | h   | Birim Ağırlığı<br>Weight Per Piece |               | Stok No. / Stock No. |               |
|--------------|----------------|----------------|----------------|----------------|----------------|-----|------------------------------------|---------------|----------------------|---------------|
|              |                |                |                |                |                |     | U Tip / U Type                     | Omega / Omega | U Tip / U Type       | Omega / Omega |
| mm           | inch           | mm             | mm             | mm             | mm             | mm  | kg                                 |               |                      |               |
| 5            | 3/16           | 5              | 5              | 11             | 10             | 16  | 0,02                               | 0,02          | 145 341 005          | 145 343 005   |
| 6            | 1/4            | 6              | 6              | 14             | 12             | 20  | 0,03                               | 0,03          | 145 341 006          | 145 343 006   |
| 8            | 5/16           | 8              | 8              | 18             | 15             | 24  | 0,07                               | 0,07          | 145 341 008          | 145 343 008   |
| 10           | 3/8            | 10             | 10             | 20             | 20             | 32  | 0,13                               | 0,13          | 145 341 010          | 145 343 010   |
| 11           | 7/16           | 11             | 11             | 22             | 22             | 34  | 0,17                               | 0,18          | 145 341 011          | 145 343 011   |
| 12           | 1/2            | 12             | 12             | 26             | 24             | 38  | 0,24                               | 0,26          | 145 341 012          | 145 343 012   |
| 14           | 9/16           | 14             | 14             | 29             | 28             | 44  | 0,35                               | 0,35          | 145 341 014          | 145 343 014   |
| 16           | 5/8            | 16             | 16             | 33             | 32             | 56  | 0,50                               | 0,50          | 145 341 016          | 145 343 016   |
| 20           | 3/4            | 19             | 19             | 41             | 38             | 66  | 0,80                               | 0,80          | 145 341 020          | 145 343 020   |
| 22           | 7/8            | 22             | 22             | 50             | 42             | 72  | 1,30                               | 1,30          | 145 341 022          | 145 343 022   |
| 24           | 1              | 25             | 25             | 58             | 49             | 69  | 2,00                               | 2,00          | 145 341 024          | 145 343 024   |
| 28           | 1 1/8          | 28             | 28             | 66             | 50             | 98  | 3,00                               | 3,00          | 145 341 028          | 145 343 028   |
| 32           | 1 1/4          | 32             | 32             | 73             | 63             | 94  | 4,30                               | 4,30          | 145 341 032          | 145 343 032   |
| 38           | 1 1/2          | 38             | 38             | 85             | 75             | 110 | 6,75                               | 7,00          | 145 341 038          | 145 343 038   |

Ticari tip kilitler kaldırma işlerine uygun değildir.  
Standard shackles are not suitable for safety applications.

### GERDİRME DIN 1480 / TURNBUCKLE Acc. to DIN 1480

Göz ve kancalı, 2 gözlü veya 2 kancalı  
Galvanizli

With hook and eye, 2 eyes or 2 hooks  
Galvanized

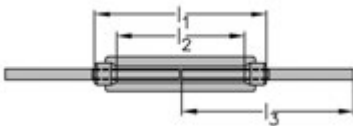


| Ölçü=Diş Çapı<br>Size=Thread Dia. | l <sub>1</sub> | l <sub>2</sub> | e   | f   | Birim Ağırlığı<br>Weight Per Piece | Stok No. / Stock No.    |                   |                      |
|-----------------------------------|----------------|----------------|-----|-----|------------------------------------|-------------------------|-------------------|----------------------|
|                                   |                |                |     |     |                                    | Kanca+Gözlü<br>Hook+Eye | 2 Gözlü<br>2 Eyes | 2 Kancalı<br>2 Hooks |
|                                   | mm             | mm             | mm  | mm  | kg                                 |                         |                   |                      |
| M 6                               | 108            | 84             | 80  | 76  | 0,105                              | 166 051 006             | 166 053 006       | 166 055 006          |
| M 8                               | 108            | 77             | 86  | 83  | 0,145                              | 166 051 008             | 166 053 008       | 166 055 008          |
| M 10                              | 126            | 88             | 100 | 90  | 0,280                              | 166 051 010             | 166 053 010       | 166 055 010          |
| M 12                              | 125            | 85             | 105 | 105 | 0,420                              | 166 051 012             | 166 053 012       | 166 055 012          |
| M 14                              | 140            | 93             | 121 | 114 | 0,550                              | 166 051 014             | 166 053 014       | 166 055 014          |
| M 16                              | 170            | 116            | 150 | 140 | 1,000                              | 166 051 016             | 166 053 016       | 166 055 016          |
| M 20                              | 200            | 132            | 180 | 165 | 1,600                              | 166 051 020             | 166 053 020       | 166 055 020          |
| M 22                              | 215            | 148            | 192 | 172 | 2,100                              | 166 051 022             | 166 053 022       | 166 055 022          |
| M 24                              | 245            | 180            | 220 | 195 | 3,200                              | 166 051 024             | 166 053 024       | 166 055 024          |
| M 30                              | 255            | 165            | 245 | 200 | 3,900                              | 166 051 030             | 166 053 030       | 166 055 030          |

### GERDİRME DIN 1480 / TURNBUCKLE Acc. to DIN 1480

İki ucu küt başlı, kaynak için, kendi renginde

With stub ends for welding, self-coloured



| Ölçü=Diş Çapı<br>Size=Thread Dia. | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|-----------------------------------|----------------|----------------|----------------|------------------------------------|-----------------------|
|                                   | mm             | mm             | mm             | kg                                 |                       |
| M 6                               | 110            | 86             | 120            | 0,10                               | 166 056 006           |
| M 8                               | 110            | 80             | 120            | 0,14                               | 166 056 008           |
| M 10                              | 122            | 87             | 150            | 0,32                               | 166 056 010           |
| M 12                              | 120            | 80             | 160            | 0,44                               | 166 056 012           |
| M 14                              | 135            | 85             | 165            | 0,63                               | 166 056 014           |
| M 16                              | 165            | 110            | 200            | 1,06                               | 166 056 016           |
| M 20                              | 200            | 132            | 220            | 1,68                               | 166 056 020           |
| M 22                              | 215            | 150            | 220            | 2,27                               | 166 056 022           |
| M 24                              | 245            | 177            | 260            | 2,90                               | 166 056 024           |
| M 30                              | 245            | 165            | 260            | 4,10                               | 166 056 030           |



# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES



### GERDİRME AMERİKAN TİP/ TURNBUCKLE Acc. to U.S. FEDERAL SPECIFICATION

| Ölçü*<br>Size* |                |                |    |     |     |    |     |    |     |       |     | Güvenli Çalışma Yüğü<br>Working Load Limit                      |            |                                                 | Birim Ağırlığı<br>Weight Per Piece |         |  |
|----------------|----------------|----------------|----|-----|-----|----|-----|----|-----|-------|-----|-----------------------------------------------------------------|------------|-------------------------------------------------|------------------------------------|---------|--|
|                | I <sub>1</sub> | I <sub>2</sub> | m  | e   | a   | b  | f   | w  | h   | g     | k   | 2 Göz                                                           | 2 Kanca    | 2 Göz                                           | Çoklu Göz<br>Join + Eye            | 2 Kanca |  |
|                |                |                |    |     |     |    |     |    |     |       |     | Gözli + Çatallı Kanca + Göz<br>Eye + Jaw<br>2 Çatallı<br>2 Jaws | Hook + Eye | Göz + Kanca<br>Hook + Eye<br>2 Kanca<br>2 Hooks |                                    |         |  |
|                |                |                |    |     |     |    |     |    |     |       |     |                                                                 |            |                                                 |                                    |         |  |
| inch           | mm             | mm             | mm | mm  | mm  | mm | mm  | mm | mm  | inch  | mm  | kg                                                              | kg         | kg                                              | kg                                 | kg      |  |
| 3/8 x 6        | 180            | 152            | 12 | 129 | 28  | 13 | 137 | 12 | 22  | 5/16  | 137 | 540                                                             | 450        | 0,39                                            | 0,42                               | 0,45    |  |
| 1/2 x 6        | 190            | 152            | 15 | 147 | 36  | 18 | 153 | 16 | 27  | 3/8   | 147 | 1000                                                            | 680        | 0,67                                            | 0,72                               | 0,76    |  |
| 1/2 x 9        | 266            | 228            | 15 | 187 | 36  | 18 | 193 | 16 | 27  | 3/8   | 187 | 1000                                                            | 680        | 0,84                                            | 0,89                               | 0,93    |  |
| 1/2 x 12       | 342            | 304            | 15 | 222 | 36  | 18 | 228 | 16 | 27  | 3/8   | 222 | 1000                                                            | 680        | 1,01                                            | 1,06                               | 1,10    |  |
| 5/8 x 6        | 200            | 152            | 20 | 166 | 44  | 22 | 177 | 19 | 33  | 1/2   | 161 | 1590                                                            | 1020       | 1,07                                            | 1,16                               | 1,25    |  |
| 5/8 x 9        | 276            | 228            | 20 | 206 | 44  | 22 | 217 | 19 | 33  | 1/2   | 201 | 1590                                                            | 1020       | 1,31                                            | 1,40                               | 1,49    |  |
| 5/8 x 12       | 352            | 304            | 20 | 241 | 44  | 22 | 252 | 19 | 33  | 1/2   | 236 | 1590                                                            | 1020       | 1,55                                            | 1,64                               | 1,73    |  |
| 3/4 x 6        | 210            | 152            | 23 | 181 | 54  | 25 | 196 | 23 | 38  | 5/8   | 173 | 2360                                                            | 1360       | 1,75                                            | 1,89                               | 2,03    |  |
| 3/4 x 9        | 287            | 228            | 23 | 221 | 54  | 25 | 236 | 23 | 38  | 5/8   | 213 | 2360                                                            | 1360       | 2,09                                            | 2,23                               | 2,37    |  |
| 3/4 x 12       | 362            | 304            | 23 | 256 | 54  | 25 | 271 | 23 | 38  | 5/8   | 248 | 2360                                                            | 1360       | 2,42                                            | 2,56                               | 2,70    |  |
| 3/4 x 18       | 515            | 457            | 23 | 336 | 54  | 25 | 351 | 23 | 38  | 5/8   | 328 | 2360                                                            | 1360       | 3,08                                            | 3,22                               | 3,36    |  |
| 7/8 x 12       | 372            | 304            | 26 | 273 | 60  | 31 | 287 | 28 | 44  | 3/4   | 266 | 3270                                                            | 1810       | 3,56                                            | 3,80                               | 4,04    |  |
| 7/8 x 18       | 524            | 457            | 26 | 353 | 60  | 31 | 367 | 28 | 44  | 3/4   | 346 | 3270                                                            | 1810       | 4,43                                            | 4,67                               | 4,91    |  |
| 1 x 12         | 381            | 304            | 29 | 286 | 76  | 36 | 323 | 30 | 52  | 7/8   | 286 | 4540                                                            | 2270       | 5,05                                            | 5,33                               | 5,61    |  |
| 1 x 18         | 533            | 457            | 29 | 366 | 76  | 36 | 403 | 30 | 52  | 7/8   | 366 | 4540                                                            | 2270       | 6,25                                            | 6,53                               | 6,81    |  |
| 1 1/4 x 12     | 387            | 304            | -  | -   | 90  | 46 | 360 | 44 | 71  | 1 1/8 | 330 | 6890                                                            | -          | 8,60                                            | 9,20                               | 9,80    |  |
| 1 1/4 x 18     | 540            | 457            | -  | -   | 90  | 46 | 440 | 44 | 71  | 1 1/8 | 380 | 6890                                                            | -          | 10,40                                           | 11,00                              | 11,60   |  |
| 1 1/4 x 24     | 693            | 610            | -  | -   | 90  | 46 | 495 | 44 | 71  | 1 1/8 | 479 | 6890                                                            | -          | 12,20                                           | 12,90                              | 13,60   |  |
| 1 1/2 x 12     | 400            | 304            | -  | -   | 104 | 54 | 390 | 52 | 71  | 1 3/8 | 360 | 9710                                                            | -          | 13,20                                           | 14,30                              | 15,40   |  |
| 1 1/2 x 18     | 550            | 457            | -  | -   | 104 | 54 | 465 | 52 | 71  | 1 3/8 | 430 | 9710                                                            | -          | 15,82                                           | 16,92                              | 18,02   |  |
| 1 1/2 x 24     | 703            | 610            | -  | -   | 104 | 54 | 540 | 52 | 71  | 1 3/8 | 496 | 9710                                                            | -          | 18,00                                           | 18,70                              | 19,30   |  |
| 1 3/4 x 18     | 570            | 457            | -  | -   | -   | -  | -   | 60 | 86  | 1 3/4 | 440 | 12700                                                           | -          | -                                               | -                                  | 23,56   |  |
| 1 3/4 x 24     | 720            | 610            | -  | -   | 117 | 59 | 577 | 60 | 86  | 1 3/4 | 500 | 12700                                                           | -          | 26,00                                           | 27,50                              | 28,81   |  |
| 2 x 24         | 735            | 610            | -  | -   | 143 | 67 | 632 | 64 | 95  | 2     | 540 | 16780                                                           | -          | 37,58                                           | 40,80                              | 45,04   |  |
| 2 1/2 x 24     | 800            | 610            | -  | -   | -   | -  | -   | 73 | 113 | 2 1/2 | 580 | 27220                                                           | -          | -                                               | -                                  | 72,32   |  |
| 2 3/4 x 24     | 800            | 610            | -  | -   | -   | -  | -   | 89 | 106 | 2 3/4 | 610 | 34020                                                           | -          | -                                               | -                                  | 91,00   |  |

\*Ölçü = Diş çapı ve germe mesafesi

\*Size = Thread diameter and take up

| Ölçü<br>Size | 2 Gözlü<br>2 Eyes | Kanca+Göz<br>Hook+Eye | Stok No. / Stock No. | 2 Kancalı<br>2 Hooks | Göz+Çatal**<br>Eye+Jaw | 2 Çatallı**<br>2 Jaws |
|--------------|-------------------|-----------------------|----------------------|----------------------|------------------------|-----------------------|
| inch         |                   |                       |                      |                      |                        |                       |
| 3/8 x 6      | 163 103 806       | 163 003 806           | 163 203 806          | 163 303 806          | 163 403 806            |                       |
| 1/2 x 6      | 163 101 206       | 163 001 206           | 163 201 206          | 163 301 206          | 163 401 206            |                       |
| 1/2 x 9      | 163 101 209       | 163 001 209           | 163 201 209          | 163 301 209          | 163 401 209            |                       |
| 1/2 x 12     | 163 101 212       | 163 001 212           | 163 201 212          | 163 301 212          | 163 401 212            |                       |
| 5/8 x 6      | 163 105 806       | 163 005 806           | 163 205 806          | 163 305 806          | 163 405 806            |                       |
| 5/8 x 9      | 163 105 809       | 163 005 809           | 163 205 809          | 163 305 809          | 163 405 809            |                       |
| 5/8 x 12     | 163 105 812       | 163 005 812           | 163 205 812          | 163 305 812          | 163 405 812            |                       |
| 3/4 x 6      | 163 103 406       | 163 003 406           | 163 203 406          | 163 303 406          | 163 403 406            |                       |
| 3/4 x 9      | 163 103 409       | 163 003 409           | 163 203 409          | 163 303 409          | 163 403 409            |                       |
| 3/4 x 12     | 163 103 412       | 163 003 412           | 163 203 412          | 163 303 412          | 163 403 412            |                       |
| 3/4 x 18     | 163 103 418       | 163 003 418           | 163 203 418          | 163 303 418          | 163 403 418            |                       |
| 7/8 x 12     | 163 107 812       | 163 007 812           | 163 207 812          | 163 307 812          | 163 407 812            |                       |
| 7/8 x 18     | 163 107 818       | 163 007 818           | 163 207 818          | 163 307 818          | 163 407 818            |                       |
| 1 x 12       | 163 110 012       | 163 010 012           | 163 210 012          | 163 310 012          | 163 410 012            |                       |
| 1 x 18       | 163 110 018       | 163 010 018           | 163 210 018          | 163 310 018          | 163 410 018            |                       |
| 1 1/4 x 12   | 163 111 412       | -                     | -                    | 163 311 412          | 163 411 412            |                       |
| 1 1/4 x 18   | 163 111 418       | -                     | -                    | 163 311 418          | 163 411 418            |                       |
| 1 1/4 x 24   | 163 111 424       | -                     | -                    | 163 311 424          | 163 411 424            |                       |
| 1 1/2 x 12   | 163 111 212       | -                     | -                    | 163 311 212          | 163 411 212            |                       |
| 1 1/2 x 18   | 163 111 218       | -                     | -                    | 163 311 218          | 163 411 218            |                       |
| 1 1/2 x 24   | 163 111 224       | -                     | -                    | 163 311 224          | 163 411 224            |                       |
| 1 3/4 x 18   | -                 | -                     | -                    | -                    | 163 413 418            |                       |
| 1 3/4 x 24   | 163 113 424       | -                     | -                    | 163 313 424          | 163 413 424            |                       |
| 2 x 24       | 163 120 024       | -                     | -                    | 163 320 024          | 163 420 024            |                       |
| 2 1/2 x 24   | -                 | -                     | -                    | -                    | 163 421 224            |                       |
| 2 3/4 x 24   | -                 | -                     | -                    | -                    | 163 423 424            |                       |

\*\*1 1/4 ve üstü çatal başlı gerdirmeler sadece civata ve kupilyalıdır.

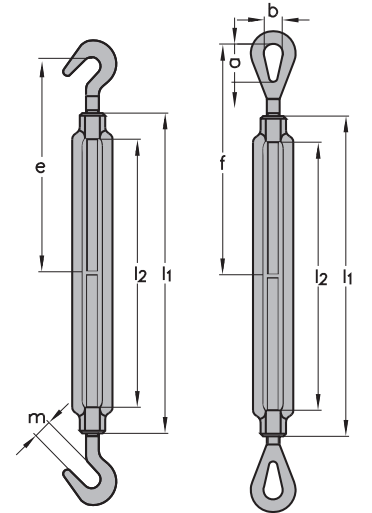
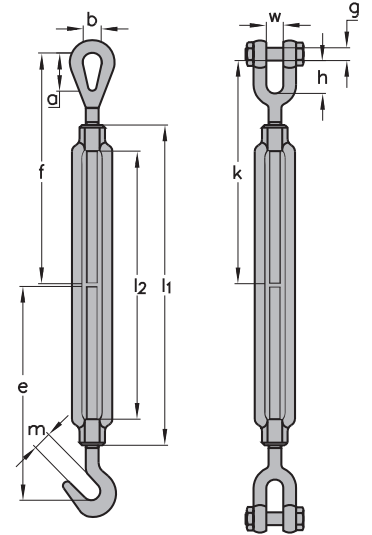
\*\* Turnbuckles with jaws 1 1/4 and larger size are supplied with bolt and cotter pin.

Lütfen gerdirmeler için olan kullanma talimatını isteyiniz.

Please, ask for the instruction manual for turnbuckles.

Dövme çelik,  
kontra somunlu,  
ekstra germe mesafeli,  
galvanizli.

Forged steel,  
with assembled lock nuts,  
extra long take up,  
galvanized.

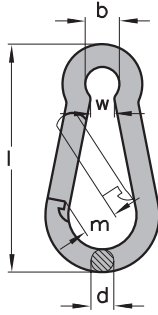




### KARABİNA / SNAP HOOK

Galvanizli

Galvanized

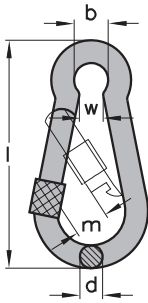


| Ölçü<br>Size | b  | d  | l   | m  | w  | Ambalaj Adedi<br>Units Per Box | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|--------------|----|----|-----|----|----|--------------------------------|--------------------------------------------|-----------------------|
| mm           | mm | mm | mm  | mm | mm |                                | kg                                         |                       |
| 4x40         | 6  | 4  | 40  | 6  | 4  | 100                            | 1,0                                        | 134 431 004           |
| 5x50         | 8  | 5  | 50  | 7  | 4  | 100                            | 1,3                                        | 134 431 005           |
| 6x60         | 9  | 6  | 60  | 8  | 5  | 100                            | 2,7                                        | 134 431 006           |
| 7x70         | 10 | 7  | 70  | 8  | 8  | 100                            | 4,3                                        | 134 431 007           |
| 8x80         | 10 | 8  | 80  | 9  | 8  | 100                            | 6,4                                        | 134 431 008           |
| 9x90         | 12 | 9  | 90  | 10 | 9  | 50                             | 8,8                                        | 134 431 009           |
| 10x100       | 15 | 10 | 100 | 11 | 10 | 50                             | 12,6                                       | 134 431 010           |
| 11x120       | 18 | 11 | 120 | 16 | 11 | 20                             | 19,0                                       | 134 431 012           |
| 12x140       | 20 | 12 | 140 | 19 | 13 | 20                             | 26,0                                       | 134 431 014           |
| 13x160       | 22 | 13 | 160 | 25 | 15 | 10                             | 35,0                                       | 134 431 016           |
| 14x180       | 22 | 14 | 180 | 35 | 15 | 10                             | 48,0                                       | 134 431 018           |
| 15x200       | 22 | 15 | 200 | 35 | 16 | -                              | 62,0                                       | 134 431 020           |

### VİDALI KARABİNA / SNAP HOOK WITH SCREW LOCK

Galvanizli

Galvanized

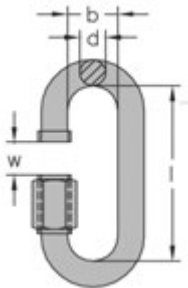


| Ölçü<br>Size | b  | d  | l   | m  | w  | Ambalaj Adedi<br>Units Per Box | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|--------------|----|----|-----|----|----|--------------------------------|--------------------------------------------|-----------------------|
| mm           | mm | mm | mm  | mm | mm |                                | kg                                         |                       |
| 7x70         | 11 | 7  | 70  | 8  | 8  | 100                            | 4,6                                        | 134 531 007           |
| 8x80         | 12 | 8  | 80  | 9  | 8  | 100                            | 7,0                                        | 134 531 008           |
| 9x90         | 13 | 9  | 90  | 9  | 8  | 50                             | 10,0                                       | 134 531 009           |
| 10x100       | 15 | 10 | 100 | 12 | 10 | 50                             | 13,4                                       | 134 531 010           |
| 11x120       | 18 | 11 | 120 | 16 | 11 | 20                             | 20,6                                       | 134 531 012           |
| 12x140       | 20 | 12 | 140 | 19 | 13 | 20                             | 27,5                                       | 134 531 014           |

### VİDALI HALKA / QUICK LINK

Galvanizli

Galvanized



| Ölçü<br>Size | b  | d  | l  | w   | Ambalaj Adedi<br>Units Per Box | 100 Adet Ağırlığı<br>Weight Per 100 Pieces | Stok No.<br>Stock No. |
|--------------|----|----|----|-----|--------------------------------|--------------------------------------------|-----------------------|
| mm           | mm | mm | mm | mm  |                                | kg                                         |                       |
| 4            | 10 | 4  | 33 | 5,5 | 100                            | 1,2                                        | 112 310 004           |
| 5            | 12 | 5  | 39 | 6,5 | 100                            | 2,1                                        | 112 310 005           |
| 6            | 13 | 6  | 45 | 7,5 | 100                            | 3,5                                        | 112 310 006           |
| 7            | 16 | 7  | 53 | 8,5 | 100                            | 5,7                                        | 112 310 007           |
| 8            | 16 | 8  | 59 | 10  | 100                            | 8,0                                        | 112 310 008           |
| 10           | 20 | 10 | 70 | 12  | 50                             | 14,8                                       | 112 310 010           |
| 12           | 22 | 12 | 82 | 14  | 25                             | 23,5                                       | 112 310 012           |





# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES

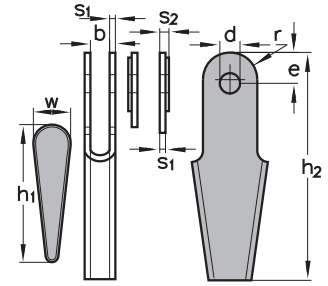


### AÇIK TİP KAMALI SOKET DIN 15315 / OPEN WEDGE SOCKET Acc. to DIN 15315

Hafif işler için, Galvanizli

For light duty, Galvanized

| Ölçü<br>Size | Halat Çapı<br>Rope Dia. | b  | e  | s <sub>1</sub> | s <sub>2</sub> | h <sub>2</sub> | d  | r  | h <sub>1</sub> | w  | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|-------------------------|----|----|----------------|----------------|----------------|----|----|----------------|----|------------------------------------|-----------------------|
| mm           | mm                      | mm | mm | mm             | mm             | mm             | mm | mm | mm             | mm | kg                                 |                       |
| 5            | 4-5                     | 12 | 14 | 3              | -              | 110            | 10 | 12 | 68             | 19 | 0,17                               | 187 284 005           |
| 6,5          | 5-6,5                   | 10 | 16 | 4,5            | -              | 100            | 10 | 14 | 58             | 19 | 0,21                               | 187 284 006           |
| 8            | 6-8                     | 14 | 20 | 4              | -              | 150            | 12 | 18 | 92             | 25 | 0,50                               | 187 284 008           |
| 11           | 9-11                    | 17 | 26 | 6              | -              | 190            | 16 | 23 | 117            | 32 | 1,04                               | 187 284 011           |
| 14           | 12-14                   | 22 | 32 | 8              | -              | 230            | 18 | 28 | 141            | 38 | 2,07                               | 187 284 014           |
| 17           | 15-17                   | 25 | 36 | 10             | -              | 260            | 22 | 32 | 162            | 46 | 3,66                               | 187 284 017           |
| 20           | 18-20                   | 27 | 40 | 12             | -              | 300            | 25 | 35 | 186            | 52 | 5,35                               | 187 284 020           |
| 25           | 22-25                   | 33 | 40 | 12             | -              | 285            | 40 | 44 | 180            | 60 | 6,22                               | 187 284 025           |
| 30           | 26-30                   | 40 | 55 | 14             | 22             | 335            | 50 | 55 | 182            | 62 | 10,10                              | 187 284 030           |
| 35           | 31-35                   | 44 | 60 | 27             | 35             | 390            | 55 | 60 | 207            | 68 | 23,64                              | 187 284 035           |
| 40           | 36-40                   | 50 | 70 | 29             | 37             | 460            | 60 | 65 | 231            | 70 | 33,22                              | 187 284 040           |



11'e kadar  
Up to Nominal  
Size 11



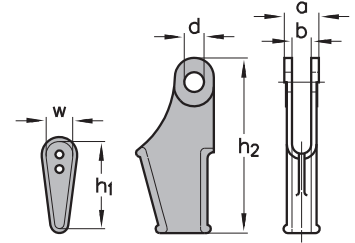
14'ten itibaren  
from Nominal  
Size 14

### AÇIK TİP KAMALI SOKET DIN 43148 / OPEN WEDGE SOCKET Similar to DIN 43148

Ağır işler için, Galvanizli

For heavy duty, Galvanized

| Ölçü= Halat Çapı<br>Size= Rope Dia. | Kamadaki Delik Sayısı<br>Number of Holes in The Wedge | Kapasite<br>Rated Load | a  | b  | d    | h <sub>1</sub> | h <sub>2</sub> | w    | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|-------------------------------------|-------------------------------------------------------|------------------------|----|----|------|----------------|----------------|------|------------------------------------|-----------------------|
| mm                                  |                                                       | kg                     | mm | mm | mm   | mm             | mm             | mm   | kg                                 |                       |
| 2-3                                 | 0                                                     | 50                     | 15 | 8  | 7,5  | 37             | 66             | 12,5 | 0,08                               | 187 300 204           |
| 4-5                                 | 0                                                     | 250                    | 23 | 12 | 12   | 67             | 108            | 16   | 0,36                               | 187 300 405           |
| 6-7                                 | 3                                                     | 500                    | 26 | 14 | 14   | 85             | 150            | 30   | 0,75                               | 187 300 607           |
| 8                                   | 2                                                     | 500                    | 26 | 14 | 14   | 81             | 150            | 24   | 0,69                               | 187 300 800           |
| 9-12                                | 1                                                     | 500                    | 26 | 14 | 14   | 76             | 150            | 20   | 0,65                               | 187 300 912           |
| 10-12                               | 2                                                     | 1000                   | 31 | 17 | 17   | 81             | 163            | 24   | 0,82                               | 187 301 012           |
| 12-14                               | 1                                                     | 1000                   | 31 | 17 | 17   | 76             | 163            | 20   | 0,78                               | 187 301 214           |
| 12-15                               | 0                                                     | 2500                   | 40 | 20 | 20   | 107            | 220            | 36   | 2,56                               | 187 301 215           |
| 16-17                               | 0                                                     | 5500                   | 52 | 24 | 25   | 148            | 273            | 56   | 6,30                               | 188 301 617           |
| 16-20                               | 0                                                     | 5500                   | 52 | 24 | 25   | 136            | 273            | 49   | 6,30                               | 188 301 800           |
| 19-20                               | 0                                                     | 8000                   | 63 | 29 | 25   | 161            | 276            | 52   | 7,50                               | 188 301 920           |
| 21-23                               | 0                                                     | 6800                   | 66 | 30 | 33,5 | 218            | 370            | 80   | 12,90                              | 188 302 100           |
| 27-32                               | 0                                                     | 10000                  | 91 | 37 | 48,5 | 212            | 486            | 88   | 27,00                              | 188 302 630           |

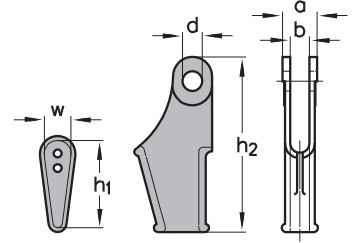


### AÇIK TİP KAMALI SOKET EN 13411-6 / OPEN WEDGE SOCKET acc. to EN 13411-6

Pim ve kupilyalı, Galvanizli

With bolt and cotter pin, Galvanized

| Ölçü= Halat Çapı<br>Size= Rope Dia. | Kapasite<br>Rated Load | Kamadaki Delik Sayısı<br>Number of Holes in The Wedge | a  | b  | d    | h <sub>1</sub> | h <sub>2</sub> | w  | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|-------------------------------------|------------------------|-------------------------------------------------------|----|----|------|----------------|----------------|----|------------------------------------|-----------------------|
| mm                                  | kg                     |                                                       | mm | mm | mm   | mm             | mm             | mm | kg                                 |                       |
| 6-7                                 | 1800                   | 3                                                     | 28 | 14 | 16   | 85             | 152            | 30 | 0,9                                | 188 300 607           |
| 8-10                                | 1800                   | 2                                                     | 28 | 14 | 16   | 81             | 152            | 24 | 0,9                                | 188 300 810           |
| 11-12                               | 2200                   | 2                                                     | 31 | 17 | 17   | 81             | 163            | 24 | 1,2                                | 188 301 112           |
| 13-15                               | 5000                   | 0                                                     | 40 | 21 | 20   | 112            | 218            | 36 | 2,3                                | 188 301 315           |
| 16-17                               | 5500                   | 0                                                     | 52 | 24 | 25   | 148            | 273            | 56 | 6,3                                | 188 301 617           |
| 18                                  | 5500                   | 0                                                     | 52 | 24 | 25   | 136            | 273            | 49 | 6,3                                | 188 301 800           |
| 19-20                               | 8000                   | 0                                                     | 63 | 29 | 25   | 161            | 276            | 52 | 7,5                                | 188 301 920           |
| 21                                  | 10000                  | 0                                                     | 66 | 30 | 33,5 | 218            | 370            | 80 | 12,9                               | 188 302 100           |
| 22-25                               | 10000                  | 0                                                     | 66 | 30 | 33,5 | 190            | 370            | 78 | 12,9                               | 188 302 225           |
| 26-30                               | 12000                  | 0                                                     | 91 | 37 | 48,5 | 212            | 486            | 88 | 27,0                               | 188 302 630           |



EN 13411-6 soketlerin gövdeleri 13-15 ölçüye kadar sarı galvanizlidir.

The cases of the socket acc. to EN 13411-6 up to nominal size 13-15 are yellow galvanized.

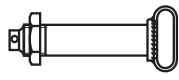
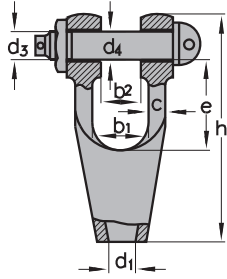
LÜTFEN UYGULAMA TALİMATLARINI VE UYARILARI DİKKATE ALINIZ / PLEASE SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS



### AÇIK TİP TUTYALI SOKET DIN 83313 / OPEN SPelter SOCKET Acc. to DIN 83313

Tip B = Pimsiz  
Tip C = Pimli, somunlu ve kupilyalı

Type B = Without bolt  
Type C = With bolt, nut and cotter pin



32,40,50 ölçüler için  
pim modeli

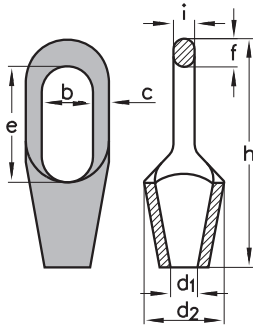
Bolt for nominal size 32,40,50

| Ölçü<br>Size | Halat Çapı<br>Rope Dia. | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | b <sub>1</sub> | b <sub>2</sub> | c  | d <sub>1</sub> | d <sub>3</sub> | d <sub>4</sub> | e   | h   | Birim Ağırlığı<br>Weight Per Piece | Tip B<br>Type B | Tip C<br>Type C | Stok No. / Stock No. | Tip B<br>Type B | Tip C<br>Type C |
|--------------|-------------------------|--------------------------------------------------|----------------|----------------|----|----------------|----------------|----------------|-----|-----|------------------------------------|-----------------|-----------------|----------------------|-----------------|-----------------|
| mm           | mm                      | kg                                               | mm             | mm             | mm | mm             | mm             | mm             | mm  | mm  | kg                                 |                 |                 |                      |                 |                 |
| 1,6          | 12-14                   | 1600                                             | 37             | 27             | 12 | 17             | M20            | 20             | 55  | 147 | 0,9                                | 1,1             | 187 480 016     | 187 481 016          |                 |                 |
| 2,5          | 14-18                   | 2500                                             | 45             | 33             | 14 | 20             | M24            | 24             | 67  | 175 | 1,4                                | 1,8             | 187 480 025     | 187 481 025          |                 |                 |
| 3            | 16-20                   | 3150                                             | 50             | 38             | 16 | 22             | M27            | 27             | 73  | 195 | 1,8                                | 2,4             | 187 480 030     | 187 481 030          |                 |                 |
| 4            | 18-22                   | 4000                                             | 54             | 42             | 18 | 24             | M30            | 30             | 81  | 212 | 2,4                                | 3,2             | 187 480 040     | 187 481 040          |                 |                 |
| 5            | 20-24                   | 5000                                             | 60             | 47             | 20 | 27             | M36            | 36             | 88  | 237 | 3,7                                | 5,0             | 187 480 050     | 187 481 050          |                 |                 |
| 6            | 22-28                   | 6300                                             | 67             | 53             | 23 | 30             | M39            | 39             | 94  | 262 | 5,0                                | 6,7             | 187 480 060     | 187 481 060          |                 |                 |
| 8            | 26-30                   | 8000                                             | 73             | 60             | 26 | 33             | M45            | 45             | 104 | 289 | 7,0                                | 9,5             | 187 480 080     | 187 481 080          |                 |                 |
| 10           | 28-34                   | 10000                                            | 80             | 66             | 29 | 36             | M48            | 48             | 116 | 320 | 10,0                               | 13,0            | 187 480 100     | 187 481 100          |                 |                 |
| 12           | 32-38                   | 12500                                            | 89             | 73             | 32 | 40             | M52            | 52             | 130 | 356 | 13,0                               | 17,0            | 187 480 120     | 187 481 120          |                 |                 |
| 16           | 36-44                   | 16000                                            | 100            | 81             | 35 | 45             | M60            | 60             | 143 | 397 | 18,0                               | 24,0            | 187 480 160     | 187 481 160          |                 |                 |
| 20           | 40-50                   | 20000                                            | 110            | 90             | 40 | 50             | M68            | 68             | 157 | 435 | 23,0                               | 31,0            | 187 480 200     | 187 481 200          |                 |                 |
| 25           | 44-54                   | 25000                                            | 120            | 100            | 43 | 55             | M72x6          | 72             | 179 | 480 | 31,0                               | 41,0            | 187 480 250     | 187 481 250          |                 |                 |
| 32           | 50-62                   | 31500                                            | 132            | 110            | 48 | 60             | M80x6          | 80             | 191 | 525 | 42,0                               | 55,0            | 187 480 320     | 187 481 320          |                 |                 |
| 40           | 58-72                   | 40000                                            | 150            | 125            | 54 | 68             | M90x6          | 90             | 218 | 595 | 60,0                               | 80,0            | 187 480 400     | 187 481 400          |                 |                 |
| 50           | 62-76                   | 50000                                            | 165            | 140            | 60 | 75             | M100x6         | 100            | 238 | 655 | 80,0                               | 105,0           | 187 480 500     | 187 481 500          |                 |                 |

### KAPALI TİP TUTYALI SOKET DIN 83313 / CLOSED SPelter SOCKET Acc. to DIN 83313

Tip A

Type A



| Ölçü<br>Size | Halat Çapı<br>Rope Dia. | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit | b   | c  | d <sub>1</sub> | d <sub>2</sub> | e   | f  | h   | i  | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|-------------------------|--------------------------------------------------|-----|----|----------------|----------------|-----|----|-----|----|------------------------------------|-----------------------|
| mm           | mm                      | kg                                               | mm  | mm | mm             | mm             | mm  | mm | mm  | mm | kg                                 |                       |
| 1,6          | 12-14                   | 1600                                             | 37  | 12 | 17             | 55             | 76  | 19 | 155 | 15 | 0,7                                | 187 580 016           |
| 2,5          | 14-18                   | 2500                                             | 45  | 14 | 20             | 62             | 89  | 24 | 182 | 19 | 1,2                                | 187 580 025           |
| 3            | 16-20                   | 3150                                             | 50  | 16 | 22             | 69             | 98  | 26 | 202 | 21 | 1,5                                | 187 580 030           |
| 4            | 18-22                   | 4000                                             | 54  | 18 | 24             | 76             | 106 | 30 | 220 | 24 | 2,0                                | 187 580 040           |
| 5            | 20-24                   | 5000                                             | 60  | 20 | 27             | 85             | 117 | 34 | 245 | 27 | 3,1                                | 187 580 050           |
| 6            | 22-28                   | 6300                                             | 67  | 23 | 30             | 94             | 131 | 38 | 275 | 30 | 4,2                                | 187 580 060           |
| 8            | 26-30                   | 8000                                             | 73  | 26 | 33             | 103            | 143 | 42 | 300 | 33 | 5,8                                | 187 580 080           |
| 10           | 28-34                   | 10000                                            | 80  | 29 | 36             | 112            | 160 | 45 | 330 | 36 | 8,0                                | 187 580 100           |
| 12           | 32-38                   | 12500                                            | 89  | 32 | 40             | 125            | 179 | 51 | 370 | 41 | 11,0                               | 187 580 120           |
| 16           | 36-44                   | 16000                                            | 100 | 35 | 45             | 140            | 200 | 56 | 415 | 46 | 15,0                               | 187 580 160           |
| 20           | 40-50                   | 20000                                            | 110 | 40 | 50             | 156            | 224 | 62 | 460 | 50 | 20,0                               | 187 580 200           |
| 25           | 44-54                   | 25000                                            | 120 | 43 | 55             | 173            | 246 | 69 | 505 | 55 | 27,0                               | 187 580 250           |
| 32           | 50-62                   | 31500                                            | 132 | 48 | 60             | 188            | 270 | 76 | 555 | 61 | 35,0                               | 187 580 320           |
| 40           | 58-72                   | 40000                                            | 150 | 54 | 68             | 212            | 308 | 85 | 630 | 68 | 50,0                               | 187 580 400           |
| 50           | 62-76                   | 50000                                            | 165 | 60 | 75             | 235            | 339 | 94 | 695 | 75 | 67,0                               | 187 580 500           |



# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES



### AÇIK TİP TUTYALI SOKET TİP OSS / OPEN SPELTER SOCKETS TYPE OSS

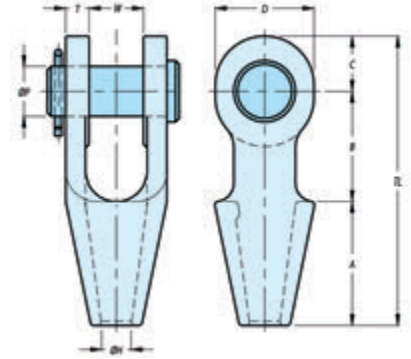
Alaşımlı çelik döküm

Alloy cast steel

| Güvenli Çalışma Yüğü<br>Working Load Limit | Halat Çapı<br>Rope Dia. |               | Ölçüler / Dimensions |     |     |     |      |     |     |      |     | Ağırlık<br>Weight | Stok No.<br>Stock No. |
|--------------------------------------------|-------------------------|---------------|----------------------|-----|-----|-----|------|-----|-----|------|-----|-------------------|-----------------------|
|                                            |                         |               | A                    | B   | C   | D   | øH   | øP  | T   | TL   | W   |                   |                       |
| ton                                        | mm                      | inch          | mm                   | mm  | mm  | mm  | mm   | mm  | mm  | mm   | mm  | kg                |                       |
| 4                                          | 11 - 13                 | 7/16 - 1/2    | 64                   | 51  | 27  | 50  | 14   | 25  | 12  | 142  | 25  | 1                 | 187 416 013           |
| 5                                          | 14 - 16                 | 9/16 - 5/8    | 76                   | 63  | 32  | 58  | 17,5 | 30  | 14  | 171  | 32  | 1,8               | 187 416 016           |
| 8                                          | 18 - 19                 | 3/4           | 89                   | 76  | 40  | 70  | 21   | 35  | 16  | 205  | 38  | 3,2               | 187 416 019           |
| 10                                         | 20 - 22                 | 7/8           | 101                  | 89  | 45  | 80  | 24   | 41  | 19  | 235  | 44  | 4,6               | 187 416 022           |
| 12,6                                       | 23 - 26                 | 1             | 114                  | 101 | 60  | 104 | 28   | 51  | 22  | 275  | 51  | 8                 | 187 416 026           |
| 16                                         | 27 - 30                 | 1 1/8         | 127                  | 114 | 65  | 114 | 32   | 57  | 25  | 306  | 57  | 11                | 187 416 030           |
| 20                                         | 31 - 36                 | 1 1/4 - 1 3/8 | 139                  | 127 | 72  | 126 | 38   | 63  | 28  | 338  | 63  | 16                | 187 416 036           |
| 25                                         | 37 - 39                 | 1 1/2         | 152                  | 162 | 80  | 142 | 41   | 70  | 30  | 394  | 76  | 23                | 187 416 039           |
| 32                                         | 40 - 42                 | 1 5/8         | 165                  | 165 | 88  | 152 | 44   | 76  | 33  | 418  | 76  | 27                | 187 416 042           |
| 40                                         | 43 - 48                 | 1 3/4 - 1 7/8 | 190                  | 178 | 100 | 176 | 51   | 89  | 39  | 468  | 89  | 41                | 187 416 048           |
| 50                                         | 49 - 54                 | 2 - 2 1/8     | 216                  | 228 | 108 | 194 | 57   | 95  | 46  | 552  | 101 | 58                | 187 416 054           |
| 64                                         | 55 - 60                 | 2 1/4 - 2 3/8 | 228                  | 250 | 120 | 210 | 63   | 108 | 53  | 598  | 113 | 85                | 187 416 060           |
| 80                                         | 61 - 68                 | 2 1/2 - 2 5/8 | 248                  | 273 | 133 | 236 | 73   | 121 | 60  | 654  | 127 | 118               | 187 416 068           |
| 90                                         | 69 - 75                 | 2 3/4 - 2 7/8 | 279                  | 279 | 138 | 240 | 79   | 127 | 73  | 696  | 133 | 155               | 187 416 075           |
| 100                                        | 76 - 80                 | 3 - 3 1/8     | 305                  | 286 | 146 | 252 | 86   | 133 | 76  | 737  | 146 | 173               | 187 416 080           |
| 120                                        | 81 - 86                 | 3 1/4 - 3 3/8 | 330                  | 298 | 160 | 290 | 92   | 140 | 79  | 788  | 159 | 230               | 187 416 086           |
| 140                                        | 87 - 93                 | 3 1/2 - 3 5/8 | 356                  | 318 | 178 | 320 | 99   | 152 | 83  | 852  | 171 | 265               | 187 416 093           |
| 160                                        | 94 - 102                | 3 3/4 - 4     | 381                  | 343 | 190 | 350 | 108  | 178 | 89  | 914  | 191 | 370               | 187 416 102           |
| 200                                        | 108 - 115               | 4 1/4 - 4 1/2 | 450                  | 480 | 215 | 400 | 125  | 195 | 100 | 1145 | 205 | 525               | 187 416 115           |
| 240                                        | 120 - 130               | 4 3/4 - 5     | 500                  | 500 | 250 | 450 | 143  | 220 | 110 | 1250 | 225 | 735               | 187 416 130           |

Açık tip soketler pim yerine istendiğinde civatalı ve somunlu tedarik edilebilir.

Open spelter sockets can be supplied with bolt instead of pin.

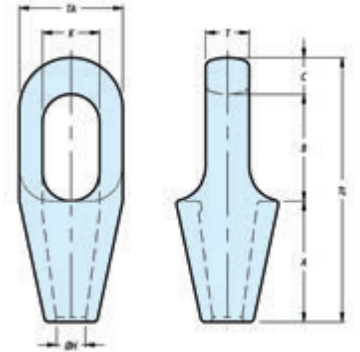


### KAPALI TİP TUTYALI SOKET TİP CSS / CLOSED SPELTER SOCKETS TYPE CSS

Alaşımlı çelik döküm

Alloy cast steel

| Güvenli Çalışma Yüğü<br>Working Load Limit | Halat Çapı<br>Rope Dia. |               | Ölçüler / Dimensions |     |      |      |     |      |     |      |      | Ağırlık<br>Weight | Stok No.<br>Stock No. |
|--------------------------------------------|-------------------------|---------------|----------------------|-----|------|------|-----|------|-----|------|------|-------------------|-----------------------|
|                                            |                         |               | A                    | B   | C    | øH   | K   | T    | TA  | TL   |      |                   |                       |
| ton                                        | mm                      | inch          | mm                   | mm  | mm   | mm   | mm  | mm   | mm  | mm   | kg   |                   |                       |
| 4                                          | 11 - 13                 | 7/16 - 1/2    | 63,5                 | 59  | 17,5 | 14   | 30  | 22,5 | 51  | 140  | 0,7  | 187 417 013       |                       |
| 5                                          | 14 - 16                 | 9/16 - 5/8    | 76                   | 65  | 21   | 17,5 | 36  | 26   | 67  | 162  | 1,3  | 187 417 016       |                       |
| 8                                          | 18 - 19                 | 3/4           | 89                   | 78  | 27   | 21   | 42  | 32   | 76  | 194  | 2,1  | 187 417 019       |                       |
| 10                                         | 20 - 22                 | 7/8           | 101                  | 90  | 33   | 24   | 47  | 38   | 92  | 224  | 3,6  | 187 417 022       |                       |
| 12,6                                       | 23 - 26                 | 1             | 114                  | 103 | 36   | 28   | 57  | 44   | 104 | 253  | 5,3  | 187 417 026       |                       |
| 16                                         | 27 - 30                 | 1 1/8         | 127                  | 116 | 39   | 32   | 63  | 51   | 114 | 282  | 7    | 187 417 030       |                       |
| 20                                         | 31 - 36                 | 1 1/4 - 1 3/8 | 139                  | 130 | 43   | 38   | 70  | 57   | 127 | 312  | 9,7  | 187 417 036       |                       |
| 25                                         | 37 - 39                 | 1 1/2         | 152                  | 155 | 51   | 41   | 79  | 63   | 136 | 358  | 13   | 187 417 039       |                       |
| 32                                         | 40 - 42                 | 1 5/8         | 165                  | 171 | 54   | 44   | 83  | 70   | 146 | 390  | 17   | 187 417 042       |                       |
| 40                                         | 43 - 48                 | 1 3/4 - 1 7/8 | 190                  | 198 | 55   | 51   | 93  | 76   | 171 | 443  | 26   | 187 417 048       |                       |
| 50                                         | 49 - 54                 | 2-2 1/8       | 216                  | 224 | 62   | 57   | 100 | 82   | 193 | 502  | 37,5 | 187 417 054       |                       |
| 64                                         | 55 - 60                 | 2 1/4 - 2 3/8 | 228                  | 247 | 73   | 63   | 112 | 92   | 216 | 548  | 50   | 187 417 060       |                       |
| 80                                         | 61 - 68                 | 2 1/2 - 2 5/8 | 248                  | 270 | 79   | 73   | 140 | 102  | 241 | 597  | 65   | 187 417 068       |                       |
| 90                                         | 69 - 75                 | 2 3/4 - 2 7/8 | 279                  | 286 | 79   | 79   | 159 | 124  | 273 | 644  | 94   | 187 417 075       |                       |
| 100                                        | 76 - 80                 | 3-3 1/8       | 305                  | 298 | 83   | 86   | 171 | 133  | 292 | 686  | 110  | 187 417 080       |                       |
| 120                                        | 81 - 86                 | 3 1/4 - 3 3/8 | 330                  | 311 | 102  | 92   | 184 | 146  | 311 | 743  | 145  | 187 417 086       |                       |
| 140                                        | 87-93                   | 3 1/2 - 3 5/8 | 356                  | 330 | 102  | 99   | 197 | 159  | 330 | 788  | 182  | 187 417 093       |                       |
| 160                                        | 94 - 102                | 3 3/4 -4      | 381                  | 356 | 108  | 108  | 216 | 178  | 362 | 845  | 210  | 187 417 102       |                       |
| 200                                        | 108 - 115               | 4 1/4 -4 1/2  | 450                  | 425 | 125  | 125  | 235 | 190  | 405 | 1000 | 330  | 187 417 115       |                       |
| 240                                        | 120 - 130               | 4 3/4 -5      | 500                  | 525 | 125  | 138  | 260 | 200  | 450 | 1150 | 500  | 187 417 130       |                       |



Soketler mavi boyalıdır, ancak istenirse sıcak daldırma galvaniz temin edilir.

Bütün soketler için EN 10204-2.1 normunda uygunluk sertifikası ve EN 10204-3.1

normunda malzeme sertifikası verilir. EC beyanı 2006/42/EC, ek II-A makina direktifine uygundur.

Standard sockets normally are painted in blue. Hot dipped galvanized is also available.

All sockets can be provided with declaration of compliance acc. to EN 10204-2.1

Material certificate is acc. to EN 10204-3.1 and EC Declaration is acc. to machine directive 2006/42/EC, appendix II-A.

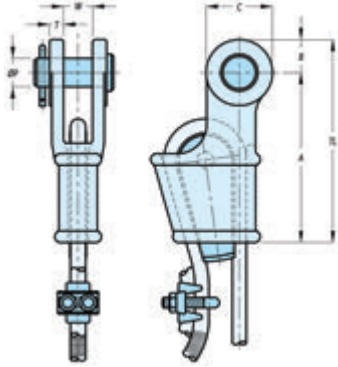
LÜTFEN UYGULAMA TALİMATLARINI VE UYARILARI DİKKATE ALINIZ / PLEASE SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS



### AÇIK TİP KAMALI SOKET TİP OWS / OPEN WEDGE SOCKETS TYPE OWS

Alaşımlı çelik döküm

Alloy cast steel



| Güvenli Çalışma Yüğü<br><i>Working Load Limit</i> | Halat Çapı<br><i>Rope Dia.</i> |               | Ölçüler / <i>Dimensions</i> |     |     |      |    |      |      | Ağırlık<br><i>Weight</i> | Stok No.<br><i>Stock No.</i> |
|---------------------------------------------------|--------------------------------|---------------|-----------------------------|-----|-----|------|----|------|------|--------------------------|------------------------------|
|                                                   |                                |               | A                           | B   | C   | øP   | T  | TL   | W    |                          |                              |
| ton                                               | mm                             | inch          | mm                          | mm  | mm  | mm   | mm | mm   | mm   | kg                       |                              |
| 1,25                                              | 7 - 8                          | 5/16          | 110                         | 19  | 36  | 16   | 9  | 129  | 18   | 0,8                      | 187 421 008                  |
| 2                                                 | 9 - 10                         | 3/8           | 142                         | 23  | 46  | 20,6 | 11 | 165  | 20,5 | 1,7                      | 187 421 010                  |
| 3,2                                               | 11 - 13                        | 1/2           | 146                         | 29  | 57  | 25   | 12 | 175  | 25   | 2,1                      | 187 421 013                  |
| 5                                                 | 14 - 16                        | 5/8           | 176                         | 35  | 70  | 30   | 15 | 211  | 31   | 4                        | 187 421 016                  |
| 6,3                                               | 18 - 19                        | 3/4           | 212                         | 40  | 80  | 35   | 16 | 252  | 38   | 7                        | 187 421 019                  |
| 8                                                 | 20 - 22                        | 7/8           | 240                         | 48  | 95  | 41   | 19 | 288  | 44   | 10                       | 187 421 022                  |
| 12,6                                              | 24 - 26                        | 1             | 274                         | 55  | 110 | 51   | 22 | 329  | 51   | 15                       | 187 421 026                  |
| 16                                                | 27 - 29                        | 1 1/8         | 310                         | 65  | 130 | 57   | 25 | 375  | 57   | 21                       | 187 421 029                  |
| 20                                                | 30 - 32                        | 1 1/4         | 350                         | 73  | 146 | 64   | 28 | 423  | 63   | 31                       | 187 421 032                  |
| 20                                                | 34 - 36                        | 1 3/8         | 400                         | 74  | 148 | 64   | 28 | 474  | 69   | 37                       | 187 421 036                  |
| 25                                                | 37 - 39                        | 1 1/2         | 450                         | 80  | 142 | 70   | 30 | 530  | 76   | 51                       | 187 421 039                  |
| 32                                                | 40 - 42                        | 1 5/8         | 500                         | 87  | 160 | 76   | 33 | 587  | 76   | 64                       | 187 421 042                  |
| 40                                                | 43 - 48                        | 1 3/4 - 1 7/8 | 550                         | 100 | 186 | 89   | 39 | 650  | 89   | 96                       | 187 421 048                  |
| 50                                                | 49 - 52                        | 2             | 640                         | 105 | 194 | 95   | 46 | 745  | 101  | 130                      | 187 421 052                  |
| 64                                                | 54 - 58                        | 2 1/4         | 660                         | 125 | 230 | 108  | 54 | 785  | 114  | 180                      | 187 421 058                  |
| 80                                                | 60 - 68                        | 2 1/2         | 835                         | 135 | 250 | 121  | 60 | 970  | 127  | 275                      | 187 421 068                  |
| 90                                                | 72 - 76                        | 3             | 1000                        | 150 | 270 | 133  | 76 | 1150 | 146  | 440                      | 187 421 076                  |
| 100                                               | 81 - 86                        | 3 1/4 - 3 3/8 | 1100                        | 152 | 300 | 140  | 79 | 1252 | 159  | 510                      | 187 421 086                  |

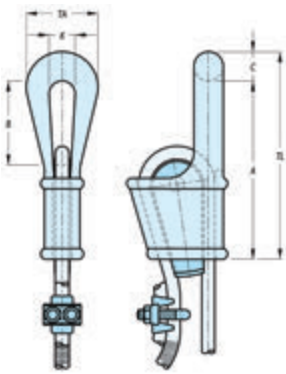
Açık tip kamalı soketler pim yerine istendiğinde civatalı ve somunlu tedarik edilebilir.

Open wedge sockets can be supplied with bolt instead of pin.

### KAPALI TİP KAMALI SOKET TİP CWS / CLOSED WEDGE SOCKETS TYPE CWS

Alaşımlı çelik döküm

Alloy cast steel



| Güvenli Çalışma Yüğü<br>Working Load Limit | Halat Çapı<br>Rope Dia. |               | Ölçüler / Dimensions |     |     |     |     |      | Ağırlık<br>Weight | Stok No.<br>Stock No. |
|--------------------------------------------|-------------------------|---------------|----------------------|-----|-----|-----|-----|------|-------------------|-----------------------|
|                                            |                         |               | A                    | B   | C   | K   | TA  | TL   |                   |                       |
| ton                                        | mm                      | inch          | mm                   | mm  | mm  | mm  | mm  | mm   | kg                |                       |
| 6,3                                        | 18 - 19                 | 3/4           | 220                  | 100 | 34  | 40  | 90  | 254  | 7                 | 187 422 019           |
| 8                                          | 20 - 22                 | 7/8           | 225                  | 125 | 42  | 47  | 110 | 267  | 9                 | 187 422 022           |
| 12,6                                       | 24 - 26                 | 1             | 290                  | 130 | 50  | 55  | 125 | 340  | 14                | 187 422 026           |
| 16                                         | 27 - 29                 | 1 1/8         | 325                  | 145 | 60  | 70  | 152 | 385  | 22                | 187 422 029           |
| 20                                         | 30 - 32                 | 1 1/4         | 360                  | 160 | 68  | 75  | 165 | 428  | 30                | 187 422 032           |
| 20                                         | 34 - 36                 | 1 3/8         | 400                  | 180 | 68  | 75  | 165 | 468  | 38                | 187 422 036           |
| 25                                         | 37 - 39                 | 1 1/2         | 500                  | 240 | 72  | 80  | 185 | 572  | 49                | 187 422 039           |
| 32                                         | 40 - 42                 | 1 5/8         | 600                  | 310 | 80  | 90  | 210 | 680  | 65                | 187 422 042           |
| 40                                         | 43 - 48                 | 1 3/4 - 1 7/8 | 640                  | 325 | 90  | 100 | 225 | 730  | 100               | 187 422 048           |
| 50                                         | 49 - 52                 | 2             | 720                  | 375 | 100 | 110 | 245 | 820  | 150               | 187 422 052           |
| 64                                         | 54 - 58                 | 2 1/4         | 775                  | 400 | 110 | 120 | 265 | 885  | 175               | 187 422 058           |
| 80                                         | 61 - 64                 | 2 1/2         | 900                  | 470 | 120 | 130 | 290 | 1020 | 230               | 187 422 064           |
| 90                                         | 72 - 76                 | 3             | 1000                 | 500 | 130 | 150 | 330 | 1130 | 300               | 187 422 076           |
| 100                                        | 81 - 86                 | 3 1/8 - 3 1/4 | 1125                 | 550 | 135 | 165 | 360 | 1260 | 425               | 187 422 086           |

Soketler mavi boyalıdır, ancak istenirse sıcak daldırma galvaniz temin edilir.

Bütün soketler için EN 10204-2.1 normunda uygunluk sertifikası ve EN 10204-3.1 normunda malzeme sertifikası verilir. EC beyanı 2006/42/EC, ek II-A makina direktifine uygundur.

Standard sockets normally are painted in blue. Hot dipped galvanized is also available.

All sockets can be provided with declaration of compliance acc. to EN 10204-2.1

Material certificate is acc. to EN 10204-3.1 and EC Declaration is acc. to machine directive 2006/42/EC, appendix II-A.





# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES

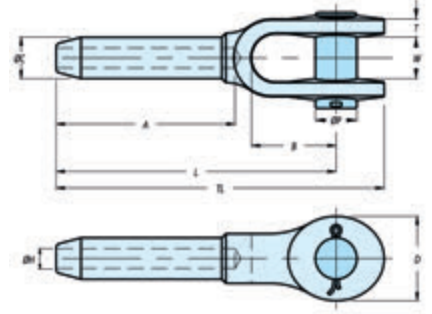


### AÇIK BASKI TİP SOKET TİP SSO / SWAGE SOCKETS OPEN TYPE SSO

Dövme karbon çelik

Forged carbon steel

| Halat Çapı<br>Rope Dia. |       | Ölçüler / Dimensions |      |       |     |      |     |     |    |     |     | Ağırlık<br>Weight | Stok No.<br>Stock No. |
|-------------------------|-------|----------------------|------|-------|-----|------|-----|-----|----|-----|-----|-------------------|-----------------------|
|                         |       | øC                   | øH   | øP    | B   | TL   | A   | L   | T  | W   | D   |                   |                       |
| mm                      | inch  | mm                   | mm   | mm    | mm  | mm   | mm  | mm  | mm | mm  | mm  | kg                |                       |
| 6                       | 1/4   | 12,7                 | 6,85 | 17,5  | 38  | 121  | 54  | 102 | 8  | 17  | 35  | 0,25              | 187 501 006           |
| 8                       | 5/16  | 19,6                 | 8,65 | 20,6  | 44  | 159  | 81  | 135 | 10 | 21  | 41  | 0,5               | 187 501 008           |
| 10                      | 3/8   | 19,6                 | 10,4 | 20,6  | 44  | 159  | 81  | 135 | 10 | 21  | 41  | 0,5               | 187 501 010           |
| 11                      | 7/16  | 24,9                 | 12,2 | 25,4  | 51  | 198  | 108 | 169 | 13 | 25  | 51  | 1,1               | 187 501 011           |
| 13                      | 1/2   | 24,9                 | 14   | 25,4  | 51  | 198  | 108 | 169 | 13 | 25  | 51  | 1,1               | 187 501 013           |
| 14                      | 9/16  | 31,8                 | 15,5 | 30,2  | 57  | 243  | 135 | 206 | 16 | 32  | 63  | 2,1               | 187 501 014           |
| 16                      | 5/8   | 31,8                 | 17   | 30,2  | 57  | 243  | 135 | 206 | 16 | 32  | 63  | 2,1               | 187 501 016           |
| 19                      | 3/4   | 39,4                 | 20,3 | 35,1  | 70  | 297  | 162 | 254 | 19 | 38  | 76  | 3,6               | 187 501 019           |
| 22                      | 7/8   | 43,2                 | 23,9 | 41,1  | 83  | 346  | 189 | 295 | 23 | 44  | 86  | 5,3               | 187 501 022           |
| 25                      | 1     | 50,5                 | 26,9 | 51    | 95  | 397  | 216 | 340 | 26 | 51  | 102 | 8,1               | 187 501 025           |
| 29                      | 1 1/8 | 57                   | 30,2 | 57    | 108 | 444  | 243 | 381 | 30 | 57  | 114 | 13,5              | 187 501 029           |
| 32                      | 1 1/4 | 64,5                 | 33,8 | 63,5  | 121 | 494  | 270 | 419 | 30 | 63  | 127 | 16,4              | 187 501 032           |
| 35                      | 1 3/8 | 71                   | 36,8 | 63,5  | 133 | 540  | 297 | 460 | 33 | 63  | 133 | 21,4              | 187 501 035           |
| 38                      | 1 1/2 | 78                   | 40,1 | 70    | 146 | 591  | 324 | 502 | 37 | 76  | 146 | 29,5              | 187 501 038           |
| 44                      | 1 3/4 | 86                   | 47,2 | 89    | 171 | 689  | 378 | 584 | 43 | 89  | 178 | 42,2              | 187 501 044           |
| 51                      | 2     | 100                  | 53,5 | 95,5  | 203 | 798  | 432 | 679 | 46 | 102 | 203 | 65,8              | 187 501 051           |
| 57                      | 2 1/4 | 113                  | 59,9 | 108   | 171 | 835  | 486 | 705 | 65 | 114 | 222 | 93,5              | 187 501 057           |
| 63                      | 2 1/2 | 125,2                | 67,5 | 108   | 171 | 879  | 498 | 749 | 65 | 114 | 222 | 103               | 187 501 063           |
| 76                      | 3     | 150,6                | 80,4 | 133,4 | 219 | 1045 | 603 | 905 | 76 | 146 | 241 | 181,5             | 187 501 076           |

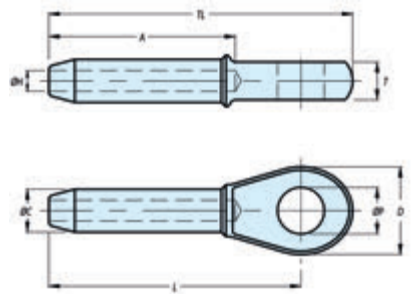


### KAPALI BASKI TİP SOKET TİP SSC / SWAGE SOCKETS CLOSED TYPE SSC

Dövme karbon çelik

Forged carbon steel

| Halat Çapı<br>Rope Dia. |       | Ölçüler / Dimensions |      |     |       |     |     |     |     | Ağırlık<br>Weight | Stok No.<br>Stock No. |
|-------------------------|-------|----------------------|------|-----|-------|-----|-----|-----|-----|-------------------|-----------------------|
|                         |       | øC                   | øH   | D   | øP    | T   | A   | TL  | L   |                   |                       |
| mm                      | inch  | mm                   | mm   | mm  | mm    | mm  | mm  | mm  | mm  | kg                |                       |
| 6                       | 1/4   | 12,7                 | 6,85 | 37  | 19,1  | 13  | 54  | 111 | 89  | 0,15              | 187 502 006           |
| 8                       | 5/16  | 19,6                 | 8,65 | 43  | 22,4  | 17  | 81  | 140 | 114 | 0,36              | 187 502 008           |
| 10                      | 3/8   | 19,6                 | 10,4 | 43  | 22,4  | 17  | 81  | 140 | 114 | 0,35              | 187 502 010           |
| 11                      | 7/16  | 24,9                 | 12,2 | 51  | 26,9  | 22  | 108 | 176 | 146 | 0,7               | 187 502 011           |
| 13                      | 1/2   | 24,9                 | 14   | 51  | 26,9  | 22  | 108 | 176 | 146 | 0,7               | 187 502 013           |
| 14                      | 9/16  | 31,8                 | 15,5 | 63  | 31,8  | 29  | 135 | 222 | 184 | 1,3               | 187 502 014           |
| 16                      | 5/8   | 31,8                 | 17   | 63  | 31,8  | 29  | 135 | 222 | 184 | 1,3               | 187 502 016           |
| 19                      | 3/4   | 39,4                 | 20,3 | 76  | 36,6  | 33  | 162 | 264 | 219 | 2,3               | 187 502 019           |
| 22                      | 7/8   | 43,2                 | 23,9 | 89  | 42,9  | 38  | 189 | 308 | 257 | 3,4               | 187 502 022           |
| 25                      | 1     | 50,5                 | 26,9 | 102 | 52,5  | 44  | 216 | 349 | 292 | 5,1               | 187 502 025           |
| 29                      | 1 1/8 | 57                   | 30,2 | 114 | 58,5  | 51  | 243 | 387 | 324 | 7,2               | 187 502 029           |
| 32                      | 1 1/4 | 64,5                 | 33,8 | 127 | 65    | 57  | 270 | 438 | 365 | 10,5              | 187 502 032           |
| 35                      | 1 3/8 | 71                   | 36,8 | 133 | 65    | 57  | 297 | 479 | 400 | 14,1              | 187 502 035           |
| 38                      | 1 1/2 | 78                   | 40,1 | 140 | 71,5  | 63  | 324 | 518 | 432 | 17,7              | 187 502 038           |
| 44                      | 1 3/4 | 86                   | 47,2 | 171 | 90,5  | 76  | 378 | 610 | 508 | 23,6              | 187 502 044           |
| 51                      | 2     | 100                  | 53,5 | 197 | 96,5  | 83  | 432 | 698 | 584 | 40,8              | 187 502 051           |
| 57                      | 2 1/4 | 113                  | 59,9 | 219 | 109,5 | 102 | 486 | 756 | 632 | 55,4              | 187 502 057           |
| 63                      | 2 1/2 | 125,2                | 67,5 | 219 | 109,5 | 102 | 498 | 791 | 667 | 64,4              | 187 502 063           |
| 76                      | 3     | 150,6                | 80,4 | 235 | 134,9 | 137 | 603 | 959 | 816 | 114,3             | 187 502 076           |



Baskı tip soketler 6x19 veya 6x37 çapraz sarımlı çelik özlü halatlar ve özellikle köprü halatları için tavsiye edilir. Kendir Özlü halatlar için tavsiye edilmez.

Başka tip, sarımlı veya rezistanslı halatlara uygulanırsa, kullanmadan önce deneme testi tavsiye edilir. Soketler takıldıkları halatların katalog kopma değerlerine %100 uyum gösterir.

Soğuk baskıya uygun özel çelikten imal edilmiştir.

Swage sockets are recommended for use on 6x19 or 6x37 IWRC regular lay ropes and also satisfactory on galvanized bridge ropes.

They are not recommended for use on fiber core ropes.

Before using swage sockets with other type lay, construction or grade or wire rope, it is recommended that the termination be proofloaded to prove the adequacy of the assembly.

Sockets properly applied have an efficiency rating of 100% based on the catalog strength of the used wire rope.

Forged from special steel for cold swaging.

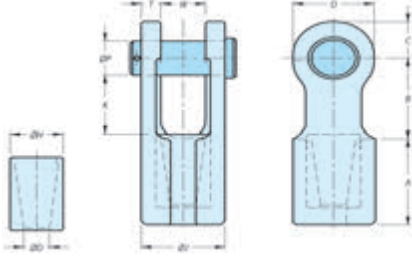
LÜTFEN UYGULAMA TALİMATLARINI VE UYARILARI DİKKATE ALINIZ / PLEASE SEE OUR WARNINGS AND APPLICATION INSTRUCTIONS



### PRATİK TAKMALI SOKET TİP FCS / FAST CONNECTOR SOCKETS TYPE FCS

Alaşımlı çelik döküm

Alloy cast steel



| Güvenli Çalışma Yüğü<br><i>Working Load Limit</i> | Halat Çapı<br><i>Rope Dia.</i> |            | Ölçüler / <i>Dimensions</i> |     |    |    |    |    |    |     |    |     |     |     | Ağırlık<br><i>Weight</i> | Stok No.<br><i>Stock No.</i> |
|---------------------------------------------------|--------------------------------|------------|-----------------------------|-----|----|----|----|----|----|-----|----|-----|-----|-----|--------------------------|------------------------------|
|                                                   |                                |            | A                           | B   | C  | øD | øP | T  | W  | D   | øH | øJ  | K   |     |                          |                              |
| ton                                               | mm                             | inch       | mm                          | mm  | mm | mm | mm | mm | mm | mm  | mm | mm  | mm  | kg  |                          |                              |
| 3,2                                               | 11 - 13                        | 7/16 - 1/2 | 62                          | 61  | 27 | 15 | 25 | 12 | 25 | 50  | 33 | 49  | 46  | 1,6 | 187 423 013              |                              |
| 5                                                 | 13 - 16                        | 1/2 - 5/8  | 72                          | 78  | 32 | 18 | 30 | 14 | 32 | 58  | 38 | 60  | 59  | 2,6 | 187 423 016              |                              |
| 6,3                                               | 16 - 19                        | 5/8 - 3/4  | 85                          | 93  | 40 | 21 | 35 | 16 | 38 | 70  | 45 | 70  | 69  | 4,5 | 187 423 019              |                              |
| 8                                                 | 20 - 22                        | 7/8        | 102                         | 106 | 45 | 24 | 41 | 19 | 44 | 80  | 50 | 82  | 81  | 6,5 | 187 423 022              |                              |
| 12,6                                              | 23 - 26                        | 1          | 115                         | 123 | 60 | 28 | 51 | 22 | 51 | 104 | 60 | 95  | 90  | 11  | 187 423 026              |                              |
| 16                                                | 27 - 29                        | 1 1/8      | 140                         | 152 | 65 | 32 | 57 | 25 | 57 | 114 | 70 | 107 | 116 | 16  | 187 423 029              |                              |
| 20                                                | 30 - 32                        | 1 1/4      | 150                         | 159 | 73 | 36 | 63 | 28 | 63 | 126 | 80 | 119 | 120 | 18  | 187 423 032              |                              |
| 20                                                | 33 - 36                        | 1 3/8      | 160                         | 171 | 73 | 39 | 64 | 28 | 69 | 126 | 85 | 125 | 130 | 23  | 187 423 036              |                              |

Soketler mavi boyalıdır, ancak istenirse sıcak daldırma galvaniz temin edilir.  
Bütün soketler için EN 10204-2.1 normunda uygunluk sertifikası ve EN 10204-3.1 normunda malzeme sertifikası verilir. EC beyanı 2006/42/EC, ek II-A makina direktifine uygundur.

Standard sockets normally are painted in blue. Hot dipped galvanized is also available.  
All sockets can be provided with declaration of compliance acc. to EN 10204-2.1  
Material certificate is acc. to EN 10204-3.1 and EC Declaration is acc. to machine directive 2006/42/EC, appendix II-A.

### HALAT ÇAPINA GÖRE KULLANILACAK TUTYA MİKTAR TABLOSU

#### GUIDE TO AMOUNT OF WIRELOCK REQUIRED

| Ölçü<br>Size | Stok No.<br>Stock No. |
|--------------|-----------------------|
| CC           |                       |
| 500          | 187 900 050           |
| 1000         | 187 900 100           |



| Çelik Halat Ölçüsü<br>Wire Rope Size | Tutya Mikarı<br>WIRELOCK Required | Çelik Halat Ölçüsü<br>Wire Rope Size | Tutya Mikarı<br>WIRELOCK Required |
|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|
| mm                                   | cc                                | mm                                   | cc                                |
| 6-7                                  | 9                                 | 44                                   | 700                               |
| 8                                    | 17                                | 48                                   | 700                               |
| 9-10                                 | 17                                | 51                                   | 1265                              |
| 11                                   | 35                                | 54                                   | 1265                              |
| 13                                   | 35                                | 56                                   | 1410                              |
| 14                                   | 52                                | 60                                   | 1410                              |
| 16                                   | 52                                | 64                                   | 1830                              |
| 20                                   | 86                                | 67                                   | 1830                              |
| 22                                   | 125                               | 70                                   | 2250                              |
| 26                                   | 160                               | 76                                   | 3160                              |
| 28                                   | 210                               | 82                                   | 3795                              |
| 32                                   | 350                               | 88                                   | 4920                              |
| 36                                   | 350                               | 94                                   | 5980                              |
| 40                                   | 420                               | 102                                  | 7730                              |
| 42                                   | 495                               |                                      |                                   |

% 100 Etkili sonuç  
-54° C ile +115° C arasında kullanılır  
Uzun ömürlü

100 % Termination efficiency  
Temperature operating range is -54° C to +115° C  
Improved fatigue life





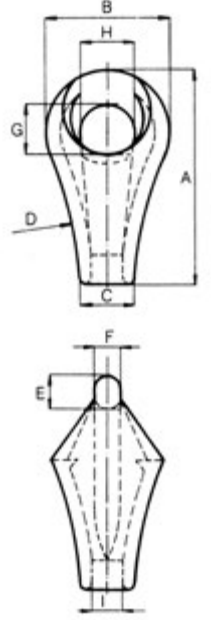


# ÇELİK HALAT AKSESUARLARI WIRE ROPE ACCESSORIES



## ARMUT TİP SOKET / ROPE PEAR SOCKET

| Ölçü<br>Size | Halat Çapı<br>Rope Dia. | Güvenli<br>Çalışma Yüğü<br>Working Load Limit | Kopma Yüğü<br>Breaking Load | Ölçüler / Dimensions |     |    |     |      |      |    |    |    |  | Birim<br>Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|-------------------------|-----------------------------------------------|-----------------------------|----------------------|-----|----|-----|------|------|----|----|----|--|---------------------------------------|-----------------------|
|              | mm                      | kg                                            | kg                          | A                    | B   | C  | D   | E    | F    | G  | H  | I  |  | kg                                    |                       |
| 1            | 10-11                   | 1500                                          | 10000                       | 81                   | 48  | 22 | 195 | 12   | 11,5 | 20 | 24 | 12 |  | 0,4                                   | 187 680 010           |
| 2            | 12-13                   | 2000                                          | 14000                       | 94                   | 56  | 25 | 195 | 15,5 | 13,5 | 22 | 25 | 14 |  | 0,5                                   | 187 680 020           |
| 3            | 14-15                   | 2500                                          | 17500                       | 108                  | 64  | 28 | 220 | 17,5 | 15,5 | 24 | 29 | 16 |  | 0,6                                   | 187 680 030           |
| 4            | 16-17                   | 3000                                          | 22500                       | 122                  | 70  | 31 | 220 | 19,5 | 17,5 | 26 | 31 | 18 |  | 0,9                                   | 187 680 040           |
| 5            | 18-19                   | 4500                                          | 27500                       | 135                  | 84  | 33 | 245 | 21   | 19   | 30 | 42 | 20 |  | 1,3                                   | 187 680 050           |
| 6            | 20-21                   | 5000                                          | 35000                       | 152                  | 84  | 36 | 310 | 23   | 21   | 33 | 38 | 23 |  | 1,7                                   | 187 680 060           |
| 7            | 22-24                   | 7000                                          | 42500                       | 166                  | 100 | 40 | 310 | 26   | 23   | 37 | 48 | 26 |  | 2,3                                   | 187 680 070           |
| 8            | 25-27                   | 8000                                          | 52500                       | 186                  | 100 | 43 | 350 | 28   | 25   | 39 | 44 | 29 |  | 3,2                                   | 187 680 080           |
| 9            | 28-30                   | 11000                                         | 70000                       | 202                  | 120 | 45 | 350 | 31   | 27   | 40 | 58 | 32 |  | 4,1                                   | 187 680 090           |
| 10           | 31-33                   | 13000                                         | 85000                       | 222                  | 120 | 52 | 445 | 32   | 28,5 | 45 | 56 | 35 |  | 5,2                                   | 187 680 100           |
| 11           | 34-36                   | 15000                                         | 95000                       | 239                  | 142 | 55 | 445 | 36   | 31,5 | 50 | 70 | 38 |  | 6,4                                   | 187 680 110           |
| 12           | 37-39                   | 17000                                         | 110000                      | 264                  | 142 | 60 | 495 | 39   | 34,5 | 51 | 64 | 41 |  | 7,9                                   | 187 680 120           |
| 13           | 40-42                   | 21000                                         | 125000                      | 285                  | 166 | 63 | 555 | 43   | 36,5 | 59 | 80 | 44 |  | 9,5                                   | 187 680 130           |
| 14           | 43-45                   | 26000                                         | 155000                      | 312                  | 166 | 68 | 595 | 47   | 40   | 62 | 72 | 48 |  | 11,2                                  | 187 680 140           |
| 15           | 46-48                   | 30000                                         | 180000                      | 337                  | 170 | 75 | 595 | 51   | 44   | 66 | 68 | 51 |  | 13                                    | 187 680 150           |
| 17           | 52-56                   | 42500                                         | 240000                      | 400                  | 220 | 84 | 880 | 60   | 54   | 75 | 90 | 59 |  | 23                                    | 187 680 170           |



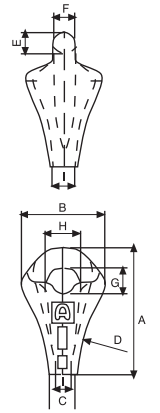
## ARMUT TİP SOKET TİP S / ROPE PEAR SOCKET TYPE S

Özellikle kompakt ve özel halatlar içindir.  
(örneğin CASAR Turboplast)

Especially for compacted and special steel wire ropes.  
(for example CASAR Turboplast)

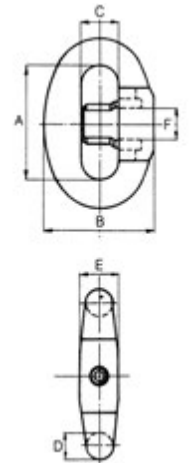
| Ölçü<br>Size | Halat Çapı<br>Rope Dia. | Güvenli<br>Çalışma Yüğü<br>Working Load Limit | Kopma Yüğü<br>Breaking Load | Ölçüler / Dimensions |     |    |     |    |      |    |    |    |  | Birim<br>Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|-------------------------|-----------------------------------------------|-----------------------------|----------------------|-----|----|-----|----|------|----|----|----|--|---------------------------------------|-----------------------|
|              | mm                      | kg                                            | kg                          | A                    | B   | C  | D   | E  | F    | G  | H  | I  |  | kg                                    |                       |
| 924          | 22-24                   | 11000                                         | 70000                       | 202                  | 132 | 40 | 325 | 31 | 27   | 40 | 58 | 27 |  | 4                                     | 187 692 224           |
| 1026         | 25-27                   | 13000                                         | 85000                       | 222                  | 143 | 43 | 375 | 32 | 28,5 | 46 | 66 | 30 |  | 5                                     | 187 692 527           |
| 1130         | 28-30                   | 15000                                         | 95000                       | 239                  | 156 | 45 | 400 | 36 | 31,5 | 50 | 70 | 33 |  | 7                                     | 187 692 830           |
| 1232         | 31-33                   | 17000                                         | 110000                      | 249                  | 165 | 52 | 425 | 39 | 34,5 | 52 | 72 | 36 |  | 8,5                                   | 187 693 133           |
| 1336         | 34-36                   | 21000                                         | 125000                      | 285                  | 184 | 55 | 450 | 43 | 36,5 | 60 | 80 | 40 |  | 9,5                                   | 187 693 436           |
| 1440         | 37-40                   | 26000                                         | 155000                      | 297                  | 192 | 60 | 475 | 47 | 40   | 62 | 80 | 44 |  | 12                                    | 187 693 740           |
| 3221         | 42-44                   | 32500                                         | 189000                      | 314                  | 204 | 66 | 425 | 53 | 46   | 70 | 80 | 47 |  | 13,5                                  | 187 694 244           |
| 1548         | 46-48                   | 30000                                         | 180000                      | 329                  | 192 | 67 | 575 | 51 | 44   | 66 | 80 | 52 |  | 12,5                                  | 187 694 648           |
| 1648         | 46-48                   | 36000                                         | 215000                      | 343                  | 218 | 70 | 500 | 56 | 50   | 75 | 90 | 52 |  | 18                                    | 187 694 649           |

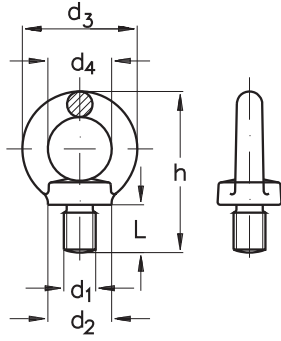
YENİ ÜRÜN



## ARMUT TİP SOKET KİLİDİ / QUICK RELEASE LINK

| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load Limit | Kopma Yüğü<br>Breaking Load | Ölçüler / Dimensions |     |      |    |    |    | Birim<br>Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------|-----------------------------------------------|-----------------------------|----------------------|-----|------|----|----|----|---------------------------------------|-----------------------|
|              | kg                                            | kg                          | A                    | B   | C    | D  | E  | F  | kg                                    |                       |
| 4            | 3000                                          | 25000                       | 76                   | 76  | 24,5 | 19 | 30 | 21 | 0,9                                   | 187 681 040           |
| 5            | 4500                                          | 33000                       | 84                   | 84  | 27   | 21 | 33 | 23 | 1,2                                   | 187 681050            |
| 6            | 5000                                          | 37500                       | 92                   | 92  | 29,5 | 23 | 35 | 25 | 1,5                                   | 187 681 060           |
| 7            | 7000                                          | 49000                       | 100                  | 100 | 32   | 25 | 38 | 28 | 2                                     | 187 681 070           |
| 8            | 8000                                          | 54000                       | 108                  | 108 | 34,5 | 27 | 41 | 31 | 2,5                                   | 187 681 080           |
| 9            | 9500                                          | 60000                       | 116                  | 116 | 37   | 29 | 44 | 34 | 3,1                                   | 187 681 090           |
| 10           | 12000                                         | 75000                       | 128                  | 128 | 40,5 | 32 | 48 | 37 | 4,4                                   | 187 681 100           |
| 11           | 15000                                         | 95000                       | 140                  | 140 | 44   | 35 | 53 | 40 | 5,7                                   | 187 681 110           |
| 12           | 17000                                         | 110000                      | 152                  | 152 | 47,5 | 38 | 57 | 43 | 7,2                                   | 187 681 120           |
| 13           | 21000                                         | 135000                      | 164                  | 164 | 51   | 41 | 62 | 46 | 8,7                                   | 187 681 130           |
| 14           | 26000                                         | 160000                      | 176                  | 173 | 54   | 44 | 66 | 50 | 11                                    | 187 681 140           |
| 15           | 30000                                         | 175000                      | 188                  | 188 | 58   | 47 | 71 | 52 | 13,5                                  | 187 681 150           |
| 17           | 42500                                         | 260000                      | 222                  | 222 | 68   | 56 | 84 | 62 | 23                                    | 187 681 170           |





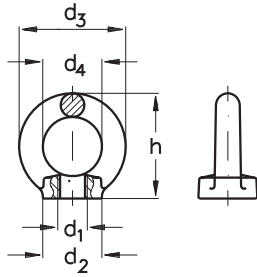
### ERKEK AYBOLT DIN 580:2003-08 / EYE BOLT Acc. to DIN 580:2003-08

Galvanizli, kalite C15E

Galvanized, C15E quality

| Ölçü<br>Size   | Güvenli<br>Çalışma Yüğü (β=0°)<br>Working Load Limit<br>(β=0°) | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | h     | L    | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|----------------|----------------------------------------------------------------|----------------|----------------|----------------|-------|------|------------------------------------|-----------------------|
| d <sub>1</sub> | kg                                                             | mm             | mm             | mm             | mm    | mm   | kg                                 |                       |
| M 6*           | -                                                              | 20             | 36             | 20             | 47,0  | 13,0 | 0,03                               | 106 053 006           |
| M 8            | 140                                                            | 20             | 36             | 20             | 49,0  | 13,0 | 0,06                               | 106 053 008           |
| M 10           | 230                                                            | 25             | 45             | 25             | 63,0  | 17,0 | 0,10                               | 106 053 010           |
| M 12           | 340                                                            | 30             | 54             | 30             | 73,5  | 20,5 | 0,18                               | 106 053 012           |
| M 16           | 700                                                            | 35             | 63             | 35             | 89,0  | 27,0 | 0,28                               | 106 053 016           |
| M 20           | 1200                                                           | 40             | 72             | 40             | 101,0 | 30,0 | 0,42                               | 106 053 020           |
| M 24           | 1800                                                           | 50             | 90             | 50             | 126,0 | 36,0 | 0,83                               | 106 053 024           |
| M 30           | 3200                                                           | 65             | 108            | 60             | 154,0 | 45,0 | 1,66                               | 106 053 030           |
| M 36           | 4600                                                           | 75             | 126            | 70             | 182,0 | 54,0 | 2,65                               | 106 053 036           |
| M 42           | 6300                                                           | 85             | 144            | 80             | 210,0 | 63,0 | 4,03                               | 106 053 042           |
| M 48           | 8600                                                           | 100            | 166            | 90             | 236,0 | 68,0 | 6,32                               | 106 053 048           |

\*Anma ölçüsü M 6 DIN normuna uygun değildir. / \*Nominal size M 6 not acc. to DIN:



### DİŞİ AYBOLT DIN 582:2003-08 / EYE NUT Acc. to DIN 582:2003-08

Galvanizli, kalite C15E

Galvanized, C15E quality

| Ölçü<br>Size   | Güvenli<br>Çalışma Yüğü (β=0°)<br>Working Load Limit<br>(β=0°) | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | h   | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|----------------|----------------------------------------------------------------|----------------|----------------|----------------|-----|------------------------------------|-----------------------|
| d <sub>1</sub> | kg                                                             | mm             | mm             | mm             | mm  | kg                                 |                       |
| M 6*           | 70                                                             | 20             | 36             | 20             | 34  | 0,04                               | 106 051 006           |
| M 8            | 140                                                            | 20             | 36             | 20             | 36  | 0,05                               | 106 051 008           |
| M 10           | 230                                                            | 25             | 45             | 25             | 45  | 0,09                               | 106 051 010           |
| M 12           | 340                                                            | 30             | 54             | 30             | 53  | 0,16                               | 106 051 012           |
| M 16           | 700                                                            | 35             | 63             | 35             | 62  | 0,24                               | 106 051 016           |
| M 20           | 1200                                                           | 40             | 72             | 40             | 71  | 0,35                               | 106 051 020           |
| M 24           | 1800                                                           | 50             | 90             | 50             | 90  | 0,71                               | 106 051 024           |
| M 30           | 3200                                                           | 65             | 108            | 60             | 109 | 1,32                               | 106 051 030           |

\*Anma ölçüsü M 6 DIN normuna uygun değildir. / \*Nominal size M 6 not acc. to DIN





# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES

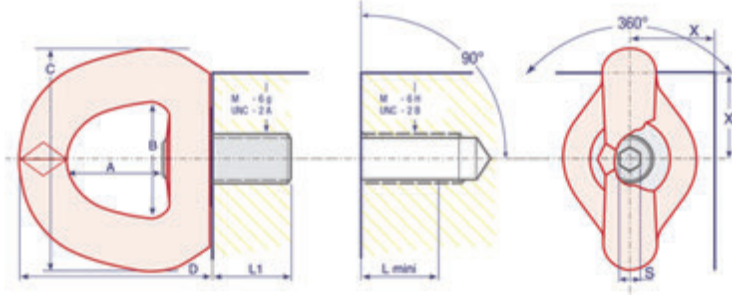
CODIPRO

### FIRDÖNDÜLÜ AYBOLT TİP SEB / SWIVEL EYE BOLT TYPE SEB

Kalite sınıfı >8,CE

Grade >8,CE

| Tip ve Ölçü<br>Type and Size | Güvenli Çalışma<br>Yükü<br>Working Load<br>Limit | Emniyet<br>Kat Sayısı<br>Safety<br>Factor | Çap<br>Diameter | L1 | Tork<br>N.m. | S  | A  | B  | C   | D   | Birim<br>Ağırlığı<br>Weight | Stok No.<br>Stock No. |
|------------------------------|--------------------------------------------------|-------------------------------------------|-----------------|----|--------------|----|----|----|-----|-----|-----------------------------|-----------------------|
|                              | kg                                               |                                           | mm              | mm |              | mm | mm | mm | mm  | mm  | kg                          |                       |
| M 16                         | 1600                                             | 5                                         | M 16 (x2)       | 27 | 50           | 8  | 38 | 45 | 90  | 78  | 0,8                         | 106 361 016           |
| M 20                         | 2500                                             | 5                                         | M 20 (x2,5)     | 30 | 100          | 8  | 38 | 45 | 90  | 78  | 0,8                         | 106 361 020           |
| M 24                         | 4000                                             | 5                                         | M 24 (x3)       | 36 | 160          | 14 | 58 | 70 | 134 | 115 | 2,6                         | 106 361 024           |
| M 30                         | 6300                                             | 5                                         | M 30 (x3,5)     | 45 | 250          | 14 | 58 | 70 | 134 | 115 | 2,7                         | 106 361 030           |
| M 36                         | 10000                                            | 5                                         | M 36 (x4)       | 54 | 320          | 14 | 88 | 94 | 190 | 166 | 8                           | 106 361 036           |
| M 42                         | 12500                                            | 5                                         | M 42 (x4,5)     | 63 | 400          | 14 | 88 | 94 | 190 | 166 | 8,1                         | 106 361 042           |
| M 48                         | 15000                                            | 4                                         | M 48 (x5)       | 68 | 600          | 19 | 88 | 94 | 190 | 166 | 9                           | 106 361 048           |

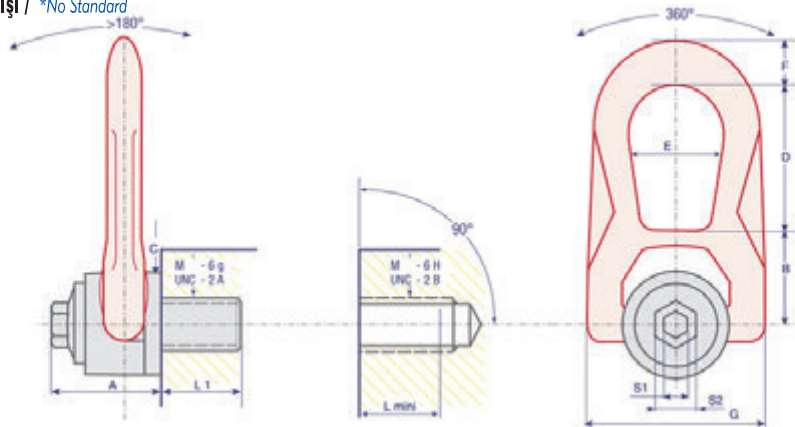


### ÇİFT FIRDÖNDÜLÜ AYBOLT TİP DSR / DOUBLE SWIVEL SHACKLE TYPE DSR

Kalite sınıfı >8,CE

Grade >8,CE

| Tip ve Ölçü<br>Type and Size | Güvenli Çalışma<br>Yükü<br>Working Load<br>Limit | Emniyet<br>Kat Sayısı<br>Safety<br>Factor | Çap<br>Diameter | L1 | Tork<br>N.m. | S1    | S2   | A  | B  | C  | D  | E  | F  | G   | Birim<br>Ağırlığı<br>Weight | Stok No.<br>Stock No. |
|------------------------------|--------------------------------------------------|-------------------------------------------|-----------------|----|--------------|-------|------|----|----|----|----|----|----|-----|-----------------------------|-----------------------|
|                              | kg                                               |                                           | mm              | mm |              | mm    | mm   | mm | mm | mm | mm | mm | mm | mm  | kg                          |                       |
| M 6*                         | 100                                              | 5                                         | M 6 (x1)        | 15 | 4            | 5     | -    | 33 | 30 | 30 | 38 | 27 | 14 | 53  | 0,3                         | 106 363 006           |
| M 8                          | 300                                              | 5                                         | M 8 (x1,25)     | 14 | 6            | 8     | 16   | 33 | 30 | 30 | 38 | 27 | 14 | 53  | 0,3                         | 106 363 008           |
| M 10                         | 600                                              | 5                                         | M 10 (x1,50)    | 17 | 10           | 8     | 16   | 33 | 30 | 30 | 38 | 27 | 14 | 53  | 0,3                         | 106 363 010           |
| M 12                         | 1000                                             | 5                                         | M 12 (x1,75)    | 21 | 15           | 8     | 16   | 33 | 30 | 30 | 38 | 27 | 14 | 53  | 0,3                         | 106 363 012           |
| M 14*                        | 1300                                             | 5                                         | M 14 (x2)       | 23 | 30           | 8     | 20   | 45 | 42 | 45 | 54 | 38 | 17 | 76  | 0,9                         | 106 363 014           |
| M 16                         | 1600                                             | 5                                         | M 16 (x2)       | 27 | 50           | 8     | 20   | 45 | 42 | 45 | 54 | 38 | 17 | 76  | 0,9                         | 106 363 016           |
| M 18*                        | 2000                                             | 5                                         | M 18 (x2,5)     | 27 | 70           | 8     | 20   | 45 | 42 | 45 | 54 | 38 | 17 | 76  | 0,9                         | 106 363 018           |
| M 20                         | 2500                                             | 5                                         | M 20 (x2,5)     | 30 | 100          | 8     | 20   | 45 | 42 | 45 | 54 | 38 | 17 | 76  | 0,9                         | 106 363 020           |
| M 22*                        | 3000                                             | 5                                         | M 22 (x2,5)     | 33 | 120          | 14    | 24   | 62 | 55 | 60 | 83 | 55 | 25 | 107 | 2,6                         | 106 363 022           |
| M 24                         | 4000                                             | 5                                         | M 24 (x3)       | 36 | 160          | 14    | 24   | 62 | 55 | 60 | 83 | 55 | 25 | 107 | 2,6                         | 106 363 024           |
| M 27*                        | 5000                                             | 5                                         | M 27 (x3)       | 40 | 200          | 14    | 24   | 62 | 55 | 60 | 83 | 55 | 25 | 107 | 2,7                         | 106 363 027           |
| M 30                         | 6300                                             | 5                                         | M 30 (x3,5)     | 45 | 250          | 14    | 24   | 62 | 55 | 60 | 83 | 55 | 25 | 107 | 2,7                         | 106 363 030           |
|                              | LBS                                              |                                           |                 |    | Foot.LBS     |       |      |    |    |    |    |    |    |     |                             |                       |
| U 516                        | 650                                              | 5                                         | UNC 5/16"-18    | 15 | 7            | 5/16" | 5/8" | 33 | 30 | 30 | 38 | 27 | 14 | 53  | 0,3                         | 106 363 031           |
| U 038                        | 1200                                             | 5                                         | UNC 3/8"-16     | 17 | 8            | 5/16" | 5/8" | 33 | 30 | 30 | 38 | 27 | 14 | 53  | 0,3                         | 106 363 038           |
| U 050                        | 2200                                             | 5                                         | UNC 1/2"-13     | 21 | 12           | 5/16" | 5/8" | 33 | 30 | 30 | 38 | 27 | 14 | 53  | 0,3                         | 106 363 050           |
| U 058                        | 3800                                             | 5                                         | UNC 5/8"-11     | 24 | 40           | 5/16" | 20   | 45 | 42 | 45 | 54 | 38 | 17 | 76  | 0,9                         | 106 363 063           |
| U 075                        | 5500                                             | 5                                         | UNC 3/4"-10     | 30 | 80           | 5/16" | 20   | 45 | 42 | 45 | 54 | 38 | 17 | 76  | 0,9                         | 106 363 075           |
| U 078                        | 6600                                             | 5                                         | UNC 7/8"-9      | 33 | 100          | 9/16" | 24   | 62 | 55 | 60 | 83 | 55 | 25 | 117 | 2,5                         | 106 363 088           |
| U 100                        | 10000                                            | 5                                         | UNC 1"-8        | 36 | 125          | 9/16" | 24   | 62 | 55 | 60 | 83 | 55 | 25 | 107 | 2,6                         | 106 363 100           |



1000 LBS = 0,4536 TON

\* Standart Dışı / \*No Standard



### ÇİFT FIRDÖNDÜLÜ AYBOLT TİP DSS / DOUBLE SWIVEL SHACKLE TYPE DSS

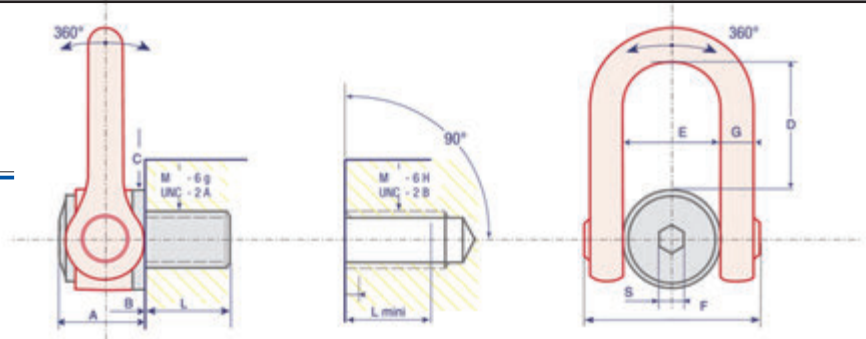
Kalite sınıfı &gt;8,CE

Grade &gt;8,CE



| Tip ve Ölçü<br>Type and Size | Güvenli Çalışma<br>Yükü<br>Working Load<br>Limit | Emniyet<br>Kat Sayısı<br>Safety Factor | Çap<br>Diameter | L  | Tork<br>N.m. | S  | A  | B  | C  | D   | E  | F   | G  | Birim<br>Ağırlığı<br>Weight | Stok No.<br>Stock No. |
|------------------------------|--------------------------------------------------|----------------------------------------|-----------------|----|--------------|----|----|----|----|-----|----|-----|----|-----------------------------|-----------------------|
|                              | kg                                               |                                        | mm              | mm |              | mm | mm | mm | mm | mm  | mm | mm  | mm | kg                          |                       |
| M 30                         | 7300                                             | 5                                      | M 30 (x3,5)     | 45 | 250          | 19 | 61 | 31 | 70 | 104 | 73 | 145 | 29 | 5,5                         | 106 365 030           |
| M 33*                        | 8000                                             | 5                                      | M 33 (x3,5)     | 50 | 250          | 19 | 61 | 31 | 70 | 104 | 73 | 145 | 29 | 5,5                         | 106 365 033           |
| M 36                         | 10000                                            | 5                                      | M 36 (x4)       | 54 | 320          | 19 | 61 | 31 | 70 | 104 | 73 | 145 | 29 | 5,5                         | 106 365 036           |
| M 36x3*                      | 10000                                            | 5                                      | M 36 (x3)       | 54 | 320          | 19 | 61 | 31 | 70 | 104 | 73 | 145 | 29 | 5,5                         | 106 365 363           |
| M 39*                        | 10000                                            | 5                                      | M 39 (x4)       | 58 | 320          | 19 | 61 | 31 | 70 | 104 | 73 | 145 | 29 | 5,7                         | 106 365 039           |
| M 42                         | 12500                                            | 5                                      | M 42 (x4,5)     | 63 | 400          | 19 | 61 | 31 | 70 | 104 | 73 | 145 | 29 | 5,8                         | 106 365 042           |
| M 42x3*                      | 12500                                            | 5                                      | M 42 (x3)       | 63 | 400          | 19 | 61 | 31 | 70 | 104 | 73 | 145 | 29 | 5,8                         | 106 365 423           |
| M 45*                        | 15000                                            | 4                                      | M 45 (x4,5)     | 63 | 400          | 19 | 61 | 31 | 70 | 104 | 73 | 145 | 29 | 5,7                         | 106 365 045           |
| M 48                         | 20000                                            | 4                                      | M 48 (x5)       | 68 | 600          | 19 | 79 | 38 | 90 | 125 | 91 | 184 | 33 | 11                          | 106 365 048           |
| M 48x3*                      | 20000                                            | 4                                      | M 48 (x3)       | 68 | 600          | 19 | 79 | 38 | 90 | 125 | 91 | 184 | 33 | 11                          | 106 365 483           |
| M 48x4*                      | 20000                                            | 4                                      | M 48 (x4)       | 68 | 600          | 19 | 79 | 38 | 90 | 125 | 91 | 184 | 33 | 11                          | 106 365 484           |
| M 52*                        | 20000                                            | 4                                      | M 52 (x5)       | 68 | 600          | 19 | 79 | 38 | 90 | 125 | 91 | 184 | 33 | 11,2                        | 106 365 052           |
| M 56                         | 25000                                            | 4                                      | M 56 (x5,5)     | 78 | 600          | 19 | 79 | 38 | 90 | 125 | 91 | 184 | 33 | 11,3                        | 106 365 056           |
| M 56x4*                      | 25000                                            | 4                                      | M 56 (x4)       | 78 | 600          | 19 | 79 | 38 | 90 | 125 | 91 | 184 | 33 | 11,4                        | 106 365 564           |
| M 64                         | 32100                                            | 4                                      | M 64 (x6)       | 90 | 600          | 19 | 79 | 38 | 95 | 125 | 91 | 184 | 33 | 12,2                        | 106 365 064           |
| M 64x4*                      | 32100                                            | 4                                      | M 64 (x4)       | 90 | 600          | 19 | 79 | 38 | 95 | 125 | 91 | 184 | 33 | 12,2                        | 106 365 644           |
| M 72*                        | 25000                                            | 4                                      | M 72 (x6)       | 90 | 600          | 19 | 79 | 38 | 95 | 125 | 91 | 184 | 33 | 14                          | 106 365 072           |
| M 72x4*                      | 25000                                            | 4                                      | M 72 (x4)       | 90 | 600          | 19 | 79 | 38 | 95 | 125 | 91 | 184 | 33 | 14                          | 106 365 724           |
| M 80*                        | 32100                                            | 4                                      | M 80 (x6)       | 90 | 600          | 19 | 79 | 38 | 95 | 125 | 91 | 184 | 33 | 15                          | 106 365 080           |
| M 90*                        | 32100                                            | 4                                      | M 90 (x6)       | 90 | 600          | 19 | 79 | 38 | 95 | 125 | 91 | 184 | 33 | 15,5                        | 106 365 090           |
| M 100*                       | 32100                                            | 4                                      | M 100 (x6)      | 90 | 600          | 19 | 79 | 38 | 95 | 125 | 91 | 184 | 33 | 16,5                        | 106 365 100           |

\* Standart Dışı / \*No Standard



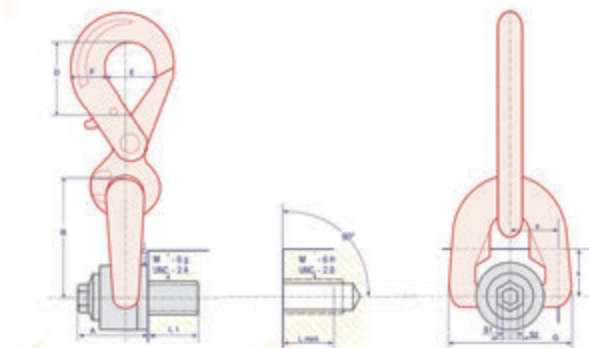
### KANCALI AYBOLT TİP DSH / SWIVEL EYE BOLT WITH HOOK TYPE DSH

Kalite sınıfı &gt;8,CE

Grade &gt;8,CE

| Tip ve Ölçü<br>Type and Size | Güvenli Çalışma<br>Yükü<br>Working Load<br>Limit | Emniyet<br>Kat Sayısı<br>Safety Factor | Çap<br>Diameter | L1 | Tork<br>N.m. | S1 | S2 | A  | B  | C  | D  | E  | F  | G  | Birim<br>Ağırlığı<br>Weight | Stok No.<br>Stock No. |
|------------------------------|--------------------------------------------------|----------------------------------------|-----------------|----|--------------|----|----|----|----|----|----|----|----|----|-----------------------------|-----------------------|
|                              | kg                                               |                                        | mm              | mm |              | mm | mm | mm | mm | mm | mm | mm | mm | mm | kg                          |                       |
| M 8                          | 300                                              | 5                                      | M 8 (x1,25)     | 14 | 6            | 8  | 16 | 33 | 56 | 30 | 44 | 32 | 23 | 58 | 0,8                         | 106 369 008           |
| M 10                         | 600                                              | 5                                      | M 10 (x1,5)     | 17 | 10           | 8  | 16 | 33 | 56 | 30 | 44 | 32 | 23 | 58 | 0,8                         | 106 369 010           |
| M 12                         | 1000                                             | 5                                      | M 12 (x1,75)    | 21 | 15           | 8  | 16 | 33 | 56 | 30 | 44 | 32 | 23 | 58 | 0,8                         | 106 369 012           |
| M 14*                        | 1300                                             | 5                                      | M 14 (x2)       | 23 | 30           | 8  | 20 | 45 | 76 | 45 | 58 | 46 | 29 | 79 | 1,9                         | 106 369 014           |
| M 16                         | 1600                                             | 5                                      | M 16 (x2)       | 27 | 50           | 8  | 20 | 45 | 76 | 45 | 58 | 46 | 29 | 79 | 2                           | 106 369 016           |
| M 18*                        | 2000                                             | 5                                      | M 18 (x2,5)     | 27 | 70           | 8  | 20 | 45 | 76 | 45 | 58 | 46 | 29 | 79 | 2                           | 106 369 018           |
| M 20                         | 2500                                             | 5                                      | M 20 (x2,5)     | 30 | 100          | 8  | 20 | 45 | 81 | 45 | 58 | 46 | 29 | 79 | 2                           | 106 369 020           |

\*Standart Dışı / \*No Standard







# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES

CODIPRO

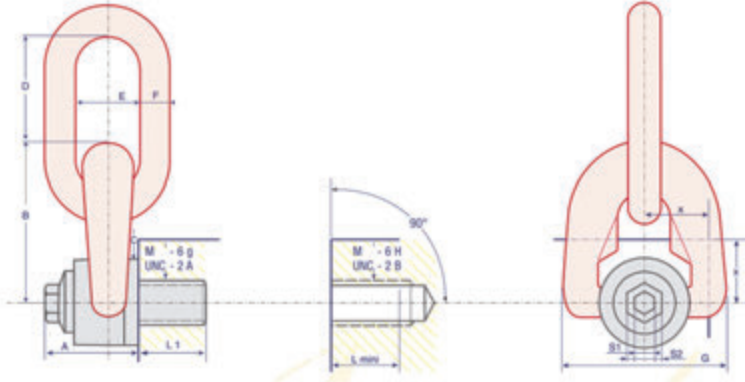
### HALKALI AYBOLT TİP TSR / SWIVEL EYE BOLT WITH LINK TYPE TSR

Kalite sınıfı >8,CE

Grade >8,CE

| Tip ve Ölçü<br>Type and Size | Güvenli Çalışma<br>Yükü<br>Working Load<br>Limit | Emniyet<br>Kat Sayısı<br>Safety Factor | Çap<br>Diameter | L1 | Tork<br>N.m. | S1 | S2 | A   | B   | C   | D   | E  | F  | G   | Birim<br>Ağırlığı<br>Weight | Stok No.<br>Stock No. |
|------------------------------|--------------------------------------------------|----------------------------------------|-----------------|----|--------------|----|----|-----|-----|-----|-----|----|----|-----|-----------------------------|-----------------------|
|                              | kg                                               |                                        | mm              | mm |              | mm | mm | mm  | mm  | mm  | mm  | mm | mm | mm  | kg                          |                       |
| M 8                          | 300                                              | 5                                      | M 8 (x1,25)     | 14 | 6            | 8  | 16 | 33  | 56  | 30  | 41  | 25 | 10 | 58  | 0,4                         | 106 367 008           |
| M 10                         | 600                                              | 5                                      | M 10 (x1,5)     | 17 | 10           | 8  | 16 | 33  | 56  | 30  | 41  | 25 | 10 | 58  | 0,4                         | 106 367 010           |
| M 12                         | 1000                                             | 5                                      | M 12 (x1,75)    | 21 | 15           | 8  | 16 | 33  | 56  | 30  | 41  | 25 | 10 | 58  | 0,4                         | 106 367 012           |
| M 14*                        | 1300                                             | 5                                      | M 14 (x2)       | 23 | 30           | 8  | 20 | 45  | 76  | 45  | 56  | 37 | 14 | 79  | 1,1                         | 106 367 014           |
| M 16                         | 1600                                             | 5                                      | M 16 (x2)       | 27 | 50           | 8  | 20 | 45  | 76  | 45  | 56  | 37 | 14 | 79  | 1,2                         | 106 367 016           |
| M 18*                        | 2000                                             | 5                                      | M 18 (x2,5)     | 27 | 70           | 8  | 20 | 45  | 76  | 45  | 56  | 37 | 14 | 79  | 1,2                         | 106 367 018           |
| M 20                         | 2500                                             | 5                                      | M 20 (x2,5)     | 30 | 100          | 8  | 20 | 45  | 81  | 45  | 56  | 37 | 14 | 79  | 1,2                         | 106 367 020           |
| M 22*                        | 3000                                             | 5                                      | M 22 (x2,5)     | 33 | 120          | 14 | 24 | 62  | 105 | 60  | 80  | 45 | 20 | 106 | 2,8                         | 106 367 022           |
| M 24                         | 4000                                             | 5                                      | M 24 (x3)       | 36 | 160          | 14 | 24 | 62  | 105 | 60  | 80  | 45 | 20 | 106 | 2,9                         | 106 367 024           |
| M 27*                        | 5000                                             | 5                                      | M 27 (x3)       | 36 | 160          | 14 | 24 | 62  | 105 | 60  | 80  | 45 | 20 | 106 | 2,9                         | 106 367 027           |
| M 30                         | 6300                                             | 5                                      | M 30 (x3,5)     | 45 | 250          | 14 | 24 | 62  | 105 | 60  | 80  | 45 | 20 | 106 | 3                           | 106 367 030           |
| M 36                         | 10000                                            | 5                                      | M 36 (x4)       | 54 | 320          | 19 | 30 | 81  | 140 | 80  | 111 | 71 | 30 | 148 | 7,6                         | 106 367 036           |
| M 42                         | 12500                                            | 5                                      | M 42 (x4,5)     | 63 | 400          | 19 | 30 | 84  | 146 | 80  | 111 | 71 | 30 | 148 | 7,8                         | 106 367 042           |
| M 48                         | 20000                                            | 4                                      | M 48 (x5)       | 68 | 600          | 19 | 30 | 100 | 178 | 110 | 135 | 90 | 42 | 180 | 17,5                        | 106 367 048           |
| M 56                         | 22000                                            | 4                                      | M 56 (x5,5)     | 78 | 600          | 19 | 30 | 104 | 184 | 110 | 135 | 90 | 42 | 190 | 18                          | 106 367 056           |

\* Standart Dışı / \*No Standard



TİP CSS / TYPE CSS



TİP OSR / TYPE OSR



TİP FE.DSS / TYPE FE.DSS



TİP SS.DSR / TYPE SS.DSR  
Paslanmaz / Stainless



TİP TSR+C / TYPE TSR+C



TİP DSS+C / TYPE DSS+C



TİP OFT / TYPE OFT



TİP DSP / TYPE DSP



TİP DSR+C / TYPE DSR+C







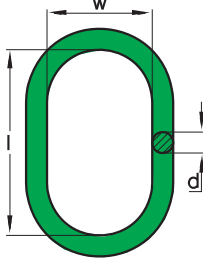
### EN 1677-4

#### ANA HALKA TİP BS

Kalite sınıfı 8 malzemeden 1 veya 2 bacaklı  
EN 13414-1 sapanlar için,  
Yeşil boyalı, üzeri kapasite damgalı

#### MASTER LINK TYPE BS

Grade 80 material, for 1 and 2 leg wire rope  
slings acc.to EN 13414-1  
Green varnished, capacity embossed in links



| Ölçü<br>Size | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit<br>kg | d<br>mm | l<br>mm | w<br>mm | Birim Ağırlığı<br>Weight Per Piece<br>kg | Stok No.<br>Stock No. |
|--------------|--------------------------------------------------------|---------|---------|---------|------------------------------------------|-----------------------|
| B1           | 1000                                                   | 13      | 115     | 65      | 0,40                                     | 197 191 001           |
| B2           | 2000                                                   | 16      | 130     | 65      | 0,68                                     | 197 191 002           |
| B3           | 3200                                                   | 18      | 140     | 75      | 0,95                                     | 197 191 003           |
| B4           | 4000                                                   | 20      | 180     | 90      | 1,45                                     | 197 191 004           |
| B5           | 5000                                                   | 22      | 180     | 90      | 1,80                                     | 197 191 005           |
| B6           | 6300                                                   | 23      | 200     | 100     | 2,15                                     | 197 191 006           |
| B7           | 7000                                                   | 26      | 200     | 100     | 2,75                                     | 197 191 007           |
| B8           | 8000                                                   | 28      | 230     | 115     | 3,70                                     | 197 191 008           |
| B10          | 10000                                                  | 32      | 230     | 115     | 4,30                                     | 197 191 010           |
| B12          | 12500                                                  | 36      | 250     | 125     | 6,00                                     | 197 191 012           |
| B14          | 14000                                                  | 36      | 280     | 150     | 7,55                                     | 197 191 014           |
| B17          | 17500                                                  | 40      | 280     | 150     | 9,35                                     | 197 191 017           |
| B20          | 20000                                                  | 45      | 350     | 180     | 14,60                                    | 197 191 020           |
| B30          | 30000                                                  | 51      | 350     | 180     | 18,70                                    | 197 191 030           |

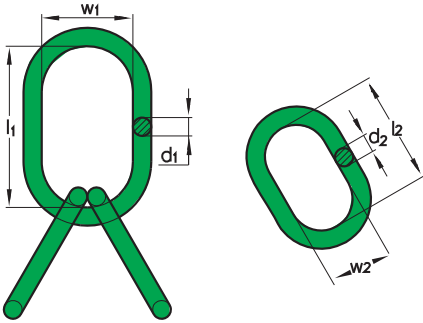
### EN 1677-4

#### ANA HALKA GRUBU TİP BS

Kalite Sınıfı 8 malzeme, 3 veya 4 Bacaklı  
EN 13414-1 sapanlar için,  
Yeşil boyalı, üzeri kapasite damgalı

#### MASTER LINK ASSEMBLY TYPE BS

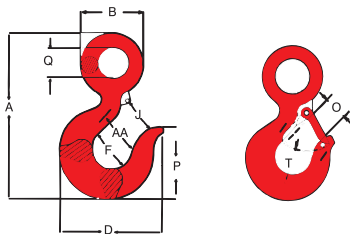
Grade 80 material, for 3 and 4 leg wire rope  
slings acc.to EN 13414-1  
Green varnished, Capacity embossed in links



| Ölçü<br>Size | Halat<br>Çapı<br>Rope Dia. | Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit<br>kg | d <sub>1</sub><br>mm | d <sub>2</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | w <sub>1</sub><br>mm | w <sub>2</sub><br>mm | Birim Ağırlığı<br>Weight Per Piece<br>kg | Stok No.<br>Stock No. |
|--------------|----------------------------|--------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------------------------|-----------------------|
| mm           | mm                         | kg                                                     | mm                   | mm                   | mm                   | mm                   | mm                   | mm                   | kg                                       |                       |
| 2B2          | 10/12                      | 2000                                                   | 16                   | 13                   | 130                  | 80                   | 65                   | 45                   | 1,3                                      | 197 192 002           |
| 2B3          | 13/14                      | 3200                                                   | 18                   | 16                   | 140                  | 90                   | 75                   | 50                   | 1,6                                      | 197 192 003           |
| 2B4          | 16/18                      | 4000                                                   | 22                   | 16                   | 180                  | 105                  | 90                   | 55                   | 2,9                                      | 197 192 004           |
| 2B5          | 18                         | 5000                                                   | 22                   | 18                   | 180                  | 110                  | 90                   | 60                   | 3,3                                      | 197 192 005           |
| 2B6          | 20                         | 6300                                                   | 26                   | 18                   | 200                  | 125                  | 100                  | 65                   | 4,5                                      | 197 192 006           |
| 2B8          | 22                         | 8000                                                   | 26                   | 20                   | 200                  | 125                  | 100                  | 70                   | 4,9                                      | 197 192 008           |
| 2B10         | 24                         | 10000                                                  | 32                   | 22                   | 230                  | 145                  | 115                  | 80                   | 7,8                                      | 197 192 010           |
| 2B12         | 26                         | 12500                                                  | 36                   | 26                   | 250                  | 150                  | 130                  | 90                   | 11,1                                     | 197 192 012           |
| 2B15         | 28                         | 15000                                                  | 36                   | 26                   | 260                  | 160                  | 140                  | 95                   | 11,7                                     | 197 192 015           |
| 2B20         | 32                         | 20000                                                  | 51                   | 40                   | 350                  | 200                  | 180                  | 110                  | 32,0                                     | 197 192 020           |

Yerli Üretim/ Turkish Origin

### GÖZLÜ KANCA TİP C 320 / EYE HOOKS TYPE C 320



| Güvenli<br>Çalışma Yüğü<br>Working Load<br>Limit<br>kg | Test Yüğü<br>Proof Load<br>kg | B<br>mm | Q<br>mm | J<br>mm | F<br>mm | P<br>mm | A<br>mm | D<br>mm | Birim Ağırlığı<br>Weight per piece<br>kg | Stok No.<br>Stock No. |
|--------------------------------------------------------|-------------------------------|---------|---------|---------|---------|---------|---------|---------|------------------------------------------|-----------------------|
| kg                                                     | kg                            | mm      | mm      | mm      | mm      | mm      | mm      | mm      | kg                                       |                       |
| 1120                                                   | 2750                          | 38      | 20      | 26      | 33      | 53      | 110     | 72      | 0,40                                     | 572 110 0100          |
| 1500                                                   | 3680                          | 43      | 23      | 28      | 35      | 65      | 125     | 79      | 0,60                                     | 572 110 0150          |
| 2000                                                   | 4900                          | 52      | 29      | 30      | 38      | 75      | 145     | 91      | 0,90                                     | 572 110 0200          |
| 3150                                                   | 7720                          | 61      | 32      | 35      | 42      | 84      | 165     | 97      | 1,70                                     | 572 110 0300          |
| 4000                                                   | 9800                          | 74      | 40      | 38      | 50      | 100     | 200     | 120     | 3,60                                     | 572 110 0400          |
| 6,000                                                  | 14700                         | 96      | 50      | 47      | 63      | 144     | 260     | 157     | 6,20                                     | 572 110 0600          |
| 10000                                                  | 24000                         | 118     | 61      | 56      | 76      | 187     | 320     | 183     | 9,00                                     | 572 110 1000          |

Kancalar 42 CrMo4 (4140 İslah Çeliği) malzemeden kapalı kalıplarda imal edilmiştir.  
Hooks are drop-forged with the material 42CrMo4.



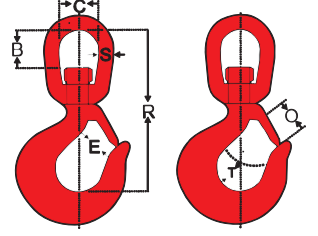
# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES

Yerli Üretim/ Turkish Origin

### FIRDÖNDÜLÜ KANCALAR ÇELİK DÖVME / SWIVEL HOOKS DROP-FORGED

| Güvenli Çalışma Yüğü<br>Working Load Limit | Test Yüğü<br>Proof Load | B   | E  | R   | C   | S  | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------------------------------------|-------------------------|-----|----|-----|-----|----|------------------------------------|-----------------------|
| ton                                        | ton                     | mm  | mm | mm  | mm  | mm | kg                                 |                       |
| 3                                          | 6                       | 37  | 33 | 164 | 40  | 18 | 1,60                               | 572 120 0300          |
| 5                                          | 10                      | 60  | 45 | 235 | 63  | 21 | 4,70                               | 572 120 0500          |
| 7                                          | 14                      | 80  | 55 | 295 | 75  | 24 | 8,00                               | 572 120 0700          |
| 10                                         | 20                      | 80  | 75 | 330 | 90  | 30 | 12,50                              | 572 120 1000          |
| 15                                         | 30                      | 100 | 75 | 345 | 95  | 36 | 15,00                              | 572 120 1500          |
| 25                                         | 50                      | 105 | 90 | 430 | 115 | 42 | 30,00                              | 572 120 2500          |



Kancalar C45 Malzemeden imal olup, çalışma yükünün 2 katına test edilmiştir.  
Hooks have been produced from material C45 and been tested by proof load 2 times of working load.

Yerli Üretim/ Turkish Origin

### KANCA MANDAL SETİ DIN 15106 / HOOK SPARE PARTS DIN 15106

| Ölçü<br>Size | Stok No.<br>Stock No. |
|--------------|-----------------------|
| No.          |                       |
| 1            | 242 410 100           |
| 1,6          | 242 410 160           |
| 2,5          | 242 410 250           |
| 4            | 242 410 400           |
| 5            | 242 410 500           |
| 6            | 242 410 600           |
| 8            | 242 410 800           |
| 10           | 242 411 000           |
| 12           | 242 411 200           |
| 16           | 242 411 600           |
| 20           | 242 412 000           |
| 25           | 242 412 500           |
| 32           | 242 413 200           |
| 40           | 242 414 000           |

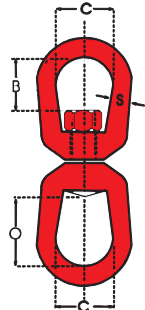


Yaylar ve Civatalar çelik malzemeden imal edilmiştir.  
Spirals and bolts have been produced from steel.

Yerli Üretim/ Turkish Origin

### FIRDÖNDÜ ÇELİK DÖVME / SWIVEL DROP-FORGED

| Güvenli Çalışma Yüğü<br>Working Load Limit | Test Yüğü<br>Proof Load | B   | C   | S  | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|--------------------------------------------|-------------------------|-----|-----|----|------------------------------------|-----------------------|
| ton                                        | ton                     | mm  | mm  | mm | kg                                 |                       |
| 4,5                                        | 9                       | 37  | 40  | 18 | 4,40                               | 574 110 0450          |
| 7                                          | 14                      | 60  | 63  | 21 | 7,50                               | 574 110 0700          |
| 10                                         | 20                      | 80  | 75  | 24 | 14,50                              | 574 110 1000          |
| 15                                         | 30                      | 100 | 95  | 36 | 18,30                              | 574 110 1500          |
| 20                                         | 40                      | 105 | 115 | 42 | 30,50                              | 574 110 2000          |



Kancalar C45 Malzemeden imal olup, çalışma yükünün 2 katına test edilmiştir.  
Hooks have been produced from material C45 and been tested by proof load 2 times of working load.



### DIN 15400'E GÖRE KANCA SEÇİM TABLOSU / HOOK CHOOSING TABLE ACC. to DIN 15400

| Kanca Malzemesi<br><i>Hook Material</i> | DIN 15020'ye göre tanımlanan FEM Grubu<br><i>Fem Lifting Class Acc. to DIN 15020</i> |     |     |     |     |     |    |    |    |    |
|-----------------------------------------|--------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|----|----|----|----|
| M                                       |                                                                                      |     |     |     | 1Bm | 1Am | 2m | 3m | 4m | 5m |
| P                                       |                                                                                      |     |     | 1Bm | 1Am | 2m  | 3m | 4m | 5m |    |
| S                                       |                                                                                      |     | 1Bm | 1Am | 2m  | 3m  | 4m | 5m |    |    |
| T                                       |                                                                                      | 1Bm | 1Am | 2m  | 3m  | 4m  |    |    |    |    |
| V                                       | 1Bm                                                                                  | 1Am | 2m  | 3m  | 4m  |     |    |    |    |    |

### KANCA MALZEME SINIFLARI / HOOK MATERIAL CLASSES

| Kanca Malzemesi<br><i>Hook Material</i> | Kaldırma Yüğü (kg) M(StE 285, St42)<br><i>Lifting Load (kg) M(StE 285, St42)</i> |        |        |        |        |        |        |        |        |        |
|-----------------------------------------|----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1                                       | 5000                                                                             | 4000   | 3200   | 2500   | 2000   | 1600   | 1250   | 1000   | 800    | 630    |
| 1,6                                     | 8000                                                                             | 6300   | 5000   | 4000   | 3200   | 2500   | 2000   | 1600   | 1250   | 1000   |
| 2,5                                     | 12500                                                                            | 10000  | 8000   | 6300   | 5000   | 4000   | 3200   | 2500   | 2000   | 1600   |
| 4                                       | 20000                                                                            | 16000  | 12500  | 10000  | 8000   | 6300   | 5000   | 4000   | 3200   | 2500   |
| 5                                       | 25000                                                                            | 20000  | 16000  | 12500  | 10000  | 8000   | 6300   | 5000   | 4000   | 3200   |
| 6                                       | 32000                                                                            | 25000  | 20000  | 16000  | 12500  | 10000  | 8000   | 6300   | 5000   | 4000   |
| 8                                       | 40000                                                                            | 32000  | 25000  | 20000  | 16000  | 12500  | 10000  | 8000   | 6300   | 5000   |
| 10                                      | 50000                                                                            | 40000  | 32000  | 25000  | 20000  | 16000  | 12500  | 10000  | 8000   | 6300   |
| 12                                      | 63000                                                                            | 50000  | 40000  | 32000  | 25000  | 20000  | 16000  | 12500  | 10000  | 8000   |
| 16                                      | 80000                                                                            | 63000  | 50000  | 40000  | 32000  | 25000  | 20000  | 16000  | 12500  | 10000  |
| 20                                      | 100000                                                                           | 80000  | 63000  | 50000  | 40000  | 32000  | 25000  | 20000  | 16000  | 12500  |
| 25                                      | 125000                                                                           | 100000 | 80000  | 63000  | 50000  | 40000  | 32000  | 25000  | 20000  | 16000  |
| 32                                      | 160000                                                                           | 125000 | 100000 | 80000  | 63000  | 50000  | 40000  | 32000  | 25000  | 20000  |
| 40                                      | 200000                                                                           | 160000 | 125000 | 100000 | 80000  | 63000  | 50000  | 40000  | 32000  | 25000  |
| 50                                      | 250000                                                                           | 200000 | 160000 | 125000 | 100000 | 80000  | 63000  | 50000  | 40000  | 32000  |
| 63                                      | 320000                                                                           | 250000 | 200000 | 160000 | 125000 | 100000 | 80000  | 63000  | 50000  | 40000  |
| 80                                      | 400000                                                                           | 320000 | 250000 | 200000 | 160000 | 125000 | 100000 | 80000  | 63000  | 50000  |
| 100                                     | 500000                                                                           | 400000 | 320000 | 250000 | 200000 | 160000 | 125000 | 100000 | 80000  | 63000  |
| 125                                     |                                                                                  | 500000 | 400000 | 320000 | 250000 | 200000 | 160000 | 125000 | 100000 | 80000  |
| 160                                     |                                                                                  |        | 500000 | 400000 | 320000 | 250000 | 200000 | 160000 | 125000 | 100000 |
| 200                                     |                                                                                  |        |        | 500000 | 400000 | 320000 | 250000 | 200000 | 160000 | 125000 |
| 250                                     |                                                                                  |        |        |        | 500000 | 400000 | 320000 | 250000 | 200000 | 160000 |

Kanca Malzeme Sınıfları: M (StE 285; St42)  
*Hook Material Classes:* P (StE 355; St52)  
 S (StE 420; 34 CrMo4)  
 T (StE 500; 34 CrMo4)  
 V(34CrMo4; 34CrN; Mo6)



# ÇELİK HALAT AKSESUARLARI

## WIRE ROPE ACCESSORIES

Yerli Üretim/ Turkish Origin

### TEK AĞIZLI VİNÇ KANCALARI DIN 15401 / SINGLE HOOKS DIN 15401

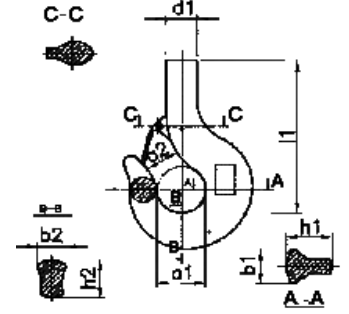
| Kanca Nr.<br>Hook No. | a <sub>1</sub> | a <sub>2</sub> | b <sub>1</sub> | b <sub>2</sub> | d <sub>1</sub> | h <sub>1</sub> | h <sub>2</sub> | l <sub>1</sub> | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------------------------|-----------------------|
|                       | mm             | mm             | mm             | mm             | mm             | mm             | mm             | mm             | kg                                 |                       |
| 1                     | 50             | 40             | 38             | 32             | 30             | 48             | 40             | 197            | 3,5                                | 232 400 100           |
| 1,6                   | 56             | 45             | 45             | 38             | 36             | 56             | 48             | 224            | 4,5                                | 232 400 160           |
| 2,5                   | 63             | 50             | 53             | 45             | 42             | 67             | 58             | 253            | 6,5                                | 232 400 250           |
| 4                     | 71             | 56             | 63             | 53             | 48             | 80             | 67             | 285            | 11                                 | 232 400 400           |
| 5                     | 80             | 63             | 71             | 60             | 53             | 90             | 75             | 318            | 17                                 | 232 400 500           |
| 6                     | 90             | 71             | 80             | 67             | 60             | 100            | 85             | 395            | 26                                 | 232 400 600           |
| 8                     | 100            | 80             | 90             | 75             | 67             | 112            | 95             | 430            | 30                                 | 232 400 800           |
| 10                    | 112            | 90             | 100            | 85             | 75             | 125            | 106            | 460            | 43                                 | 232 401 000           |
| 12                    | 125            | 100            | 112            | 95             | 85             | 140            | 118            | 525            | 68                                 | 232 401 200           |
| 16                    | 140            | 112            | 125            | 106            | 95             | 160            | 132            | 595            | 95                                 | 232 401 600           |
| 20                    | 160            | 125            | 140            | 118            | 106            | 180            | 150            | 665            | 112                                | 232 402 000           |
| 25                    | 180            | 140            | 160            | 132            | 118            | 200            | 170            | 735            | 160                                | 232 402 500           |
| 32                    | 200            | 160            | 180            | 150            | 132            | 224            | 190            | 810            | 220                                | 232 403 200           |
| 40                    | 224            | 180            | 200            | 170            | 150            | 250            | 212            | 905            | 310                                | 232 404 000           |
| 50                    | 250            | 200            | 224            | 190            | 170            | 280            | 236            | 990            | 430                                | 232 405 000           |

Kancalar kapalı dövme çelik kalıplarında DIN normuna uygun olarak imal edilmektedir.

Drop-Forged Acc. to. DIN

Kanca seçimi için sayfa: 58'e bakın.

Please refer to page: 58 for choosing hook nr.



Yerli Üretim/ Turkish Origin

### ÇİFT AĞIZLI VİNÇ KANCALARI DIN 15402 / CRANE HOOKS acc.to DIN 15402

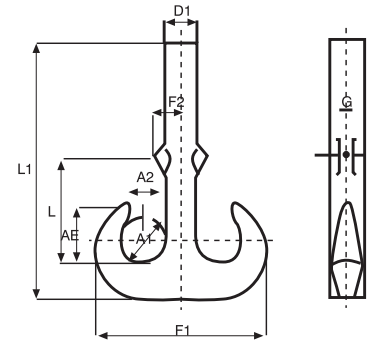
| Kanca Nr.<br>Hook No. | a <sub>1</sub> | a <sub>2</sub> | b <sub>1</sub> | d <sub>1</sub> | f    | h   | l <sub>1</sub> | Birim Ağırlığı<br>Weight Per Piece | Stok No.<br>Stock No. |
|-----------------------|----------------|----------------|----------------|----------------|------|-----|----------------|------------------------------------|-----------------------|
|                       | mm             | mm             | mm             | mm             | mm   | mm  | mm             | kg                                 |                       |
| 4                     | 56             | 45             | 48             | 48             | 238  | 60  | 370            | 9,5                                | 232 500 400           |
| 5                     | 63             | 50             | 53             | 53             | 266  | 67  | 430            | 12,5                               | 232 500 500           |
| 6                     | 71             | 56             | 60             | 60             | 301  | 75  | 515            | 19                                 | 232 500 600           |
| 8                     | 80             | 63             | 67             | 67             | 337  | 85  | 555            | 24                                 | 232 500 800           |
| 10                    | 91             | 71             | 75             | 75             | 377  | 95  | 620            | 45                                 | 232 501 000           |
| 12                    | 100            | 80             | 85             | 85             | 421  | 106 | 710            | 60                                 | 232 501 200           |
| 16                    | 112            | 90             | 95             | 95             | 471  | 118 | 780            | 80                                 | 232 501 600           |
| 20                    | 125            | 100            | 106            | 106            | 531  | 132 | 850            | 108                                | 232 502 000           |
| 25                    | 140            | 112            | 118            | 118            | 598  | 150 | 915            | 155                                | 232 502 500           |
| 32                    | 160            | 125            | 132            | 132            | 672  | 170 | 800            | 195                                | 232 503 200           |
| 40                    | 180            | 140            | 150            | 150            | 754  | 190 | 1085           | 280                                | 232 504 000           |
| 50                    | 200            | 160            | 170            | 170            | 842  | 212 | 1115           | 388                                | 232 505 000           |
| 63                    | 224            | 180            | 190            | 190            | 944  | 236 | 1290           | 539                                | 232 506 300           |
| 80                    | 250            | 200            | 212            | 212            | 1063 | 265 | 1435           | 750                                | 232 508 000           |
| 100                   | 280            | 224            | 236            | 236            | 1186 | 300 | 1575           | 1050                               | 232 510 000           |
| 125                   | 315            | 250            | 265            | 265            | 1330 | 335 | 1750           | 1480                               | 232 512 500           |

Kancalar Kapalı dövme çelik kalıplarında DIN normuna uygun olarak imal edilmektedir.

Drop-Forged Acc. to. DIN

Kanca seçimi için sayfa: 58'e bakın.

Please refer to page: 58 for choosing hook nr.

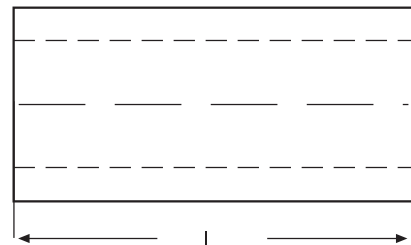
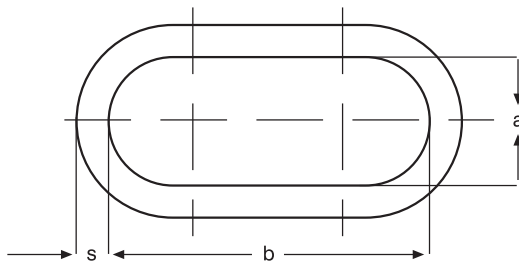




### EN 13411-3 TABLO A.1

#### ALUMİNYUM YÜZÜK TİP T / ALUMINIUM PRESS CLAMPS TYPE T

| Yüzük No<br>Clamp No | a<br>mm | Tolerans<br>Tolerance | b<br>mm | Tolerans<br>Tolerance | s<br>mm | Tolerans<br>Tolerance | l<br>mm | Tolerans<br>Tolerance | 1000<br>Adetin<br>Ağırlığı<br>Weight Pieces<br>1000 kg | Stok No<br>Stock No |
|----------------------|---------|-----------------------|---------|-----------------------|---------|-----------------------|---------|-----------------------|--------------------------------------------------------|---------------------|
| T 1                  | 1,3     |                       | 2,6     |                       | 0,85    | ± 0,02                | 5       |                       | 0,103                                                  | 600 300 001         |
| T 1,5                | 1,8     | ±0,2                  | 3,6     | +0,2                  | 1,05    | ± 0,03                | 6       | +0,2                  | 0,211                                                  | 600 301 015         |
| T 2                  | 2,4     | 0                     | 4,8     | 0                     | 0,85    | ± 0,02                | 7       | - 0,5                 | 0,238                                                  | 600 300 002         |
| T 2,5                | 2,7     | ±0,2                  | 6       | +0,2                  | 1,05    | ± 0,03                | 9       | +0,2                  | 0,499                                                  | 600 301 025         |
| T 3                  | 3,3     | 0                     | 7       | 0                     | 1,25    | ± 0,03                | 11      | - 0,5                 | 0,843                                                  | 600 300 003         |
| T 3,5                | 3,8     |                       | 8       |                       | 1,5     | ± 0,04                | 13      |                       | 1,32                                                   | 600 301 035         |
| T 4                  | 4,4     | ±0,2                  | 9       | +0,2                  | 1,7     | ± 0,04                | 14      | +0,2                  | 1,81                                                   | 600 300 004         |
| T 4,5                | 4,9     | 0                     | 10,2    | 0                     | 1,9     | ± 0,05                | 16      | - 0,5                 | 2,61                                                   | 600 301 045         |
| T 5                  | 5,5     |                       | 11,2    |                       | 2,1     | ± 0,05                | 18      |                       | 3,57                                                   | 600 300 005         |
| T 6                  | 6,6     |                       | 13,2    |                       | 2,5     | ± 0,06                | 21      | +0,2                  | 5,86                                                   | 600 300 006         |
| T 6,5                | 7,2     | ± 0,15                | 14,4    | ± 0,15                | 2,7     | ± 0,07                | 23      | - 0,5                 | 7,55                                                   | 600 301 065         |
| T 7                  | 7,8     |                       | 15,6    |                       | 2,9     | ± 0,07                | 25      |                       | 9,53                                                   | 600 300 007         |
| T 8                  | 8,8     |                       | 17,6    |                       | 3,3     | ± 0,08                | 28      | +0,5                  | 13,7                                                   | 600 300 008         |
| T 9                  | 9,9     | ± 0,2                 | 19,8    | ± 0,2                 | 3,7     | ± 0,09                | 32      | - 1                   | 19,8                                                   | 600 300 009         |
| T 10                 | 10,9    |                       | 21,8    |                       | 4,1     | ± 0,1                 | 35      |                       | 26,4                                                   | 600 300 010         |
| T 11                 | 12,1    |                       | 24,2    |                       | 4,5     | ± 0,11                | 39      | +0,5                  | 35,8                                                   | 600 300 011         |
| T 12                 | 13,2    | ± 0,3                 | 26,4    | ± 0,3                 | 4,9     | ± 0,12                | 42      | - 1                   | 45,8                                                   | 600 300 012         |
| T 13                 | 14,2    |                       | 28,4    |                       | 5,4     | ± 0,13                | 46      |                       | 59,7                                                   | 600 300 013         |
| T 14                 | 15,3    |                       | 30,6    |                       | 5,8     | ± 0,14                | 49      | +0,5                  | 73,5                                                   | 600 300 014         |
| T 16                 | 17,5    | ± 0,3                 | 35      | ± 0,3                 | 6,7     | ± 0,16                | 56      | - 1                   | 111                                                    | 600 300 016         |
| T 18                 | 19,6    |                       | 39,2    |                       | 7,6     | ± 0,18                | 63      |                       | 159                                                    | 600 300 018         |
| T 20                 | 21,7    | ± 0,3                 | 43,4    | ± 0,3                 | 8,4     | ± 0,2                 | 70      | +0,7                  | 217                                                    | 600 300 020         |
| T 22                 | 24,3    | ± 0,4                 | 48,06   | ± 0,4                 | 9,2     | ± 0,22                | 77      | - 1,5                 | 292                                                    | 600 300 022         |
| T 24                 | 26,4    |                       | 52,8    |                       | 10      | ± 0,24                | 84      |                       | 376                                                    | 600 300 024         |
| T 26                 | 28,5    |                       | 57      |                       | 10,9    | ± 0,26                | 91      | +0,7                  | 481                                                    | 600 300 026         |
| T 28                 | 31      | ± 0,4                 | 62      | ± 0,4                 | 11,7    | ± 0,28                | 98      | - 1,5                 | 603                                                    | 600 300 028         |
| T 30                 | 33,1    |                       | 62,2    |                       | 12,5    | ± 0,3                 | 105     |                       | 739                                                    | 600 300 030         |
| T 32                 | 35,2    |                       | 70,4    |                       | 13,4    | ± 0,32                | 112     | +0,7                  | 897                                                    | 600 300 032         |
| T 34                 | 37,8    | ± 0,4                 | 75,6    | ± 0,4                 | 14,2    | ± 0,35                | 119     | - 1,5                 | 1077                                                   | 600 300 034         |
| T 36                 | 39,8    |                       | 79,6    |                       | 15      | ± 0,37                | 126     |                       | 1275                                                   | 600 300 036         |
| T 38                 | 41,9    |                       | 83,8    |                       | 15,8    | ± 0,38                | 133     | +0,7                  | 1503                                                   | 600 300 038         |
| T 40                 | 44      | ± 0,4                 | 88      | ± 0,4                 | 16,6    | ± 0,4                 | 140     | - 1,5                 | 1734                                                   | 600 300 040         |
| T 42                 | 46,2    |                       | 92,4    |                       | 17,5    | ± 0,42                | 147     |                       | 2024                                                   | 600 300 042         |
| T 44                 | 48,4    |                       | 96,8    |                       | 18,3    | ± 0,44                | 154     | +0,7                  | 2314                                                   | 600 300 044         |
| T 46                 | 50,6    | ± 0,4                 | 101,2   | ± 0,5                 | 19,2    | ± 0,46                | 161     | - 1,5                 | 2662                                                   | 600 300 046         |
| T 48                 | 52,8    |                       | 105,6   |                       | 20      | ± 0,48                | 168     |                       | 3010                                                   | 600 300 048         |
| T 50                 | 55      |                       | 110     |                       | 20,8    | ± 0,5                 | 175     | +0,7                  | 3412                                                   | 600 300 050         |
| T 52                 | 57,2    | ± 0,4                 | 114,4   | ± 0,5                 | 21,6    | ± 0,52                | 183     | - 1,5                 | 3813                                                   | 600 300 052         |
| T 54                 | 59,4    |                       | 118,8   |                       | 22,5    | ± 0,54                | 189     |                       | 4293                                                   | 600 300 054         |
| T 56                 | 61,6    |                       | 123,2   |                       | 23,3    | ± 0,56                | 196     | +0,7                  | 4772                                                   | 600 300 056         |
| T 58                 | 63,8    | ± 0,5                 | 127,6   | ± 0,6                 | 24,2    | ± 0,58                | 203     | - 1,5                 | 5326                                                   | 600 300 058         |
| T 60                 | 66      |                       | 132     |                       | 25      | ± 0,6                 | 210     |                       | 5880                                                   | 600 300 060         |







# ÇELİK HALAT AKSESUARLARI WIRE ROPE ACCESSORIES



## ALUMİNYUM YÜZÜKLER EN 13411-3/ ALUMINIUM FERRULES acc. to 13411-3

T-01'den T-126'ya kadar mevcuttur / Available from T-01 up to T-126

Bu yüzükler çelik halatlar için farklı malzemelerden üretilmiştir. Aynı zamanda ek güvenlik sağlamak için dikişsiz boru yöntemi ile üretilir.

8 no ve üstü yüzüklerin üzerinde, ölçü, tip ve üretim parti numarası vardır. Yüzük baskı talimatı, doğru baskı yöntemi, gerekli baskı kuvveti ve yüzük seçimi detaylarını içerir. Yüzüklerimiz bir çok uluslararası bağımsız yetkili kuruluşlardan onaylıdır. Lütfen ayrıntı için istek yapınız.

\*Lütfen baskı talimatı tablomuzu isteyiniz ve uyunuz.

**EN 13411-3**

*Press clamps in different materials have been developed to cater for a variety of needs and applications. All our press clamps are produced seamless for added safety.*

*All aluminium press clamps from size 8 and upwards are fully traceable (ISO 9000) and marked with size type and manufacturing batch number. Our "INSTRUCTION FOR PRESS CLAMPS" details the correct method of pressing, pressure required and clamp selection criteria. Our clamps are approved by many International Institutions and Authorities, details available on request.*



**Talurit-Yüzük (T)**  
Talurit-Clamps (T)



**Talurit-Yüzük (UM)**  
Talurit-Clamps (UM)



**Yuvarlak Yüzük (R)**  
Round clamps (R)



**Talurit-Konit (TK)**  
Talurit-Konit (TK)

Konik yüzükler sapanın yük altından çekilirken takılmasını engeller. Ayrıca, daha kullanışlı ve estetikdir.

*The conical press clamps are tapered at the back to recude the risk of load snagging. Furthermore, the conical press clamps are elegant and functional.*



### Talurit-Yüzük (TKH)

*Talurit-Clamps (TKH)*



### Bakır Yüzükler (TCU)

*Copper clamps (TCU)*

Paslanmaz Çelik Halatlar için  
*For stainless-steel wire ropes.*



### Silindirik Çelik Yüzükler (STD)

*Cylindrical Carbon Steel clamps (STD)*

Siyah ve Galvaniz çelik halatlar için  
bu yüzükler, denizde ve yüksek ısı  
ortamlarında tercih edilir.

*For bright and galvanized steel wire ropes.  
Steel clamps are used for applications  
where high temperatures and/or abrasion  
is a factor to be considered, examples are  
the steel melting and fishing industries.*



### Yuvarlak Çelik Yüzükler (STR)

*Round Carbon Steel Clamps (STR)*



### Karbon Çelik Yüzükler (STC)

*Carbon Steel Clamps (STC)*

Fleş tip sapanlarda kullanılır.

*These clamps are used in connection  
with pressing of Flemish eye.*



### Paslanmaz Çelik Yüzükler (RSTD)

*Stainless steel clamps (RSTD)*

Bu yüzükler tuzlu sularda, dekorasyonda ve  
korozyona karşı mukavemet istenen yerlerde  
kullanılır.

*These stainless steel clamps are used in fields  
with high demand for resistance to corrosion and  
design, f.i. long term use in salt water, use in  
nuclear power plants, architecture etc.*