

1990 yılında üretim faaliyetine başlayan firmamız, gelişen teknolojiyi takip ederek, kaliteli üretimden taviz vermeden emin adımlarla yoluna devam etmektedir.

Vizyonumuz: Firma olarak prensip ve tecrübelerimizle üretmekte olduğumuz tüm emtialarla, siz değerli müşterilerimizin beğenisini kazanarak her alanda kaliteyi öne çıkaran bir dünya markası olmaktır.

Misyonumuz: Tüm emek veren çalışanlarımızla birlikte kuruluşumuzun temel taşı olarak gördüğümüz müşterilerimizin beklentilerine uygun, kaliteli ve kusursuz emtia üretimi sağlayarak, sonsuz bir güven ortamı içerisinde ticaretimizi sürdürmektir.

Unutmayalım ki; "kalite asla bir tesadüf değil, daima akıllı bir gayretin sonucudur."



Fevzi Çakmak Mah. Sıla Cad. Elit Sanayi Sistesesi  
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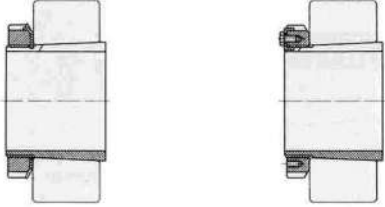
0 (332) 238 0480



## AKSESUARLAR

Germe manşonlar  
Çakma manşonlar  
Mil somunları  
Emniyet parçaları

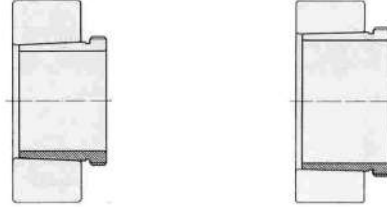
## Somun ve emniyeti ile birlikte germe manşonlar



H30  $d_1 \leq 180$  mm  
H31  $d_1 \leq 260$  mm  
H2, H3, H23

H30  $d_1 \leq 180$  mm  
H31  $d_1 \leq 260$  mm  
H39, H32

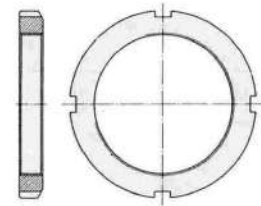
## Çakma manşonlar



AH39, AH31,  
AH32, AH3, AH23  
Koniklik 1:12

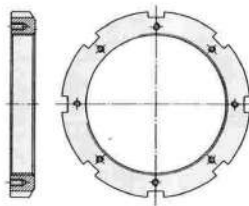
AH240, AH241  
Koniklik 1:30

## Mil Somunları, çektirme somunları



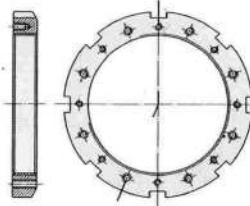
KM, KML, HM, HML, HMLL

## Mil Somunları



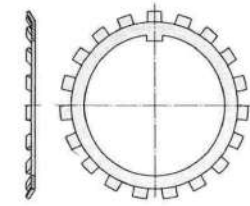
HM30, HM31

## Çektirme somunları

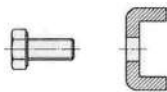


HM30H, HM31H  
Montaj civataları için  
vida delikleri

## Emniyet saçları



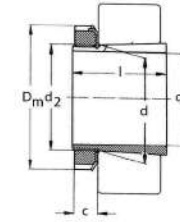
MB, MBL

Altı köşe civatalı  
emniyet askısı

MS30, MS31

## GERME MANŞONLAR

Somunlu ve emniyet saçlı



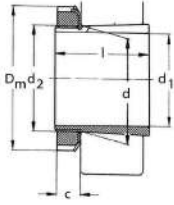
Emniyet saçı : MB  
Koniklik: 1:12

| Mil | Boyutlar  |       |       |     |     | Vida<br>$d_2$ | Numara<br>Komple<br>germe<br>manşonu | Somun | Emniyet<br>saçı | Ağırlık<br>kg |
|-----|-----------|-------|-------|-----|-----|---------------|--------------------------------------|-------|-----------------|---------------|
|     | $d$<br>mm | $d_1$ | $D_m$ | $l$ | $c$ |               |                                      |       |                 |               |
| 14  | 17        | 14    | 28    | 21  | 6   | M17x1         | H203                                 | KM3   | MB3             | 0.032         |
|     |           |       |       |     |     |               |                                      |       |                 |               |
| 17  | 20        | 17    | 32    | 24  | 7   | M20x1         | H204                                 | KM4   | MB4             | 0.041         |
|     | 20        | 17    | 32    | 28  | 7   | M20x1         | H304                                 | KM4   | MB4             | 0.045         |
|     | 20        | 17    | 32    | 31  | 7   | M20x1         | H2304                                | KM4   | MB4             | 0.047         |
| 20  | 25        | 20    | 38    | 26  | 9   | M25x1.5       | H205                                 | KM5   | MB5             | 0.069         |
|     | 25        | 20    | 38    | 29  | 9   | M25x1.5       | H305                                 | KM5   | MB5             | 0.075         |
|     | 25        | 20    | 38    | 35  | 9   | M25x1.5       | H2305                                | KM5   | MB5             | 0.087         |
| 25  | 30        | 25    | 45    | 27  | 9   | M30x1.5       | H206                                 | KM6   | MB6             | 0.091         |
|     | 30        | 25    | 45    | 31  | 9   | M30x1.5       | H306                                 | KM6   | MB6             | 0.1           |
|     | 30        | 25    | 45    | 38  | 9   | M30x1.5       | H2306                                | KM6   | MB6             | 0.117         |
| 30  | 35        | 30    | 52    | 29  | 10  | M35x1.5       | H207                                 | KM7   | MB7             | 0.129         |
|     | 35        | 30    | 52    | 35  | 10  | M35x1.5       | H307                                 | KM7   | MB7             | 0.147         |
|     | 35        | 30    | 52    | 43  | 10  | M35x1.5       | H2307                                | KM7   | MB7             | 0.171         |
| 35  | 40        | 35    | 58    | 31  | 11  | M40x1.5       | H208                                 | KM8   | MB8             | 0.17          |
|     | 40        | 35    | 58    | 36  | 11  | M40x1.5       | H308                                 | KM8   | MB8             | 0.185         |
|     | 40        | 35    | 58    | 46  | 11  | M40x1.5       | H2308                                | KM8   | MB8             | 0.222         |
|     | 40        | 35    | 58    | 50  | 11  | M40x1.5       | H3308                                | KM8   | MB8             | 0.261         |
| 40  | 45        | 40    | 65    | 33  | 12  | M45x1.5       | H209                                 | KM9   | MB9             | 0.216         |
|     | 45        | 40    | 65    | 39  | 12  | M45x1.5       | H309                                 | KM9   | MB9             | 0.246         |
|     | 45        | 40    | 65    | 50  | 12  | M45x1.5       | H2309                                | KM9   | MB9             | 0.283         |
|     | 45        | 40    | 65    | 54  | 12  | M45x1.5       | H3309                                | KM9   | MB9             | 0.339         |
| 45  | 50        | 45    | 70    | 35  | 13  | M50x1.5       | H210                                 | KM10  | MB10            | 0.264         |
|     | 50        | 45    | 70    | 42  | 13  | M50x1.5       | H310                                 | KM10  | MB10            | 0.301         |
|     | 50        | 45    | 70    | 55  | 13  | M50x1.5       | H2310                                | KM10  | MB10            | 0.353         |
|     | 50        | 45    | 70    | 60  | 13  | M50x1.5       | H3310                                | KM10  | MB10            | 0.379         |
| 50  | 55        | 50    | 75    | 37  | 13  | M55x2         | H211                                 | KM11  | MB11            | 0.292         |
|     | 55        | 50    | 75    | 45  | 13  | M55x2         | H311                                 | KM11  | MB11            | 0.35          |
|     | 55        | 50    | 75    | 59  | 13  | M55x2         | H2311                                | KM11  | MB11            | 0.426         |
|     | 55        | 50    | 75    | 65  | 13  | M55x2         | H3311                                | KM11  | MB11            | 0.509         |
| 55  | 60        | 55    | 80    | 38  | 13  | M60x2         | H212                                 | KM12  | MB12            | 0.344         |
|     | 60        | 55    | 80    | 47  | 13  | M60x2         | H312                                 | KM12  | MB12            | 0.373         |
|     | 60        | 55    | 80    | 62  | 13  | M60x2         | H2312                                | KM12  | MB12            | 0.533         |
|     | 60        | 55    | 80    | 70  | 13  | M60x2         | H3312                                | KM12  | MB12            | 0.591         |



GERME MANŞONLAR

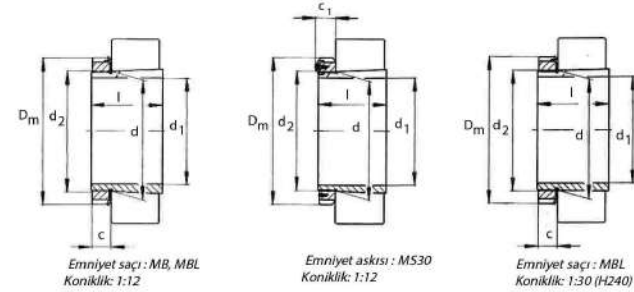
Somunlu ve emniyet saçı



Emniyet saçı : MB  
Koniklik: 1:12

| Mil | Boyutlar |                |                |     |    | Vida   | Numara | Somun | Emniyet saçı | Ağırlık |                |
|-----|----------|----------------|----------------|-----|----|--------|--------|-------|--------------|---------|----------------|
|     | d        | d <sub>1</sub> | D <sub>m</sub> | l   | c  |        |        |       |              |         | d <sub>2</sub> |
| 60  | 65       | 60             | 85             | 40  | 14 | M65x2  | H213   | KM13  | MB13         | 0.393   |                |
|     | 65       | 60             | 85             | 50  | 14 | M65x2  | H313   | KM13  | MB13         | 0.452   |                |
|     | 65       | 60             | 85             | 65  | 14 | M65x2  | H2313  | KM13  | MB13         | 0.553   |                |
|     | 65       | 60             | 85             | 75  | 14 | M65x2  | H3313  | KM13  | MB13         | 0.629   |                |
|     | 70       | 60             | 92             | 41  | 14 | M70x2  | H214   | KM14  | MB14         | 0.603   |                |
|     | 70       | 60             | 92             | 52  | 14 | M70x2  | H314   | KM14  | MB14         | 0.715   |                |
|     | 70       | 60             | 92             | 68  | 14 | M70x2  | H2314  | KM14  | MB14         | 0.895   |                |
|     | 70       | 60             | 92             | 81  | 14 | M70x2  | H3314  | KM14  | MB14         | 1.05    |                |
|     | 65       | 75             | 65             | 98  | 43 | 15     | M75x2  | H215  | KM15         | MB15    | 0.777          |
|     |          | 75             | 65             | 98  | 55 | 15     | M75x2  | H315  | KM15         | MB15    | 0.826          |
| 75  |          | 65             | 98             | 73  | 15 | M75x2  | H2315  | KM15  | MB15         | 1.16    |                |
| 75  |          | 65             | 98             | 87  | 15 | M75x2  | H3315  | KM15  | MB15         | 1.36    |                |
| 70  | 80       | 70             | 105            | 46  | 17 | M80x2  | H216   | KM16  | MB16         | 0.876   |                |
|     | 80       | 70             | 105            | 59  | 17 | M80x2  | H316   | KM16  | MB16         | 1.03    |                |
|     | 80       | 70             | 105            | 78  | 17 | M80x2  | H2316  | KM16  | MB16         | 1.27    |                |
|     | 80       | 70             | 105            | 89  | 17 | M80x2  | H3316  | KM16  | MB16         | 1.56    |                |
| 75  | 85       | 75             | 110            | 50  | 18 | M85x2  | H217   | KM17  | MB17         | 1.09    |                |
|     | 85       | 75             | 110            | 63  | 18 | M85x2  | H317   | KM17  | MB17         | 1.16    |                |
|     | 85       | 75             | 110            | 82  | 18 | M85x2  | H2317  | KM17  | MB17         | 1.55    |                |
|     | 85       | 75             | 110            | 95  | 18 | M85x2  | H3317  | KM17  | MB17         | 1.79    |                |
| 80  | 90       | 80             | 120            | 52  | 18 | M90x2  | H218   | KM18  | MB18         | 1.29    |                |
|     | 90       | 80             | 120            | 65  | 18 | M90x2  | H318   | KM18  | MB18         | 1.39    |                |
|     | 90       | 80             | 120            | 86  | 18 | M90x2  | H2318  | KM18  | MB18         | 1.69    |                |
|     | 90       | 80             | 120            | 95  | 18 | M90x2  | H3318  | KM18  | MB18         | 2       |                |
| 85  | 95       | 85             | 125            | 55  | 19 | M95x2  | H219   | KM19  | MB19         | 1.45    |                |
|     | 95       | 85             | 125            | 68  | 19 | M95x2  | H319   | KM19  | MB19         | 1.51    |                |
|     | 95       | 85             | 125            | 90  | 19 | M95x2  | H2319  | KM19  | MB19         | 2.06    |                |
|     | 95       | 85             | 125            | 101 | 19 | M95x2  | H3319  | KM19  | MB19         | 2.27    |                |
| 90  | 100      | 90             | 130            | 58  | 20 | M100x2 | H220   | KM20  | MB20         | 1.63    |                |
|     | 100      | 90             | 130            | 71  | 20 | M100x2 | H320   | KM20  | MB20         | 1.73    |                |
|     | 100      | 90             | 130            | 76  | 20 | M100x2 | H3120  | KM20  | MB20         | 1.78    |                |
|     | 100      | 90             | 130            | 97  | 20 | M100x2 | H2320  | KM20  | MB20         | 2.17    |                |
|     | 100      | 90             | 130            | 106 | 20 | M100x2 | H3320  | KM20  | MB20         | 2.55    |                |
| 95  | 105      | 95             | 140            | 60  | 20 | M105x2 | H221   | KM21  | MB21         | 1.82    |                |
|     | 105      | 95             | 140            | 74  | 20 | M105x2 | H321   | KM21  | MB21         | 2.08    |                |
|     | 105      | 95             | 140            | 101 | 20 | M105x2 | H2321  | KM21  | MB21         | 2.65    |                |
|     | 105      | 95             | 140            | 111 | 20 | M105x2 | H3321  | KM21  | MB21         | 2.88    |                |

GERME MANŞONLAR



| Mil | Boyutlar |                |                |     |    | Vida            | Numara   | Somun | Emniyet saçı | Ağırlık |
|-----|----------|----------------|----------------|-----|----|-----------------|----------|-------|--------------|---------|
|     | d        | d <sub>1</sub> | D <sub>m</sub> | l   | c  |                 |          |       |              |         |
| 100 | 110      | 100            | 145            | 63  | 21 | M110x2          | H222     | KM22  | MB22         | 2.03    |
|     | 110      | 100            | 145            | 77  | 21 | M110x2          | H322     | KM22  | MB22         | 2.16    |
|     | 110      | 100            | 145            | 81  | 21 | M110x2          | H3122    | KM22  | MB22         | 2.23    |
|     | 110      | 100            | 145            | 105 | 21 | M110x2          | H2322    | KM22  | MB22         | 2.74    |
|     | 110      | 100            | 145            | 117 | 21 | M110x2          | H3322    | KM22  | MB22         | 3.23    |
| 110 | 120      | 110            | 145            | 60  | 22 | M120x2          | H3924    | KML24 | MBL24        | 1.86    |
|     | 120      | 110            | 145            | 72  | 22 | M120x2          | H3024    | KML24 | MBL24        | 1.95    |
|     | 120      | 110            | 155            | 88  | 22 | M120x2          | H3124    | KM24  | MB24         | 2.61    |
|     | 120      | 110            | 155            | 112 | 22 | M120x2          | H2324    | KM24  | MB24         | 3.18    |
|     | 120      | 110            | 155            | 132 | 22 | M120x2          | H3324    | KM24  | MB24         | 3.98    |
| 115 | 130      | 115            | 155            | 65  | 23 | M130x2          | H3926    | KML26 | MBL26        | 2.65    |
|     | 130      | 115            | 155            | 80  | 23 | M130x2          | H3026    | KML26 | MBL26        | 2.9     |
|     | 130      | 115            | 165            | 92  | 23 | M130x2          | H3126    | KM26  | MB26         | 3.63    |
|     | 130      | 115            | 165            | 121 | 23 | M130x2          | H2326    | KM26  | MB26         | 4.9     |
|     | 130      | 115            | 165            | 139 | 23 | M130x2          | H3326    | KM26  | MB26         | 5.6     |
| 125 | 140      | 125            | 165            | 66  | 24 | M140x2          | H3928    | KML28 | MBL28        | 2.94    |
|     | 140      | 125            | 165            | 82  | 24 | M140x2          | H3028    | KML28 | MBL28        | 3.25    |
|     | 140      | 125            | 180            | 97  | 24 | M140x2          | H3128    | KM28  | MB28         | 4.33    |
|     | 140      | 125            | 180            | 131 | 24 | M140x2          | H2328    | KM28  | MB28         | 5.94    |
|     | 140      | 125            | 180            | 147 | 24 | M140x2          | H3328    | KM28  | MB28         | 6.63    |
| 135 | 150      | 135            | 180            | 76  | 26 | M150x2          | H3930    | KML30 | MBL30        | 3.85    |
|     | 150      | 135            | 180            | 87  | 26 | M150x2          | H3030    | KML30 | MBL30        | 3.98    |
|     | 150      | 135            | 195            | 111 | 26 | M150x2          | H3130    | KM30  | MB30         | 5.49    |
|     | 150      | 135            | 195            | 139 | 26 | M150x2          | H2330    | KM30  | MB30         | 6.71    |
|     | 150      | 135            | 195            | 159 | 26 | M150x2          | H3330    | KM30  | MB30         | 8.07    |
| 140 | 160      | 140            | 190            | 78  | 28 | M160x3          | H3932    | KML32 | MBL32        | 4.99    |
|     | 160      | 140            | 190            | 78  | 28 | M160x3 M6 4.2 7 | H3932HG  | KML32 | MBL32        | 4.99    |
|     | 160      | 140            | 190            | 93  | 28 | M160x3          | H3032    | KML32 | MBL32        | 5.33    |
|     | 160      | 140            | 190            | 93  | 28 | M160x3 M6 4.2 7 | H3032HG  | KML32 | MBL32        | 5.32    |
|     | 160      | 140            | 210            | 119 | 28 | M160x3          | H3132    | KM32  | MB32         | 7.57    |
|     | 160      | 140            | 210            | 119 | 28 | M160x3 M6 4.2 7 | H3132HG  | KM32  | MB32         | 7.55    |
|     | 160      | 140            | 210            | 147 | 28 | M160x3          | H2332    | KM32  | MB32         | 9.65    |
|     | 160      | 140            | 210            | 147 | 28 | M160x3 M6 4.2 7 | H2332HG  | KM32  | MB32         | 9.65    |
|     | 160      | 140            | 210            | 170 | 28 | M160x3          | H3332    | KM32  | MB32         | 11.1    |
|     | 150      | 170            | 150            | 200 | 65 | 29              | M170x3   | H3834 | KML34        | MBL34   |
| 170 |          | 150            | 200            | 79  | 29 | M170x3          | H3934    | KML34 | MBL34        | 5.36    |
| 170 |          | 150            | 200            | 79  | 29 | M170x3 M6 4.2 7 | H3934HG  | KML34 | MBL34        | 5.36    |
| 170 |          | 150            | 200            | 101 | 29 | M170x3          | H3034    | KML34 | MBL34        | 6.08    |
| 170 |          | 150            | 200            | 101 | 29 | M170x3 M6 4.2 7 | H3034HG  | KML34 | MBL34        | 6.06    |
| 170 |          | 150            | 220            | 122 | 29 | M170x3          | H3134    | KM34  | MB34         | 8.87    |
| 170 |          | 150            | 220            | 122 | 29 | M170x3 M6 4.2 7 | H3134HG  | KM34  | MB34         | 8.87    |
| 170 |          | 150            | 200            | 130 | 29 | M170x3          | H24034   | KML34 | MBL34        | 7.07    |
| 170 |          | 150            | 200            | 130 | 29 | M170x3 M6 4.2 7 | H24034HG | KML34 | MBL34        | 7.05    |



## GERME MANŞONLAR

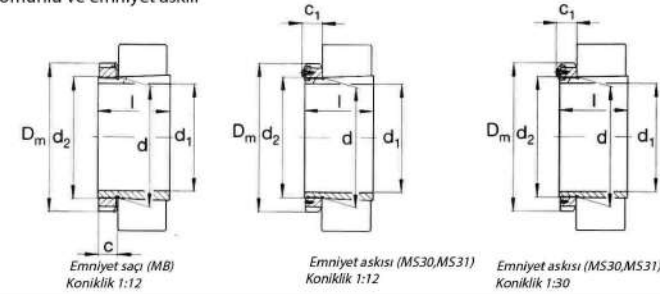
Somunlu ve emniyet saçlı



| Mil | Boyutlar |     |     |     |     | Vida    |         |     |     | Numara<br>Komple<br>germe<br>manşonu | Somun    | Emniyet<br>saçlı | Kendinden<br>emniyetli<br>altı köşeli<br>cıvata | Ağırlık<br>kg |       |      |
|-----|----------|-----|-----|-----|-----|---------|---------|-----|-----|--------------------------------------|----------|------------------|---|---------------|-------|------|
|     | d        | d1  | Dm  | l   | c   | d2      | R0      | e   | t   |                                      |          |                  |   |               |       |      |
| 150 | 170      | 150 | 220 | 154 | 29  | M170x3  |         |     |     |                                      | H2334    | KM34             | MB34  | 10.2          |       |      |
|     | 170      | 150 | 220 | 154 | 29  | M170x3  | M6      | 4.2 | 7   |                                      | H2334HG  | KM34             | MB34  | 10.2          |       |      |
|     | 170      | 150 | 220 | 175 | 29  | M170x3  |         |     |     |                                      | H3334    | KM34             | MB34  | 12.2          |       |      |
| 160 | 180      | 160 | 210 | 66  | 30  | M180x3  |         |     |     |                                      | H3836    | KML36            | MBL36   | 5.13          |       |      |
|     | 180      | 160 | 210 | 87  | 30  | M180x3  |         |     |     |                                      | H3936    | KML36            | MBL36   | 6.25          |       |      |
|     | 180      | 160 | 210 | 87  | 30  | M180x3  | M6      | 4.2 | 7   |                                      | H3936HG  | KML36            | MBL36   | 6.25          |       |      |
|     | 180      | 160 | 210 | 109 | 30  | M180x3  |         |     |     |                                      | H3036    | KML36            | MBL36   | 7.01          |       |      |
|     | 180      | 160 | 210 | 109 | 30  | M180x3  | M6      | 4.2 | 7   |                                      | H3036HG  | KML36            | MBL36   | 6.99          |       |      |
|     | 180      | 160 | 230 | 131 | 30  | M180x3  |         |     |     |                                      | H3136    | KM36             | MB36  | 9.46          |       |      |
|     | 180      | 160 | 230 | 131 | 30  | M180x3  | M6      | 4.2 | 7   |                                      | H3136HG  | KM36             | MB36  | 9.44          |       |      |
|     | 180      | 160 | 230 | 161 | 30  | M180x3  |         |     |     |                                      | H2336    | KM36             | MB36  | 12            |       |      |
|     | 180      | 160 | 230 | 161 | 30  | M180x3  | M6      | 4.2 | 7   |                                      | H2336HG  | KM36             | MB36  | 12            |       |      |
|     | 180      | 160 | 230 | 186 | 30  | M180x3  |         |     |     |                                      | H3336    | KM36             | MB36  | 13.8          |       |      |
|     | 170      | 190 | 170 | 220 | 70  | 31      | M190x3  |     |     |                                      |          | H3838            | KML38   | MBL38         | 5.72  |      |
|     |          | 190 | 170 | 220 | 89  | 31      | M190x3  |     |     |                                      |          | H3938            | KML38   | MBL38         | 6.8   |      |
| 190 |          | 170 | 220 | 89  | 31  | M190x3  | M6      | 4.2 | 7   |                                      | H3938HG  | KML38            | MBL38   | 6.8           |       |      |
| 190 |          | 170 | 220 | 112 | 31  | M190x3  |         |     |     |                                      | H3038    | KML38            | MBL38   | 7.66          |       |      |
| 190 |          | 170 | 220 | 112 | 31  | M190x3  | M6      | 4.2 | 7   |                                      | H3038HG  | KML38            | MBL38   | 7.64          |       |      |
| 190 |          | 170 | 220 | 143 | 31  | M190x3  |         |     |     |                                      | H24038   | KML38            | MBL38   | 8.82          |       |      |
| 190 |          | 170 | 220 | 143 | 31  | M190x3  | M6      | 4.2 | 7   |                                      | H24038HG | KML38            | MBL38   | 8.8           |       |      |
| 190 |          | 170 | 240 | 141 | 31  | M190x3  |         |     |     |                                      | H3138    | KM38             | MB38  | 10.8          |       |      |
| 190 |          | 170 | 240 | 141 | 31  | M190x3  | M6      | 4.2 | 7   |                                      | H3138HG  | KM38             | MB38  | 10.7          |       |      |
| 190 |          | 170 | 240 | 169 | 31  | M190x3  |         |     |     |                                      | H2338    | KM38             | MB38  | 12.7          |       |      |
| 190 |          | 170 | 240 | 169 | 31  | M190x3  | M6      | 4.2 | 7   |                                      | H2338HG  | KM38             | MB38  | 12.7          |       |      |
| 190 |          | 170 | 240 | 193 | 31  | M190x3  |         |     |     |                                      | H3338    | KM38             | MB38  | 15.4          |       |      |
| 180 | 200      | 180 | 240 | 72  | 32  | M200x3  |         |     |     |                                      | H3840    | KML40            | MBL40   | 6.79          |       |      |
|     | 200      | 180 | 240 | 98  | 32  | M200x3  |         |     |     |                                      | H3940    | KML40            | MBL40   | 7.82          |       |      |
|     | 200      | 180 | 240 | 98  | 32  | M200x3  | M6      | 4.2 | 7   |                                      | H3940HG  | KML40            | MBL40   | 7.8           |       |      |
|     | 200      | 180 | 240 | 120 | 32  | M200x3  |         |     |     |                                      | H3040    | KML40            | MBL40   | 9.22          |       |      |
|     | 200      | 180 | 240 | 120 | 32  | M200x3  | M6      | 4.2 | 7   |                                      | H3040HG  | KML40            | MBL40   | 9.2           |       |      |
|     | 200      | 180 | 240 | 153 | 32  | M200x3  |         |     |     |                                      | H24040   | KML40            | MBL40   | 10.5          |       |      |
|     | 200      | 180 | 240 | 153 | 32  | M200x3  | M6      | 4.2 | 7   |                                      | H24040HG | KML40            | MBL40   | 10.5          |       |      |
|     | 200      | 180 | 250 | 150 | 32  | M200x3  |         |     |     |                                      | H3140    | KM40             | MB40  | 12.1          |       |      |
|     | 200      | 180 | 250 | 150 | 32  | M200x3  | M6      | 4.2 | 7   |                                      | H3140HG  | KM40             | MB40  | 12.1          |       |      |
|     | 200      | 180 | 250 | 176 | 32  | M200x3  |         |     |     |                                      | H2340    | KM40             | MB40  | 14            |       |      |
|     | 200      | 180 | 250 | 176 | 32  | M200x3  | M6      | 4.2 | 7   |                                      | H2340HG  | KM40             | MB40  | 14            |       |      |
|     | 200      | 180 | 250 | 204 | 32  | M200x3  |         |     |     |                                      | H3340    | KM40             | MB40  | 17.3          |       |      |
|     | 200      | 220 | 200 | 260 | 96  | 40      | Tr220x4 | M6  | 4.2 | 7                                    |          | H3944HG          | HM3044  | MS3044        | M6x10 | 8.93 |
|     |          | 220 | 200 | 260 | 126 | 40      | Tr220x4 | M6  | 4.2 | 7                                    |          | H3044XH          | HM3044  | MS3044        | M6x10 | 10.3 |
|     |          | 220 | 200 | 280 | 161 | 35      | Tr220x4 | M6  | 4.2 | 7                                    |          | H3144XH          | HM44T   | MB44          |       | 15.4 |
| 220 |          | 200 | 280 | 186 | 35  | Tr220x4 | M6      | 4.2 | 7   |                                      | H2344XH  | HM44T            | MB44  |               | 17.5  |      |
| 220 |          | 240 | 220 | 290 | 101 | 45      | Tr240x4 | M6  | 4.2 | 7                                    |          | H3948HG          | HM3048  | MS3048        | M8x16 | 11.7 |
|     | 240      | 220 | 290 | 133 | 45  | Tr240x4 | M6      | 4.2 | 7   |                                      | H3048HG  | HM3048           | MS3048  | M8x16         | 13.3  |      |

## GERME MANŞONLAR

Somunlu ve emniyet askılı

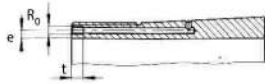


| Mil | Boyutlar |     |     |     |    | Vida |         |    |     | Numara<br>Komple<br>germe<br>manşonu | Somun | Emniyet<br>saçlı | Kendinden<br>emniyetli<br>altı köşeli<br>cıvata | Ağırlık<br>kg |        |      |
|-----|----------|-----|-----|-----|----|------|---------|----|-----|--------------------------------------|-------|------------------|---|---------------|--------|------|
|     | d        | d1  | Dm  | l   | c  | c1   | d2      | R0 | e   |                                      |       |                  |   |               | t      |      |
| 220 | 240      | 220 | 290 | 167 |    | 45   | Tr240x4 | M6 | 4.2 | 7                                    |       | H24048HG         | HM3048  | MS3048        | M8x16  | 14.8 |
|     | 240      | 220 | 300 | 172 | 37 |      | Tr240x4 | M6 | 4.2 | 7                                    |       | H3148XH          | HM48T   | MB48          |        | 18   |
|     | 240      | 220 | 300 | 199 | 37 |      | Tr240x4 | M6 | 4.2 | 7                                    |       | H2348XH          | HM48T   | MB48          |        | 20.5 |
| 240 | 260      | 240 | 310 | 116 |    | 45   | Tr260x4 | M6 | 4.2 | 7                                    |       | H3952HG          | HM3052  | MS3048        | M8x16  | 14   |
|     | 260      | 240 | 310 | 145 |    | 45   | Tr260x4 | M6 | 4.2 | 7                                    |       | H3052XH          | HM3052  | MS3048        | M8x16  | 15.5 |
|     | 260      | 240 | 330 | 190 | 39 |      | Tr260x4 | M6 | 4.2 | 7                                    |       | H3152XH          | HM52T   | MB52          |        | 22.9 |
|     | 260      | 240 | 330 | 211 | 39 |      | Tr260x4 | M6 | 4.2 | 7                                    |       | H2352XH          | HM52T   | MB52          |        | 25.1 |
| 260 | 280      | 260 | 330 | 121 |    | 49   | Tr280x4 | M6 | 4.2 | 7                                    |       | H3956HG          | HM3056  | MS3056        | M8x16  | 15   |
|     | 280      | 260 | 330 | 152 |    | 49   | Tr280x4 | M6 | 4.2 | 7                                    |       | H3056HG          | HM3056  | MS3056        | M8x16  | 17.9 |
|     | 280      | 260 | 330 | 195 |    | 49   | Tr280x4 | M6 | 4.2 | 7                                    |       | H24056HG         | HM3056  | MS3056        | M8x16  | 20.2 |
|     | 280      | 260 | 350 | 195 | 41 |      | Tr280x4 | M6 | 4.2 | 7                                    |       | H3156XH          | HM56T   | MB56          |        | 25.4 |
|     | 280      | 260 | 350 | 224 | 41 |      | Tr280x4 | M6 | 4.2 | 7                                    |       | H2356XH          | HM56T   | MB56          |        | 28.7 |
| 280 | 300      | 280 | 360 | 140 |    | 53   | Tr300x4 | M6 | 4.2 | 7                                    |       | H3960HG          | HM3060  | MS3060        | M8x16  | 20.2 |
|     | 300      | 280 | 360 | 168 |    | 53   | Tr300x4 | M6 | 4.2 | 7                                    |       | H3060HG          | HM3060  | MS3060        | M8x16  | 23.2 |
|     | 300      | 280 | 380 | 208 |    | 53   | Tr300x4 | M6 | 4.2 | 7                                    |       | H3160HG          | HM3160  | MS3160        | M10x20 | 29.9 |
|     | 300      | 280 | 380 | 240 |    | 53   | Tr300x4 | M6 | 4.2 | 7                                    |       | H3260HG          | HM3160  | MS3160        | M10x20 | 34   |
| 300 | 320      | 300 | 380 | 140 |    | 56   | Tr320x5 | M6 | 3.5 | 7                                    |       | H3964HG          | HM3064  | MS3064        | M8x16  | 21.5 |
|     | 320      | 300 | 380 | 171 |    | 56   | Tr320x5 | M6 | 3.5 | 7                                    |       | H3064HG          | HM3064  | MS3064        | M8x16  | 25   |
|     | 320      | 300 | 400 | 226 |    | 56   | Tr320x5 | M6 | 3.5 | 7                                    |       | H3164HG          | HM3164  | MS3164        | M10x20 | 34.7 |
|     | 320      | 300 | 400 | 258 |    | 56   | Tr320x5 | M6 | 3.5 | 7                                    |       | H3264HG          | HM3164  | MS3164        | M10x20 | 39.3 |
| 320 | 340      | 320 | 400 | 144 |    | 57   | Tr340x5 | M6 | 3.5 | 7                                    |       | H3968HG          | HM3068  | MS3064        | M8x16  | 23.9 |
|     | 340      | 320 | 400 | 187 |    | 57   | Tr340x5 | M6 | 3.5 | 7                                    |       | H3068HG          | HM3068  | MS3064        | M8x16  | 29.2 |
|     | 340      | 320 | 400 | 244 |    | 57   | Tr340x5 | M6 | 3.5 | 7                                    |       | H24068HG         | HM3068  | MS3064        | M8x16  | 32.9 |
|     | 340      | 320 | 440 | 254 |    | 70   | Tr340x5 | M6 | 3.5 | 7                                    |       | H3168HG          | HM3168  | MS3168        | M12x22 | 49.5 |
|     | 340      | 320 | 440 | 288 |    | 70   | Tr340x5 | M6 | 3.5 | 7                                    |       | H3268HG          | HM3168  | MS3168        | M12x22 | 44.6 |
| 340 | 360      | 340 | 420 | 144 |    | 57   | Tr360x5 | M6 | 3.5 | 7                                    |       | H3972HG          | HM3072  | MS3072        | M8x16  | 27.1 |
|     | 360      | 340 | 420 | 188 |    | 57   | Tr360x5 | M6 | 3.5 | 7                                    |       | H3072HG          | HM3072  | MS3072        | M8x16  | 30.8 |
|     | 360      | 340 | 460 | 259 |    | 73   | Tr360x5 | M6 | 3.5 | 7                                    |       | H3172HG          | HM3172  | MS3168        | M12x22 | 54.3 |
|     | 360      | 340 | 460 | 299 |    | 73   | Tr360x5 | M6 | 3.5 | 7                                    |       | H3272HG          | HM3172  | MS3168        | M12x22 | 61   |
| 360 | 380      | 360 | 450 | 164 |    | 62   | Tr380x5 | M6 | 3.5 | 7                                    |       | H3976HG          | HM3076  | MS3076        | M10x20 | 32.3 |
|     | 380      | 360 | 450 | 193 |    | 62   | Tr380x5 | M6 | 3.5 | 7                                    |       | H3076HG          | HM3076  | MS3076        | M10x20 | 36.4 |
|     | 380      | 360 | 490 | 264 |    | 75   | Tr380x5 | M6 | 3.5 | 7                                    |       | H3176HG          | HM3176  | MS3176        | M12x22 | 60.9 |
|     | 380      | 360 | 490 | 310 |    | 75   | Tr380x5 | M6 | 3.5 | 7                                    |       | H3276HG          | HM3176  | MS3176        | M12x22 | 69.2 |
| 380 | 400      | 380 | 470 | 168 |    | 66   | Tr400x5 | M6 | 3.5 | 7                                    |       | H3980HG          | HM3080  | MS3076        | M10x20 | 38.5 |
|     | 400      | 380 | 470 | 210 |    | 66   | Tr400x5 | M6 | 3.5 | 7                                    |       | H3080HG          | HM3080  | MS3076        | M10x20 | 42.2 |
|     | 400      | 380 | 520 | 272 |    | 81   | Tr400x5 | M6 | 3.5 | 7                                    |       | H3180HG          | HM3180  | MS3180        | M16x25 | 69.5 |
|     | 400      | 380 | 520 | 328 |    | 81   | Tr400x5 | M6 | 3.5 | 7                                    |       | H3280HG          | HM3180  | MS3180        | M16x25 | 80.4 |



GERME MANŞONLAR

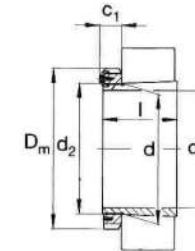
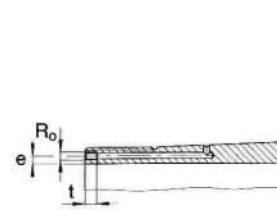
Somunlu ve emniyet askılı



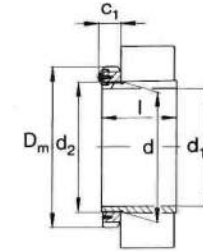
| Mil | Boyutlar |                |                |     |                | Vida           |                |     |    | Numara               |          |                | Kendinden emniyetli altı köşeli civata | Ağırlık kg |
|-----|----------|----------------|----------------|-----|----------------|----------------|----------------|-----|----|----------------------|----------|----------------|--|------------|
|     | d        | d <sub>1</sub> | D <sub>m</sub> | l   | c <sub>1</sub> | d <sub>2</sub> | R <sub>0</sub> | e   | t  | Komple germe manşonu | Somun    | Emniyet askısı |  |            |
| 400 | 420      | 400            | 490            | 168 | 66             | Tr420x5        | M6             | 3.5 | 7  | <b>H3984HG</b>       | HM3084   | MS3084         | M10x20                                 | 37.4       |
|     | 420      | 400            | 490            | 212 | 66             | Tr420x5        | M6             | 3.5 | 7  | <b>H3084XHG</b>      | HM3084   | MS3084         | M10x20                                 | 44.5       |
|     | 420      | 400            | 490            | 274 | 66             | Tr420x5        | M6             | 3.5 | 7  | <b>H24084HG</b>      | HM3084   | MS3084         | M10x20                                 | 49.1       |
|     | 420      | 400            | 540            | 304 | 89             | Tr420x5        | M6             | 3.5 | 7  | <b>H3184HG</b>       | HM3184   | MS3180         | M16x25                                 | 84.4       |
|     | 420      | 400            | 540            | 352 | 89             | Tr420x5        | M6             | 3.5 | 7  | <b>H3284HG</b>       | HM3184   | MS3180         | M16x25                                 | 101        |
| 410 | 440      | 410            | 520            | 189 | 75             | Tr440x5        | M8             | 6.5 | 12 | <b>H3988HG</b>       | HM3088   | MS3088         | M12x22                                 | 61.9       |
|     | 440      | 410            | 520            | 228 | 75             | Tr440x5        | M8             | 6.5 | 12 | <b>H3088HG</b>       | HM3088   | MS3088         | M12x22                                 | 66.9       |
|     | 440      | 410            | 560            | 307 | 89             | Tr440x5        | M8             | 6.5 | 12 | <b>H3188HG</b>       | HM3188   | MS3188         | M16x25                                 | 103        |
|     | 440      | 410            | 560            | 361 | 89             | Tr440x5        | M8             | 6.5 | 12 | <b>H3288HG</b>       | HM3188   | MS3188         | M16x25                                 | 125        |
| 430 | 460      | 430            | 540            | 189 | 75             | Tr460x5        | M8             | 6.5 | 12 | <b>H3992HG</b>       | HM3092   | MS3088         | M12x22                                 | 64.7       |
|     | 460      | 430            | 540            | 234 | 75             | Tr460x5        | M8             | 6.5 | 12 | <b>H3092HG</b>       | HM3092   | MS3088         | M12x22                                 | 76         |
|     | 460      | 430            | 580            | 326 | 94             | Tr460x5        | M8             | 6.5 | 12 | <b>H3192HG</b>       | HM3192   | MS3188         | M16x25                                 | 127        |
|     | 460      | 430            | 580            | 382 | 94             | Tr460x5        | M8             | 6.5 | 12 | <b>H3292HG</b>       | HM3192   | MS3188         | M16x25                                 | 137        |
| 450 | 480      | 450            | 560            | 200 | 75             | Tr480x5        | M8             | 6.5 | 12 | <b>H3996HG</b>       | HM3096   | MS3096         | M12x22                                 | 70.2       |
|     | 480      | 450            | 560            | 237 | 75             | Tr480x5        | M8             | 6.5 | 12 | <b>H3096HG</b>       | HM3096   | MS3096         | M12x22                                 | 75.1       |
|     | 480      | 450            | 620            | 335 | 94             | Tr480x5        | M8             | 6.5 | 12 | <b>H3196HG</b>       | HM3196   | MS3196         | M16x25                                 | 134        |
|     | 480      | 450            | 620            | 397 | 94             | Tr480x5        | M8             | 6.5 | 12 | <b>H3296HG</b>       | HM3196   | MS3196         | M16x25                                 | 154        |
| 470 | 500      | 470            | 580            | 208 | 83             | Tr500x5        | M8             | 6.5 | 12 | <b>H39/500HG</b>     | HM30/500 | MS3096         | M12x22                                 | 73.5       |
|     | 500      | 470            | 580            | 247 | 83             | Tr500x5        | M8             | 6.5 | 12 | <b>H30/500HG</b>     | HM30/500 | MS3096         | M12x22                                 | 84.3       |
|     | 500      | 470            | 580            | 309 | 83             | Tr500x5        | M8             | 6.5 | 12 | <b>H240/500HG</b>    | HM30/500 | MS3096         | M12x22                                 | 92.6       |
|     | 500      | 470            | 630            | 356 | 99             | Tr500x5        | M8             | 6.5 | 12 | <b>H31/500HG</b>     | HM31/500 | MS31/500       | M16x25                                 | 143        |
|     | 500      | 470            | 630            | 428 | 99             | Tr500x5        | M8             | 6.5 | 12 | <b>H32/500HG</b>     | HM31/500 | MS31/500       | M16x25                                 | 168        |
| 500 | 530      | 500            | 630            | 216 | 89             | Tr530x6        | M8             | 6   | 12 | <b>H39/530HG</b>     | HM30/530 | MS30/530       | M16x25                                 | 89.1       |
|     | 530      | 500            | 630            | 265 | 89             | Tr530x6        | M8             | 6   | 12 | <b>H30/530HG</b>     | HM30/530 | MS30/530       | M16x25                                 | 110        |
|     | 530      | 500            | 630            | 343 | 89             | Tr530x6        | M8             | 6   | 12 | <b>H240/530HG</b>    | HM30/530 | MS30/530       | M16x25                                 | 115        |
|     | 530      | 500            | 670            | 364 | 102            | Tr530x6        | M8             | 6   | 12 | <b>H31/530HG</b>     | HM31/530 | MS31/530       | M20x40                                 | 160        |
| 530 | 560      | 530            | 650            | 227 | 96             | Tr560x6        | M8             | 6   | 12 | <b>H39/560HG</b>     | HM30/560 | MS30/560       | M16x25                                 | 95.6       |
|     | 560      | 530            | 650            | 282 | 96             | Tr560x6        | M8             | 6   | 12 | <b>H30/560HG</b>     | HM30/560 | MS30/560       | M16x25                                 | 112        |
|     | 560      | 530            | 650            | 358 | 96             | Tr560x6        | M8             | 6   | 12 | <b>H240/560HG</b>    | HM30/560 | MS30/560       | M16x25                                 | 124        |
|     | 560      | 530            | 710            | 377 | 107            | Tr560x6        | M8             | 6   | 12 | <b>H31/560HG</b>     | HM31/560 | MS31/560       | M20x40                                 | 183        |
|     | 560      | 530            | 710            | 462 | 107            | Tr560x6        | M8             | 6   | 12 | <b>H32/560HG</b>     | HM31/560 | MS31/560       | M20x40                                 | 217        |
|     | 560      | 530            | 710            | 468 | 107            | Tr560x6        | M8             | 6   | 12 | <b>H241/560HG</b>    | HM31/560 | MS31/560       | M20x40                                 | 193        |
| 560 | 600      | 560            | 700            | 239 | 96             | Tr600x6        | G1/8           | 8   | 12 | <b>H39/600HG</b>     | HM30/600 | MS30/530       | M16x25                                 | 137        |
|     | 600      | 560            | 700            | 289 | 96             | Tr600x6        | G1/8           | 8   | 12 | <b>H30/600HG</b>     | HM30/600 | MS30/530       | M16x25                                 | 149        |
|     | 600      | 560            | 700            | 377 | 96             | Tr600x6        | G1/8           | 8   | 12 | <b>H240/600HG</b>    | HM30/600 | MS30/530       | M16x25                                 | 171        |
|     | 600      | 560            | 750            | 399 | 107            | Tr600x6        | G1/8           | 8   | 12 | <b>H31/600HG</b>     | HM31/600 | MS31/560       | M20x40                                 | 233        |
|     | 600      | 560            | 750            | 490 | 107            | Tr600x6        | G1/8           | 8   | 12 | <b>H241/600HG</b>    | HM31/600 | MS31/560       | M20x40                                 | 247        |

GERME MANŞONLAR

Somunlu ve emniyet askılı



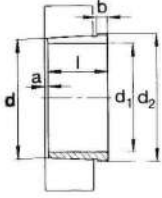
Emniyet askılı  
Koniklik 1:12



Emniyet askılı  
Koniklik 1:30 (H240, H:241)

| Mil  | Boyutlar |                |                |     |                | Vida           |                |    |                   | Numara               |           |                | Kendinden emniyetli altı köşeli civata | Ağırlık kg |
|------|----------|----------------|----------------|-----|----------------|----------------|----------------|----|-------------------|----------------------|-----------|----------------|--|------------|
|      | d        | d <sub>1</sub> | D <sub>m</sub> | l   | c <sub>1</sub> | d <sub>2</sub> | R <sub>0</sub> | e  | t                 | Komple germe manşonu | Somun     | Emniyet askısı |  |            |
| 600  | 630      | 600            | 730            | 254 | 96             | Tr630x6        | M8             | 6  | 12                | <b>H39/630HG</b>     | HM30/630  | MS30/630       | M16x25                                 | 123        |
|      | 630      | 600            | 730            | 301 | 96             | Tr630x6        | M8             | 6  | 12                | <b>H30/630HG</b>     | HM30/630  | MS30/630       | M16x25                                 | 140        |
|      | 630      | 600            | 730            | 395 | 96             | Tr630x6        | M8             | 6  | 12                | <b>H240/630HG</b>    | HM30/630  | MS30/630       | M16x25                                 | 157        |
|      | 630      | 600            | 800            | 424 | 117            | Tr630x6        | M8             | 6  | 12                | <b>H31/630HG</b>     | HM31/630  | MS31/630       | M20x40                                 | 265        |
|      | 630      | 600            | 800            | 521 | 117            | Tr630x6        | M8             | 6  | 12                | <b>H32/630HG</b>     | HM31/630  | MS31/630       | M20x40                                 | 296        |
|      | 630      | 600            | 800            | 525 | 117            | Tr630x6        | M8             | 6  | 12                | <b>H241/630HG</b>    | HM31/630  | MS31/630       | M20x40                                 | 261        |
| 630  | 670      | 630            | 780            | 264 | 101            | Tr670x6        | G1/8           | 8  | 12                | <b>H39/670HG</b>     | HM30/670  | MS30/670       | M16x25                                 | 166        |
|      | 670      | 630            | 780            | 324 | 101            | Tr670x6        | G1/8           | 8  | 12                | <b>H30/670HG</b>     | HM30/670  | MS30/670       | M16x25                                 | 194        |
|      | 670      | 630            | 780            | 418 | 101            | Tr670x6        | G1/8           | 8  | 12                | <b>H240/670HG</b>    | HM30/670  | MS30/670       | M16x25                                 | 218        |
|      | 670      | 630            | 850            | 456 | 128            | Tr670x6        | G1/8           | 8  | 12                | <b>H31/670HG</b>     | HM31/670  | MS31/670       | M20x40                                 | 343        |
| 670  | 630      | 850            | 548            | 128 | Tr670x6        | G1/8           | 8              | 12 | <b>H241/670HG</b> | HM31/670             | MS31/670  | M20x40         | 352                                    |            |
| 670  | 710      | 670            | 830            | 286 | 111            | Tr710x7        | G1/8           | 8  | 12                | <b>H39/710HG</b>     | HM30/710  | MS30/710       | M16x25                                 | 201        |
|      | 710      | 670            | 830            | 342 | 111            | Tr710x7        | G1/8           | 8  | 12                | <b>H30/710HG</b>     | HM30/710  | MS30/710       | M16x25                                 | 229        |
|      | 710      | 670            | 900            | 467 | 131            | Tr710x7        | G1/8           | 8  | 12                | <b>H31/710HG</b>     | HM31/710  | MS31/710       | M24x45                                 | 395        |
| 710  | 750      | 710            | 870            | 291 | 111            | Tr750x7        | G1/8           | 8  | 12                | <b>H39/750HG</b>     | HM30/750  | MS30/750       | M16x25                                 | 227        |
|      | 750      | 710            | 950            | 493 | 137            | Tr750x7        | G1/8           | 8  | 12                | <b>H31/750HG</b>     | HM31/750  | MS31/750       | M24x45                                 | 433        |
| 750  | 800      | 750            | 920            | 303 | 111            | Tr800x7        | G1/8           | 10 | 12                | <b>H39/800HG</b>     | HM30/800  | MS30/750       | M16x25                                 | 263        |
|      | 800      | 750            | 920            | 366 | 111            | Tr800x7        | G1/8           | 10 | 12                | <b>H30/800HG</b>     | HM30/800  | MS30/750       | M16x25                                 | 306        |
| 800  | 850      | 800            | 980            | 308 | 112            | Tr850x7        | G1/8           | 10 | 12                | <b>H39/850HG</b>     | HM30/850  | MS30/850       | M20x40                                 | 300        |
| 850  | 900      | 850            | 1030           | 326 | 122            | Tr900x7        | G1/8           | 10 | 12                | <b>H39/900HG</b>     | HM30/900  | MS30/850       | M20x40                                 | 326        |
|      | 900      | 850            | 1030           | 400 | 112            | Tr900x7        | G1/8           | 10 | 12                | <b>H30/900HG</b>     | HM30/900  | MS30/850       | M20x40                                 | 426        |
| 900  | 950      | 900            | 1080           | 344 | 122            | Tr950x8        | G1/8           | 10 | 12                | <b>H39/950HG</b>     | HM30/950  | MS30/950       | M20x40                                 | 380        |
| 950  | 1000     | 950            | 1140           | 358 | 122            | Tr1000x8       | G1/8           | 10 | 12                | <b>H39/1000HG</b>    | HM30/1000 | MS30/1000      | M20x40                                 | 428        |
| 1000 | 1060     | 1000           | 1200           | 372 | 122            | Tr1060x8       | G1/8           | 10 | 12                | <b>H39/1060HG</b>    | HM30/1060 | MS30/1000      | M20x40                                 | 488        |

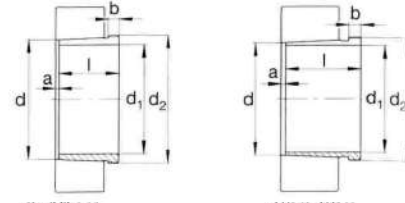
ÇAKMA MANŞONLAR



Koniklik 1:12  
a mesafesi: manşon takılmadan önce

| Mil | Boyutlar |                |    | Vida |    | Numara  | Ağırlık  |                |
|-----|----------|----------------|----|------|----|---------|----------|----------------|
|     | d<br>mm  | d <sub>1</sub> | l  | a    | b  |         |          | d <sub>2</sub> |
| 35  | 40       | 35             | 25 | 2    | 6  | M45x1,5 | AH208    | 0.081          |
|     | 40       | 35             | 29 | 3    | 6  | M45x1,5 | AH308    | 0.09           |
|     | 40       | 35             | 40 | 3    | 7  | M45x1,5 | AH2308   | 0.13           |
|     | 40       | 35             | 44 | 3    | 7  | M45x1,5 | AH3308   | 0.147          |
| 40  | 45       | 40             | 26 | 3    | 6  | M50x1,5 | AH209    | 0.095          |
|     | 45       | 40             | 31 | 3    | 6  | M50x1,5 | AH309    | 0.11           |
|     | 45       | 40             | 44 | 3    | 7  | M50x1,5 | AH2309   | 0.134          |
|     | 45       | 40             | 47 | 3    | 7  | M50x1,5 | AH3309   | 0.15           |
| 45  | 50       | 45             | 28 | 3    | 7  | M55x2   | AH210    | 0.114          |
|     | 50       | 45             | 35 | 3    | 7  | M55x2   | AHX310   | 0.139          |
|     | 50       | 45             | 50 | 3    | 9  | M55x2   | AHX2310  | 0.213          |
|     | 50       | 45             | 54 | 3    | 9  | M55x2   | AH3310   | 0.24           |
| 50  | 55       | 50             | 29 | 3    | 7  | M60x2   | AH211    | 0.132          |
|     | 55       | 50             | 37 | 3    | 7  | M60x2   | AHX311   | 0.164          |
|     | 55       | 50             | 54 | 3    | 10 | M60x2   | AHX2311  | 0.258          |
|     | 55       | 50             | 60 | 3    | 10 | M60x2   | AH3311   | 0.301          |
| 55  | 60       | 55             | 32 | 3    | 8  | M65x2   | AH212    | 0.161          |
|     | 60       | 55             | 40 | 3    | 8  | M65x2   | AHX312   | 0.189          |
|     | 60       | 55             | 58 | 3    | 11 | M65x2   | AHX2312  | 0.305          |
|     | 60       | 55             | 65 | 3    | 11 | M70x2   | AH3312   | 0.408          |
| 60  | 65       | 60             | 33 | 4    | 8  | M75x2   | AH213    | 0.213          |
|     | 65       | 60             | 33 | 4    | 8  | M70x2   | AH213G   | 0.168          |
|     | 65       | 60             | 42 | 3    | 8  | M75x2   | AH313    | 0.264          |
|     | 65       | 60             | 42 | 3    | 8  | M70x2   | AH313G   | 0.224          |
|     | 65       | 60             | 61 | 3    | 12 | M75x2   | AH2313   | 0.4            |
|     | 65       | 60             | 61 | 3    | 12 | M70x2   | AH2313G  | 0.352          |
|     | 65       | 60             | 71 | 3    | 12 | M75x2   | AH3313   | 0.492          |
|     | 65       | 60             | 71 | 3    | 12 | M75x2   | AH3313   | 0.492          |
| 65  | 70       | 65             | 34 | 4    | 8  | M80x2   | AH214    | 0.24           |
|     | 70       | 65             | 34 | 4    | 8  | M75x2   | AH214G   | 0.187          |
|     | 70       | 65             | 43 | 4    | 8  | M80x2   | AH314    | 0.28           |
|     | 70       | 65             | 43 | 4    | 8  | M75x2   | AH314G   | 0.25           |
|     | 70       | 65             | 64 | 4    | 12 | M80x2   | AHX2314  | 0.459          |
|     | 70       | 65             | 64 | 4    | 12 | M75x2   | AHX2314G | 0.407          |
|     | 70       | 65             | 76 | 4    | 12 | M80x2   | AH3314   | 0.572          |
|     | 70       | 65             | 76 | 4    | 12 | M80x2   | AH3314   | 0.572          |
| 70  | 75       | 70             | 35 | 4    | 8  | M85x2   | AH215    | 0.259          |
|     | 75       | 70             | 35 | 4    | 8  | M80x2   | AH215G   | 0.207          |
|     | 75       | 70             | 45 | 4    | 8  | M85x2   | AH315    | 0.32           |
|     | 75       | 70             | 45 | 4    | 8  | M80x2   | AH315G   | 0.284          |
|     | 75       | 70             | 68 | 4    | 12 | M85x2   | AHX2315  | 0.534          |
|     | 75       | 70             | 68 | 4    | 12 | M80x2   | AHX2315G | 0.473          |
|     | 75       | 70             | 81 | 4    | 12 | M85x2   | AH3315   | 0.668          |
|     | 75       | 70             | 81 | 4    | 12 | M85x2   | AH3315   | 0.668          |

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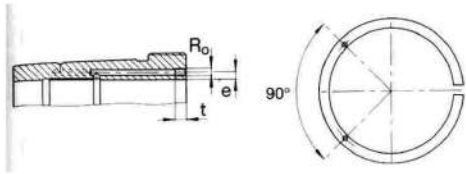
Koniklik 1:12

AH240, AH241  
Koniklik 1:30

| Mil | Boyutlar |                |     | Vida |    | Numara | Ağırlık  |                |
|-----|----------|----------------|-----|------|----|--------|----------|----------------|
|     | d<br>mm  | d <sub>1</sub> | l   | a    | b  |        |          | d <sub>2</sub> |
| 75  | 80       | 75             | 36  | 4    | 8  | M90x2  | AH216    | 0.284          |
|     | 80       | 75             | 48  | 4    | 8  | M90x2  | AH316    | 0.366          |
|     | 80       | 75             | 71  | 4    | 12 | M90x2  | AHX2316  | 0.594          |
|     | 80       | 75             | 81  | 4    | 12 | M90x2  | AH3316   | 0.712          |
| 80  | 85       | 80             | 39  | 4    | 9  | M95x2  | AH217    | 0.314          |
|     | 85       | 80             | 52  | 4    | 9  | M95x2  | AHX317   | 0.429          |
|     | 85       | 80             | 60  | 4    | 10 | M95x2  | AH3217   | 0.517          |
|     | 85       | 80             | 74  | 4    | 13 | M95x2  | AHX2317  | 0.672          |
|     | 85       | 80             | 86  | 4    | 13 | M95x2  | AH3317   | 0.81           |
| 85  | 90       | 85             | 40  | 4    | 9  | M100x2 | AH218    | 0.351          |
|     | 90       | 85             | 53  | 4    | 9  | M100x2 | AHX318   | 0.466          |
|     | 90       | 85             | 63  | 4    | 10 | M100x2 | AHX3218  | 0.576          |
|     | 90       | 85             | 79  | 4    | 14 | M100x2 | AHX2318  | 0.774          |
|     | 90       | 85             | 87  | 4    | 14 | M100x2 | AH3318   | 0.88           |
| 90  | 95       | 90             | 43  | 4    | 10 | M105x2 | AH219    | 0.403          |
|     | 95       | 90             | 57  | 4    | 10 | M105x2 | AHX319   | 0.532          |
|     | 95       | 90             | 85  | 4    | 16 | M105x2 | AHX2319  | 0.894          |
|     | 95       | 90             | 94  | 4    | 16 | M105x2 | AH3319   | 1.03           |
| 95  | 100      | 95             | 45  | 4    | 10 | M110x2 | AH220    | 0.481          |
|     | 100      | 95             | 59  | 4    | 10 | M110x2 | AHX320   | 0.603          |
|     | 100      | 95             | 62  | 9    | 12 | M105x2 | AH24020  | 0.5            |
|     | 100      | 95             | 64  | 4    | 11 | M110x2 | AHX3120  | 0.65           |
|     | 100      | 95             | 78  | 9    | 13 | M105x2 | AH24120  | 0.641          |
|     | 100      | 95             | 73  | 4    | 11 | M110x2 | AHX3220  | 0.765          |
|     | 100      | 95             | 90  | 4    | 16 | M110x2 | AHX2320  | 1.01           |
|     | 100      | 95             | 99  | 4    | 16 | M110x2 | AH3320   | 1.16           |
| 105 | 110      | 105            | 50  | 4    | 11 | M120x2 | AH222    | 0.547          |
|     | 110      | 105            | 63  | 4    | 12 | M120x2 | AHX322   | 0.663          |
|     | 110      | 105            | 73  | 9    | 13 | M115x2 | AH24022  | 0.64           |
|     | 110      | 105            | 68  | 4    | 11 | M120x2 | AHX3122  | 0.76           |
|     | 110      | 105            | 82  | 9    | 13 | M115x2 | AH24122  | 0.73           |
|     | 110      | 105            | 98  | 4    | 16 | M125x2 | AHX2322  | 1.35           |
|     | 110      | 105            | 98  | 4    | 16 | M120x2 | AHX2322G | 1.24           |
|     | 110      | 105            | 108 | 4    | 16 | M125x2 | AH3322   | 1.54           |
|     | 110      | 105            | 108 | 4    | 16 | M125x2 | AH3322   | 1.54           |
|     | 110      | 105            | 108 | 4    | 16 | M125x2 | AH3322   | 1.54           |
| 115 | 120      | 115            | 53  | 4    | 12 | M130x2 | AH224    | 0.679          |
|     | 120      | 115            | 60  | 4    | 13 | M130x2 | AHX3024  | 0.75           |
|     | 120      | 115            | 73  | 9    | 13 | M125x2 | AH24024  | 0.65           |
|     | 120      | 115            | 75  | 4    | 12 | M130x2 | AHX3124  | 0.957          |
|     | 120      | 115            | 93  | 9    | 13 | M130x2 | AH24124  | 1              |
|     | 120      | 115            | 105 | 4    | 17 | M135x2 | AHX2324  | 1.61           |
|     | 120      | 115            | 105 | 4    | 17 | M130x2 | AHX2324G | 1.48           |
|     | 120      | 115            | 123 | 4    | 17 | M135x2 | AH3324   | 1.98           |

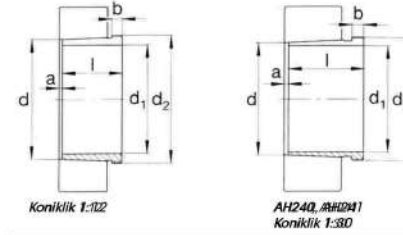


ÇAKMA MANŞONLAR



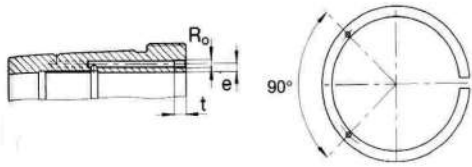
| Mil | Boyutlar |                |     | Vida |        |                | Numara   | Ağırlık |                  |
|-----|----------|----------------|-----|------|--------|----------------|----------|---------|------------------|
|     | d<br>mm  | d <sub>1</sub> | l   | a    | b      | d <sub>2</sub> |          |         | Çakma<br>Manşonu |
| 125 | 130      | 125            | 53  | 4    | 12     | M140x2         | AH226    | 0.725   |                  |
|     | 130      | 125            | 67  | 4    | 14     | M140x2         | AHX3026  | 0.93    |                  |
|     | 130      | 125            | 83  | 10   | 14     | M135x2         | AH24026  | 0.84    |                  |
|     | 130      | 125            | 78  | 4    | 12     | M140x2         | AHX3126  | 1.08    |                  |
|     | 130      | 125            | 94  | 10   | 14     | M140x2         | AH24126  | 1.12    |                  |
|     | 130      | 125            | 98  | 4    | 15     | M145x2         | AHX3226  | 1.59    |                  |
|     | 130      | 125            | 98  | 4    | 15     | M140x2         | AHX3226G | 1.47    |                  |
|     | 130      | 125            | 115 | 4    | 19     | M145x2         | AHX2326  | 1.98    |                  |
|     | 130      | 125            | 115 | 4    | 19     | M140x2         | AHX2326G | 1.83    |                  |
|     | 130      | 125            | 131 | 4    | 19     | M145x2         | AH3326   | 2.34    |                  |
|     | 135      | 140            | 135 | 56   | 5      | 13             | M150x2   | AH228   | 0.818            |
|     |          | 140            | 135 | 68   | 5      | 14             | M150x2   | AHX3028 | 1.01             |
| 140 |          | 135            | 83  | 10   | 14     | M145x2         | AH24028  | 0.944   |                  |
| 140 |          | 135            | 83  | 5    | 14     | M150x2         | AHX3128  | 1.28    |                  |
| 140 |          | 135            | 99  | 10   | 14     | M150x2         | AH24128  | 1.28    |                  |
| 140 |          | 135            | 104 | 5    | 15     | M155x3         | AHX3228  | 1.83    |                  |
| 140 |          | 135            | 104 | 5    | 15     | M150x2         | AHX3228G | 1.72    |                  |
| 140 |          | 135            | 125 | 5    | 20     | M155x3         | AHX2328  | 2.36    |                  |
| 140 |          | 135            | 125 | 5    | 20     | M150x2         | AHX2328G | 2.21    |                  |
| 140 |          | 135            | 138 | 5    | 20     | M155x3         | AH3328   | 2.7     |                  |
| 145 |          | 150            | 145 | 60   | 5      | 14             | M160x3   | AH230   | 0.963            |
|     |          | 150            | 145 | 83   | 5      | 15             | M160x3   | AHX330G | 1.36             |
|     | 150      | 145            | 72  | 5    | 15     | M160x3         | AHX3030  | 1.15    |                  |
|     | 150      | 145            | 90  | 11   | 15     | M155x3         | AH24030  | 1.11    |                  |
|     | 150      | 145            | 96  | 5    | 15     | M165x3         | AHX3130  | 1.78    |                  |
|     | 150      | 145            | 96  | 5    | 15     | M160x3         | AHX3130G | 1.64    |                  |
|     | 150      | 145            | 115 | 11   | 15     | M160x3         | AH24130  | 1.62    |                  |
|     | 150      | 145            | 114 | 5    | 17     | M165x3         | AHX3230  | 2.23    |                  |
|     | 150      | 145            | 114 | 5    | 17     | M160x3         | AHX3230G | 2.07    |                  |
|     | 150      | 145            | 135 | 5    | 24     | M165x3         | AHX2330  | 2.83    |                  |
|     | 150      | 145            | 135 | 5    | 24     | M160x3         | AHX2330G | 2.6     |                  |
|     | 150      | 145            | 152 | 5    | 24     | M165x3         | AH3330   | 3.34    |                  |
| 150 | 160      | 150            | 64  | 5    | 15     | M170x3         | AH232    | 1.7     |                  |
|     | 160      | 150            | 88  | 5    | 16     | M180x3         | AH332    | 2.69    |                  |
|     | 160      | 150            | 88  | 5    | 16     | M170x3         | AH332G   | 2.37    |                  |
|     | 160      | 150            | 77  | 5    | 16     | M170x3         | AH3032   | 2.06    |                  |
|     | 160      | 150            | 77  | 5    | 16     | M170x3         | AH3032H  | 2       |                  |
|     | 160      | 150            | 95  | 11   | 15     | M170x3         | AH24032  | 2.27    |                  |
|     | 160      | 150            | 95  | 11   | 15     | M170x3         | AH24032H | 2.27    |                  |
|     | 160      | 150            | 103 | 5    | 16     | M170x3         | AH3132A  | 2.87    |                  |
|     | 160      | 150            | 103 | 5    | 16     | M170x3         | AH3132AH | 2.81    |                  |
|     | 160      | 150            | 124 | 11   | 15     | M170x3         | AH24132  | 3       |                  |
|     | 160      | 150            | 124 | 6    | 20     | M180x3         | AH3232   | 4.03    |                  |
|     | 160      | 150            | 124 | 6    | 20     | M180x3         | AH3232H  | 3.97    |                  |
| 160 | 150      | 124            | 6   | 20   | M170x3 | AH3232G        | 3.63     |         |                  |
| 160 | 150      | 140            | 6   | 24   | M180x3 | AH2332         | 4.72     |         |                  |
| 160 | 150      | 140            | 6   | 24   | M180x3 | AH2332H        | 4.66     |         |                  |
| 160 | 150      | 140            | 6   | 24   | M170x3 | AH2332G        | 4.24     |         |                  |

ÇAKMA MANŞONLAR



| Mil | Boyutlar |                |     | Vida |        |                | Numara   | Ağırlık |
|-----|----------|----------------|-----|------|--------|----------------|----------|---------|
|     | d<br>mm  | d <sub>1</sub> | l   | a    | b      | d <sub>2</sub> |          |         |
| 150 | 160      | 150            | 140 | 6    | 24     | M170x3         | AH2332GH | 4.17    |
|     | 160      | 150            | 160 | 6    | 24     | M180x3         | AH3332   | 5.51    |
| 160 | 170      | 160            | 48  | 5    | 13     | M180x3         | AH3834   | 1.36    |
|     | 170      | 160            | 69  | 5    | 16     | M180x3         | AH234    | 1.98    |
|     | 170      | 160            | 93  | 5    | 17     | M190x3         | AH334    | 3.07    |
|     | 170      | 160            | 93  | 5    | 17     | M180x3         | AH334G   | 2.7     |
|     | 170      | 160            | 85  | 5    | 17     | M180x3         | AH3034   | 2.43    |
|     | 170      | 160            | 85  | 5    | 17     | M180x3         | AH3034H  | 2.39    |
|     | 170      | 160            | 106 | 11   | 16     | M180x3         | AH24034  | 2.8     |
|     | 170      | 160            | 104 | 5    | 16     | M190x3         | AH3134   | 3.4     |
|     | 170      | 160            | 104 | 5    | 16     | M190x3         | AH3134H  | 5.29    |
|     | 170      | 160            | 125 | 11   | 16     | M180x3         | AH24134  | 3.21    |
|     | 170      | 160            | 134 | 6    | 24     | M190x3         | AH3234   | 4.77    |
|     | 170      | 160            | 134 | 6    | 24     | M190x3         | AH3234H  | 4.7     |
| 170 | 160      | 134            | 6   | 24   | M180x3 | AH3234G        | 4.25     |         |
| 170 | 160      | 146            | 6   | 24   | M190x3 | AH2334         | 5.27     |         |
| 170 | 160      | 146            | 6   | 24   | M190x3 | AH2334H        | 5.21     |         |
| 170 | 160      | 146            | 6   | 24   | M180x3 | AH2334G        | 4.76     |         |
| 170 | 160      | 146            | 6   | 24   | M180x3 | AH2334GH       | 4.69     |         |
| 170 | 160      | 164            | 6   | 24   | M190x3 | AH3334         | 6.05     |         |
| 170 | 180      | 170            | 48  | 5    | 13     | M190x3         | AH3836   | 1.44    |
|     | 180      | 170            | 66  | 5    | 13     | M190x3         | AH3936   | 1.91    |
|     | 180      | 170            | 69  | 5    | 16     | M190x3         | AH236    | 2.14    |
|     | 180      | 170            | 92  | 6    | 17     | M190x3         | AH3036   | 2.84    |
|     | 180      | 170            | 92  | 6    | 17     | M190x3         | AH3036H  | 2.77    |
|     | 180      | 170            | 116 | 11   | 16     | M190x3         | AH24036  | 3.18    |
|     | 180      | 170            | 105 | 5    | 17     | M200x3         | AH2236   | 3.7     |
|     | 180      | 170            | 105 | 5    | 17     | M200x3         | AH2236H  | 3.62    |
|     | 180      | 170            | 105 | 5    | 17     | M190x3         | AH2236G  | 3.32    |
|     | 180      | 170            | 116 | 6    | 19     | M200x3         | AH3136A  | 4.22    |
|     | 180      | 170            | 116 | 6    | 19     | M190x3         | AH3136AH | 3.7     |
|     | 180      | 170            | 134 | 11   | 16     | M190x3         | AH24136  | 3.72    |
| 180 | 170      | 140            | 6   | 25   | M200x3 | AH3236         | 5.33     |         |
| 180 | 170      | 140            | 6   | 25   | M200x3 | AH3236H        | 5.25     |         |
| 180 | 170      | 140            | 6   | 25   | M190x3 | AH3236G        | 4.77     |         |
| 180 | 170      | 140            | 6   | 25   | M190x3 | AH3236GH       | 4.69     |         |
| 180 | 170      | 154            | 6   | 26   | M200x3 | AH2336         | 5.99     |         |
| 180 | 170      | 154            | 6   | 26   | M200x3 | AH2336H        | 5.91     |         |
| 180 | 170      | 154            | 6   | 26   | M190x3 | AH2336G        | 5.4      |         |
| 180 | 170      | 154            | 6   | 26   | M190x3 | AH2336GH       | 5.32     |         |
| 180 | 170      | 176            | 6   | 26   | M200x3 | AH3336         | 7.04     |         |
| 180 | 190      | 180            | 51  | 5    | 13     | M200x3         | AH3838   | 1.6     |
|     | 190      | 180            | 66  | 5    | 13     | M200x3         | AH3938   | 2.02    |
|     | 190      | 180            | 73  | 5    | 17     | Tr205x4        | AH238    | 2.52    |
|     | 190      | 180            | 73  | 5    | 17     | M200x3         | AH238G   | 2.3     |
|     | 190      | 180            | 96  | 6    | 18     | Tr205x4        | AH3038   | 3.36    |
|     | 190      | 180            | 96  | 6    | 18     | Tr205x4        | AH3038H  | 3.28    |
|     | 190      | 180            | 96  | 6    | 18     | M200x3         | AH3038G  | 3.16    |
|     | 190      | 180            | 96  | 6    | 18     | M200x3         | AH3038GH | 3.08    |

ÇAKMA MANŞONLAR



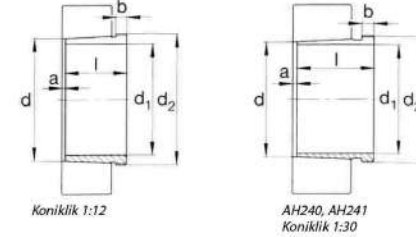
| Mil | Boyutlar |                |   | Vida |   |                | Numara | Ağırlık |                |   |
|-----|----------|----------------|---|------|---|----------------|--------|---------|----------------|---|
|     | d        | d <sub>1</sub> | l | a    | b | d <sub>2</sub> |        |         | R <sub>0</sub> | e |

|     |     |     |     |    |    |         |    |     |   |          |      |
|-----|-----|-----|-----|----|----|---------|----|-----|---|----------|------|
| 180 | 190 | 180 | 118 | 13 | 18 | M200x3  |    |     |   | AH24038  | 3.46 |
|     | 190 | 180 | 112 | 5  | 18 | Tr210x4 |    |     |   | AH2238   | 4.21 |
|     | 190 | 180 | 112 | 5  | 18 | Tr210x4 | M6 | 4.5 | 7 | AH2238H  | 4.13 |
|     | 190 | 180 | 112 | 5  | 18 | M200x3  |    |     |   | AH2238G  | 3.8  |
|     | 190 | 180 | 112 | 5  | 18 | M200x3  | M6 | 4.5 | 7 | AH2238GH | 3.72 |
|     | 190 | 180 | 125 | 6  | 20 | Tr210x4 |    |     |   | AH3138   | 4.84 |
|     | 190 | 180 | 125 | 6  | 20 | Tr210x4 | M6 | 4.5 | 7 | AH3138H  | 4.75 |
|     | 190 | 180 | 125 | 6  | 20 | M200x3  |    |     |   | AH3138G  | 4.38 |
|     | 190 | 180 | 146 | 13 | 18 | M200x3  |    |     |   | AH24138  | 4.37 |
|     | 190 | 180 | 145 | 7  | 25 | Tr210x4 |    |     |   | AH3238   | 5.88 |
|     | 190 | 180 | 145 | 7  | 25 | Tr210x4 | M6 | 4.5 | 7 | AH3238H  | 5.8  |
|     | 190 | 180 | 145 | 7  | 25 | M200x3  |    |     |   | AH3238G  | 5.3  |
|     | 190 | 180 | 145 | 7  | 25 | M200x3  | M6 | 4.5 | 7 | AH3238GH | 5.22 |
|     | 190 | 180 | 160 | 7  | 26 | Tr210x4 |    |     |   | AH2338   | 6.64 |
|     | 190 | 180 | 160 | 7  | 26 | Tr210x4 | M6 | 4.5 | 7 | AH2338H  | 6.56 |
|     | 190 | 180 | 160 | 7  | 26 | M200x3  |    |     |   | AH2338G  | 6.04 |
|     | 190 | 180 | 160 | 7  | 26 | M200x3  | M6 | 4.5 | 7 | AH2338GH | 5.95 |
|     | 190 | 180 | 181 | 7  | 26 | Tr210x4 |    |     |   | AH3338   | 7.71 |

|     |     |     |     |    |         |         |    |     |        |          |      |
|-----|-----|-----|-----|----|---------|---------|----|-----|--------|----------|------|
| 190 | 200 | 190 | 54  | 6  | 16      | Tr210x4 |    |     |        | AH3840   | 1.84 |
|     | 200 | 190 | 77  | 6  | 16      | Tr210x4 |    |     |        | AH3940   | 2.62 |
|     | 200 | 190 | 77  | 5  | 18      | Tr215x4 |    |     |        | AH240    | 2.87 |
|     | 200 | 190 | 77  | 5  | 18      | Tr210x4 |    |     |        | AH240G   | 2.56 |
|     | 200 | 190 | 102 | 6  | 19      | Tr215x4 |    |     |        | AH3040   | 3.8  |
|     | 200 | 190 | 102 | 6  | 19      | Tr215x4 | M6 | 4.2 | 7      | AH3040H  | 3.72 |
|     | 200 | 190 | 102 | 6  | 19      | Tr210x4 |    |     |        | AH3040G  | 3.57 |
|     | 200 | 190 | 102 | 6  | 19      | Tr210x4 | M6 | 4.2 | 7      | AH3040GH | 3.49 |
|     | 200 | 190 | 127 | 13 | 18      | Tr210x4 |    |     |        | AH24040  | 3.93 |
|     | 200 | 190 | 127 | 13 | 18      | Tr210x4 | M6 | 8   | 7      | AH24040H | 3.93 |
|     | 200 | 190 | 118 | 5  | 19      | Tr220x4 |    |     |        | AH2240   | 4.68 |
|     | 200 | 190 | 134 | 6  | 21      | Tr220x4 |    |     |        | AH3140   | 5.55 |
|     | 200 | 190 | 134 | 6  | 21      | Tr220x4 | M6 | 4.5 | 7      | AH3140H  | 5.46 |
|     | 200 | 190 | 158 | 13 | 18      | Tr210x4 |    |     |        | AH24140  | 5.1  |
|     | 200 | 190 | 153 | 7  | 24      | Tr220x4 |    |     |        | AH3240   | 6.59 |
|     | 200 | 190 | 153 | 7  | 24      | Tr220x4 | M6 | 4.5 | 7      | AH3240H  | 6.5  |
|     | 200 | 190 | 170 | 7  | 30      | Tr220x4 |    |     |        | AH2340   | 7.59 |
|     | 200 | 190 | 170 | 7  | 30      | Tr220x4 | M6 | 4.5 | 7      | AH2340H  | 7.5  |
| 200 | 190 | 195 | 7   | 30 | Tr220x4 |         |    |     | AH3340 | 8.95     |      |

|     |     |     |     |    |    |         |                               |     |    |          |      |
|-----|-----|-----|-----|----|----|---------|-------------------------------|-----|----|----------|------|
| 200 | 220 | 200 | 77  | 6  | 16 | Tr230x4 | M8                            | 7.5 | 12 | AH3944H  | 4.65 |
|     | 220 | 200 | 85  | 6  | 18 | Tr230x4 |                               |     |    | AH244G   | 5.29 |
|     | 220 | 200 | 111 | 6  | 20 | Tr235x4 | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12 | AH3044H  | 7.29 |
|     | 220 | 200 | 111 | 6  | 20 | Tr230x4 |                               |     |    | AH3044G  | 7.13 |
|     | 220 | 200 | 111 | 6  | 20 | Tr230x4 | G <sup>1</sup> / <sub>8</sub> | 6.5 | 12 | AH3044GH | 7.02 |
|     | 220 | 200 | 138 | 14 | 20 | Tr230x4 | M6                            | 8   | 7  | AH24044H | 8.25 |
|     | 220 | 200 | 130 | 6  | 20 | Tr240x4 | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12 | AH2244H  | 9.1  |
|     | 220 | 200 | 145 | 6  | 23 | Tr240x4 | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12 | AH3144H  | 10.4 |
|     | 220 | 200 | 170 | 14 | 20 | Tr230x4 | M6                            | 8   | 7  | AH24144H | 10.2 |
|     | 220 | 200 | 181 | 8  | 30 | Tr240x4 | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12 | AH2344H  | 13.5 |

ÇAKMA MANŞONLAR



| Mil | Boyutlar |                |   | Vida |   |                | Numara | Ağırlık |                |   |
|-----|----------|----------------|---|------|---|----------------|--------|---------|----------------|---|
|     | d        | d <sub>1</sub> | l | a    | b | d <sub>2</sub> |        |         | R <sub>0</sub> | e |

|     |     |     |     |    |    |         |                               |     |    |          |      |
|-----|-----|-----|-----|----|----|---------|-------------------------------|-----|----|----------|------|
| 220 | 240 | 220 | 77  | 6  | 16 | Tr250x4 | M8                            | 7.5 | 12 | AH3948H  | 5.29 |
|     | 240 | 220 | 116 | 7  | 21 | Tr260x4 | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12 | AH3048H  | 8.75 |
|     | 240 | 220 | 138 | 15 | 20 | Tr250x4 | M6                            | 8   | 7  | AH24048H | 8.86 |
|     | 240 | 220 | 144 | 6  | 21 | Tr260x4 | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12 | AH2248H  | 11.1 |
|     | 240 | 220 | 154 | 7  | 25 | Tr260x4 | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12 | AH3148H  | 12   |
|     | 240 | 220 | 180 | 15 | 20 | Tr260x4 | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12 | AH24148H | 12.5 |
|     | 240 | 220 | 189 | 8  | 30 | Tr260x4 | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12 | AH2348H  | 15.4 |

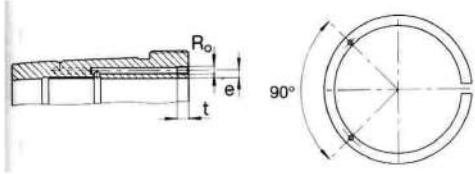
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|-----|-----|-----|-----|----|---------|-------------------------------|-------------------------------|-----|----------|----------|------|
| 240 | 260 | 240 | 94  | 6  | 18      | Tr275x4                       | M8                            | 7.5 | 12       | AH3952H  | 7.16 |
|     | 260 | 240 | 94  | 6  | 18      | Tr280x4                       |                               |     |          | AH3952G  | 7.58 |
|     | 260 | 240 | 128 | 7  | 23      | Tr280x4                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH3052H  | 10.7 |
|     | 260 | 240 | 162 | 16 | 20      | Tr270x4                       | M6                            | 8   | 7        | AH24052H | 11.8 |
|     | 260 | 240 | 162 | 16 | 20      | Tr280x4                       |                               |     |          | AH24052G | 12.3 |
|     | 260 | 240 | 155 | 6  | 23      | Tr290x4                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH2252H  | 14   |
|     | 260 | 240 | 155 | 6  | 23      | Tr280x4                       |                               |     |          | AH2252G  | 13.3 |
|     | 260 | 240 | 172 | 7  | 26      | Tr290x4                       | G <sup>1</sup> / <sub>8</sub> | 7   | 12       | AH3152H  | 15.7 |
|     | 260 | 240 | 172 | 7  | 26      | Tr280x4                       |                               |     |          | AH3152G  | 15.1 |
|     | 260 | 240 | 172 | 7  | 26      | Tr280x4                       | G <sup>1</sup> / <sub>8</sub> | 7   | 12       | AH3152GH | 14.9 |
|     | 260 | 240 | 202 | 16 | 22      | Tr280x4                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH24152H | 15.4 |
|     | 260 | 240 | 205 | 8  | 30      | Tr290x4                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH2352H  | 19.5 |
| 260 | 240 | 205 | 8   | 30 | Tr280x4 |                               |                               |     | AH2352G  | 18.7     |      |
| 260 | 240 | 205 | 8   | 30 | Tr280x4 | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12  | AH2352GH | 18.5     |      |

|     |     |     |     |    |         |                               |                               |     |          |           |      |
|-----|-----|-----|-----|----|---------|-------------------------------|-------------------------------|-----|----------|-----------|------|
| 260 | 280 | 260 | 94  | 6  | 18      | Tr300x4                       |                               |     |          | AH3956G   | 8.19 |
|     | 280 | 260 | 131 | 8  | 24      | Tr300x4                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH3056H   | 11.7 |
|     | 280 | 260 | 162 | 17 | 22      | Tr290x4                       | M6                            | 8   | 7        | AH24056H  | 12.4 |
|     | 280 | 260 | 162 | 17 | 22      | Tr300x4                       |                               |     |          | AH24056G  | 13.3 |
|     | 280 | 260 | 162 | 17 | 22      | Tr300x4                       | M6                            | 8   | 7        | AH24056GH | 13.2 |
|     | 280 | 260 | 155 | 8  | 24      | Tr310x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH2256H   | 15.2 |
|     | 280 | 260 | 155 | 8  | 23      | Tr300x4                       |                               |     |          | AH2256G   | 14.4 |
|     | 280 | 260 | 175 | 8  | 28      | Tr310x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH3156H   | 17.4 |
|     | 280 | 260 | 175 | 8  | 28      | Tr300x4                       |                               |     |          | AH3156G   | 16.7 |
|     | 280 | 260 | 175 | 8  | 28      | Tr300x4                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH3156GH  | 16.5 |
|     | 280 | 260 | 202 | 17 | 22      | Tr300x4                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH24156H  | 16.3 |
|     | 280 | 260 | 212 | 8  | 30      | Tr310x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH2356H   | 21.8 |
| 280 | 260 | 212 | 8   | 30 | Tr300x4 |                               |                               |     | AH2356G  | 21        |      |
| 280 | 260 | 212 | 8   | 30 | Tr300x4 | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12  | AH2356GH | 20.8      |      |

|     |     |     |     |    |         |                               |                               |     |          |          |      |
|-----|-----|-----|-----|----|---------|-------------------------------|-------------------------------|-----|----------|----------|------|
| 280 | 300 | 280 | 112 | 7  | 21      | Tr315x5                       | M8                            | 7.5 | 12       | AH3960H  | 10.1 |
|     | 300 | 280 | 112 | 7  | 21      | Tr320x5                       |                               |     |          | AH3960G  | 10.7 |
|     | 300 | 280 | 112 | 7  | 21      | Tr320x5                       | M8                            | 7.5 | 12       | AH3960GH | 10.5 |
|     | 300 | 280 | 145 | 8  | 26      | Tr320x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH3060H  | 14.4 |
|     | 300 | 280 | 184 | 18 | 24      | Tr310x5                       | M6                            | 8   | 7        | AH24060H | 15.3 |
|     | 300 | 280 | 184 | 18 | 24      | Tr320x5                       |                               |     |          | AH24060G | 16.4 |
|     | 300 | 280 | 170 | 8  | 26      | Tr330x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH2260H  | 18   |
|     | 300 | 280 | 170 | 8  | 26      | Tr320x5                       |                               |     |          | AH2260G  | 17.2 |
|     | 300 | 280 | 170 | 8  | 26      | Tr320x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH2260GH | 17   |
|     | 300 | 280 | 192 | 8  | 30      | Tr330x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH3160H  | 20.8 |
|     | 300 | 280 | 192 | 8  | 30      | Tr320x5                       |                               |     |          | AH3160G  | 19.9 |
|     | 300 | 280 | 192 | 8  | 30      | Tr320x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5 | 12       | AH3160GH | 19.7 |
| 300 | 280 | 224 | 18  | 24 | Tr320x5 | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12  | AH24160H | 20       |      |

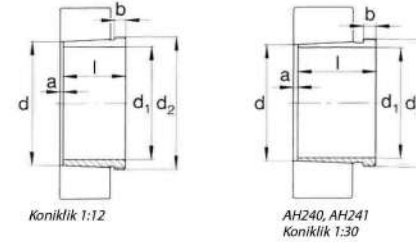


ÇAKMA MANŞONLAR



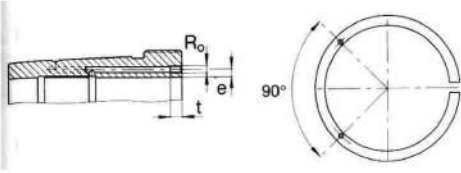
| Mil | Boyutlar |                |     | Vida |    |                | Numara                        | Ağırlık                       |                |          |          |                  |
|-----|----------|----------------|-----|------|----|----------------|-------------------------------|-------------------------------|----------------|----------|----------|------------------|
|     | d<br>mm  | d <sub>1</sub> | l   | a    | b  | d <sub>2</sub> |                               |                               | R <sub>0</sub> | e        | t        | Çakma<br>Manşonu |
| 280 | 300      | 280            | 228 | 8    | 34 | Tr330x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3260H  | 26       |                  |
|     | 300      | 280            | 228 | 8    | 34 | Tr320x5        |                               |                               |                | AH3260G  | 24.6     |                  |
| 300 | 320      | 300            | 112 | 7    | 21 | Tr340x5        |                               |                               |                | AH3964G  | 11.4     |                  |
|     | 320      | 300            | 149 | 8    | 27 | Tr345x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3064H  | 16.1     |                  |
|     | 320      | 300            | 149 | 8    | 27 | Tr340x5        |                               |                               |                | AH3064G  | 15.8     |                  |
|     | 320      | 300            | 149 | 8    | 27 | Tr340x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3064GH | 15.6     |                  |
|     | 320      | 300            | 184 | 18   | 24 | Tr330x5        | M6                            | 8                             | 7              | AH24064H | 16.6     |                  |
|     | 320      | 300            | 184 | 18   | 24 | Tr340x5        |                               |                               |                | AH24064G | 17.5     |                  |
|     | 320      | 300            | 180 | 10   | 27 | Tr350x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH2264H  | 20.6     |                  |
|     | 320      | 300            | 180 | 10   | 27 | Tr340x5        |                               |                               |                | AH2264G  | 19.8     |                  |
|     | 320      | 300            | 180 | 10   | 27 | Tr340x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH2264GH | 19.6     |                  |
|     | 320      | 300            | 209 | 8    | 31 | Tr350x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3164H  | 24.6     |                  |
|     | 320      | 300            | 209 | 8    | 31 | Tr340x5        |                               |                               |                | AH3164G  | 23.6     |                  |
|     | 320      | 300            | 209 | 8    | 31 | Tr340x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3164GH | 23.4     |                  |
|     | 320      | 300            | 242 | 18   | 24 | Tr340x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24164H | 21.4     |                  |
|     | 320      | 300            | 246 | 8    | 36 | Tr350x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3264H  | 30.1     |                  |
|     | 320      | 300            | 246 | 8    | 36 | Tr340x5        |                               |                               |                | AH3264G  | 28.9     |                  |
|     | 320      | 300            | 246 | 8    | 36 | Tr340x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3264GH | 28.7     |                  |
|     | 320      | 340            | 320 | 112  | 7  | 21             | Tr355x5                       | M8                            | 7.5            | 12       | AH3968H  | 11.4             |
|     |          | 340            | 320 | 112  | 7  | 21             | Tr360x5                       |                               |                |          | AH3968G  | 12.1             |
| 340 |          | 320            | 162 | 9    | 28 | Tr365x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3068H  | 18.9     |                  |
| 340 |          | 320            | 162 | 9    | 28 | Tr360x5        |                               |                               |                | AH3068G  | 18.6     |                  |
| 340 |          | 320            | 162 | 9    | 28 | Tr360x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3068GH | 18.3     |                  |
| 340 |          | 320            | 206 | 19   | 26 | Tr360x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24068H | 21.7     |                  |
| 340 |          | 320            | 225 | 9    | 33 | Tr370x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3168H  | 28.7     |                  |
| 340 |          | 320            | 225 | 9    | 33 | Tr360x5        |                               |                               |                | AH3168G  | 27.6     |                  |
| 340 |          | 320            | 225 | 9    | 33 | Tr360x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24168H | 27.1     |                  |
| 340 |          | 320            | 269 | 19   | 26 | Tr360x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3268H  | 35.2     |                  |
| 340 |          | 320            | 264 | 9    | 38 | Tr370x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3268G  | 33.7     |                  |
| 340 |          | 360            | 340 | 112  | 7  | 21             | Tr375x5                       | M8                            | 7.5            | 12       | AH3972H  | 12.1             |
|     | 360      | 340            | 112 | 7    | 21 | Tr380x5        |                               |                               |                | AH3972G  | 12.8     |                  |
|     | 360      | 340            | 112 | 7    | 21 | Tr380x5        | M8                            | 7.5                           | 12             | AH3972GH | 12.6     |                  |
|     | 360      | 340            | 167 | 9    | 30 | Tr385x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3072H  | 20.8     |                  |
|     | 360      | 340            | 167 | 9    | 30 | Tr380x5        |                               |                               |                | AH3072G  | 20.4     |                  |
|     | 360      | 340            | 167 | 9    | 30 | Tr380x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3072GH | 20.1     |                  |
|     | 360      | 340            | 206 | 20   | 26 | Tr380x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24072H | 22.7     |                  |
|     | 360      | 340            | 229 | 9    | 35 | Tr400x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3172H  | 32.7     |                  |
|     | 360      | 340            | 229 | 9    | 35 | Tr380x5        |                               |                               |                | AH3172G  | 29.9     |                  |
|     | 360      | 340            | 229 | 9    | 35 | Tr380x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3172GH | 29.5     |                  |
|     | 360      | 340            | 269 | 20   | 26 | Tr380x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24172H | 29.6     |                  |
|     | 360      | 340            | 274 | 9    | 40 | Tr400x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3272H  | 40.8     |                  |
|     | 360      | 340            | 274 | 9    | 40 | Tr380x5        |                               |                               |                | AH3272G  | 37.5     |                  |
|     | 360      | 340            | 274 | 9    | 40 | Tr380x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3272GH | 37.1     |                  |
|     | 360      | 380            | 360 | 130  | 8  | 22             | Tr395x5                       | M8                            | 7.5            | 12       | AH3976H  | 15.2             |
|     |          | 380            | 360 | 130  | 8  | 22             | Tr400x5                       |                               |                |          | AH3976G  | 16               |
|     |          | 380            | 360 | 130  | 8  | 22             | Tr400x5                       | M8                            | 7.5            | 12       | AH3976GH | 15.7             |
|     |          | 380            | 360 | 170  | 10 | 31             | Tr410x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5            | 12       | AH3076H  | 23.2             |

ÇAKMA MANŞONLAR



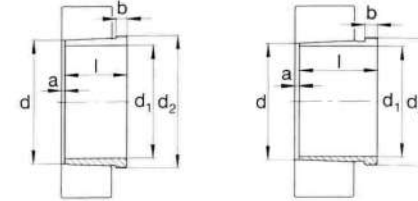
| Mil | Boyutlar |                |     | Vida |    |                | Numara                        | Ağırlık                       |                |           |          |                  |
|-----|----------|----------------|-----|------|----|----------------|-------------------------------|-------------------------------|----------------|-----------|----------|------------------|
|     | d<br>mm  | d <sub>1</sub> | l   | a    | b  | d <sub>2</sub> |                               |                               | R <sub>0</sub> | e         | t        | Çakma<br>Manşonu |
| 360 | 380      | 360            | 170 | 10   | 31 | Tr400x5        |                               |                               |                | AH3076G   | 22.1     |                  |
|     | 380      | 360            | 208 | 20   | 28 | Tr400x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24076H  | 23.7     |                  |
|     | 380      | 360            | 232 | 10   | 36 | Tr420x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3176H   | 35.7     |                  |
|     | 380      | 360            | 232 | 10   | 36 | Tr400x5        |                               |                               |                | AH3176G   | 32.2     |                  |
|     | 380      | 360            | 271 | 20   | 28 | Tr400x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24176H  | 31.3     |                  |
|     | 380      | 360            | 284 | 10   | 42 | Tr420x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3276H   | 45.6     |                  |
|     | 380      | 360            | 284 | 10   | 42 | Tr400x5        |                               |                               |                | AH3276G   | 41.5     |                  |
| 380 | 400      | 380            | 130 | 8    | 22 | Tr415x5        | M8                            | 7.5                           | 12             | AH3980H   | 16       |                  |
|     | 400      | 380            | 130 | 8    | 22 | Tr420x5        |                               |                               |                | AH3980G   | 16.9     |                  |
|     | 400      | 380            | 183 | 10   | 33 | Tr430x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3080H   | 27.3     |                  |
|     | 400      | 380            | 183 | 10   | 33 | Tr420x5        |                               |                               |                | AH3080G   | 25.4     |                  |
|     | 400      | 380            | 228 | 20   | 28 | Tr420x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24080H  | 27.1     |                  |
|     | 400      | 380            | 240 | 10   | 38 | Tr440x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3180H   | 39.5     |                  |
|     | 400      | 380            | 240 | 10   | 38 | Tr420x5        |                               |                               |                | AH3180G   | 35.3     |                  |
|     | 400      | 380            | 278 | 20   | 28 | Tr420x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24180H  | 34.5     |                  |
|     | 400      | 380            | 302 | 10   | 44 | Tr440x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3280H   | 51.4     |                  |
|     |          | 400            | 380 | 302  | 10 | 44             | Tr420x5                       |                               |                |           | AH3280G  | 47.4             |
| 400 | 420      | 400            | 130 | 8    | 22 | Tr435x5        | M8                            | 7.5                           | 12             | AH3984H   | 17       |                  |
|     | 420      | 400            | 130 | 8    | 22 | Tr440x5        |                               |                               |                | AH3984G   | 17.8     |                  |
|     | 420      | 400            | 186 | 10   | 34 | Tr450x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3084H   | 28.6     |                  |
|     | 420      | 400            | 186 | 10   | 34 | Tr440x5        |                               |                               |                | AH3084G   | 27.2     |                  |
|     | 420      | 400            | 186 | 10   | 34 | Tr440x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3084GH  | 26.9     |                  |
|     | 420      | 400            | 230 | 22   | 30 | Tr440x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24084H  | 29       |                  |
|     | 420      | 400            | 266 | 10   | 40 | Tr460x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3184H   | 46.1     |                  |
|     | 420      | 400            | 266 | 10   | 40 | Tr440x5        |                               |                               |                | AH3184G   | 42.3     |                  |
|     | 420      | 400            | 266 | 10   | 40 | Tr440x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3184GH  | 41.9     |                  |
|     | 420      | 400            | 310 | 22   | 30 | Tr440x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24184H  | 40.3     |                  |
|     | 420      | 400            | 321 | 10   | 46 | Tr460x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3284H   | 58.4     |                  |
|     | 420      | 400            | 321 | 10   | 46 | Tr440x5        |                               |                               |                | AH3284G   | 54       |                  |
|     |          | 420            | 400 | 321  | 10 | 46             | Tr440x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5            | 12        | AH3284GH | 53.5             |
|     | 420      | 440            | 420 | 194  | 11 | 35             | Tr460x5                       |                               |                |           | AHX3088G | 30.1             |
| 440 |          | 420            | 194 | 11   | 35 | Tr460x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AHX3088GH | 29.6     |                  |
| 440 |          | 420            | 242 | 22   | 30 | Tr460x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24088H  | 31.9     |                  |
| 440 |          | 420            | 270 | 11   | 42 | Tr460x5        |                               |                               |                | AHX3188G  | 45.3     |                  |
| 440 |          | 420            | 270 | 11   | 42 | Tr460x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AHX3188GH | 44.7     |                  |
| 440 |          | 420            | 310 | 22   | 30 | Tr460x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24188H  | 42.3     |                  |
| 440 |          | 420            | 330 | 11   | 48 | Tr460x5        |                               |                               |                | AHX3288G  | 58.8     |                  |
| 440 |          | 460            | 440 | 145  | 8  | 25             | Tr480x5                       | G <sup>1</sup> / <sub>8</sub> | 8.5            | 12        | AH3992H  | 22.5             |
|     | 460      | 440            | 202 | 11   | 37 | Tr480x5        |                               |                               |                | AHX3092G  | 33.1     |                  |
|     | 460      | 440            | 202 | 11   | 37 | Tr480x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AHX3092GH | 32.6     |                  |
|     | 460      | 440            | 250 | 23   | 32 | Tr480x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24092H  | 34.7     |                  |
|     | 460      | 440            | 285 | 11   | 43 | Tr480x5        |                               |                               |                | AHX3192G  | 50.8     |                  |
|     | 460      | 440            | 285 | 11   | 43 | Tr480x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AHX3192GH | 50.2     |                  |
|     | 460      | 440            | 332 | 23   | 32 | Tr480x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24192H  | 47.4     |                  |
|     | 460      | 440            | 349 | 11   | 50 | Tr480x5        |                               |                               |                | AHX3292G  | 66.2     |                  |

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| Mil | Boyutlar |                |     | Vida |    |                | Numara                        | Ağırlık                       |                |             |            |               |
|-----|----------|----------------|-----|------|----|----------------|-------------------------------|-------------------------------|----------------|-------------|------------|---------------|
|     | d        | d <sub>1</sub> | l   | a    | b  | d <sub>2</sub> |                               |                               | R <sub>0</sub> | e           | t          | Çakma Manşonu |
| 460 | 480      | 460            | 158 | 9    | 28 | Tr500x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH3996H     | 25.1       |               |
|     | 480      | 460            | 205 | 12   | 38 | Tr500x5        |                               |                               |                | AHX3096G    | 35.2       |               |
|     | 480      | 460            | 250 | 23   | 32 | Tr500x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24096H    | 36.6       |               |
|     | 480      | 460            | 295 | 12   | 45 | Tr500x5        |                               |                               |                | AHX3196G    | 55.5       |               |
|     | 480      | 460            | 295 | 12   | 45 | Tr500x5        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH24196H    | 53.1       |               |
|     | 480      | 460            | 340 | 23   | 32 | Tr500x5        |                               |                               |                | AH24196G    | 53.1       |               |
|     | 480      | 460            | 364 | 12   | 52 | Tr500x5        |                               |                               |                | AHX3296G    | 73.3       |               |
|     | 480      | 500            | 480 | 162  | 10 | 32             | Tr520x6                       | G <sup>1</sup> / <sub>8</sub> | 8.5            | 12          | AH39/500H  | 28            |
|     |          | 500            | 480 | 162  | 10 | 32             | Tr530x6                       |                               |                |             | AH39/500G  | 29.6          |
|     |          | 500            | 480 | 209  | 12 | 40             | Tr530x6                       |                               |                |             | AHX30/500G | 40            |
| 500 |          | 480            | 253 | 23   | 35 | Tr520x6        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH240/500H  | 39         |               |
| 500 |          | 480            | 253 | 23   | 35 | Tr530x6        |                               |                               |                | AH240/500G  | 41.8       |               |
| 500 |          | 480            | 253 | 23   | 35 | Tr530x6        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH240/500GH | 41.2       |               |
| 500 |          | 480            | 313 | 12   | 47 | Tr530x6        |                               |                               |                | AHX31/500G  | 65.3       |               |
| 500 |          | 480            | 362 | 25   | 37 | Tr520x6        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH241/500H  | 59         |               |
| 500 |          | 480            | 360 | 23   | 35 | Tr530x6        |                               |                               |                | AH241/500G  | 61.2       |               |
| 500 |          | 480            | 360 | 23   | 35 | Tr530x6        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AH241/500GH | 60.5       |               |
| 500 |          | 480            | 393 | 12   | 54 | Tr530x6        |                               |                               |                | AHX32/500G  | 88.1       |               |
| 500 |          | 480            | 393 | 12   | 54 | Tr530x6        | G <sup>1</sup> / <sub>8</sub> | 8.5                           | 12             | AHX32/500GH | 87.4       |               |
| 500 |          | 530            | 500 | 175  | 10 | 37             | Tr550x6                       | G <sup>1</sup> / <sub>4</sub> | 10             | 15          | AH39/530H  | 43.4          |
|     |          | 530            | 500 | 175  | 10 | 37             | Tr560x6                       | G <sup>1</sup> / <sub>4</sub> | 10             | 15          | AH39/530G  | 45.3          |
|     |          | 530            | 500 | 230  | 12 | 45             | Tr560x6                       | G <sup>1</sup> / <sub>4</sub> | 15             | 15          | AH30/530AH | 61.9          |
|     | 530      | 500            | 290 | 25   | 40 | Tr550x6        | G <sup>1</sup> / <sub>4</sub> | 8.5                           | 15             | AH240/530H  | 66.9       |               |
|     | 530      | 500            | 285 | 24   | 35 | Tr560x6        |                               |                               |                | AH240/530G  | 67.9       |               |
|     | 530      | 500            | 375 | 25   | 40 | Tr550x6        | G <sup>1</sup> / <sub>4</sub> | 10                            | 15             | AH241/530H  | 88.4       |               |
|     | 530      | 500            | 370 | 25   | 35 | Tr560x6        |                               |                               |                | AH241/530G  | 89.9       |               |
|     | 530      | 500            | 412 | 12   | 57 | Tr580x6        |                               |                               |                | AH32/530AG  | 125        |               |
|     | 530      | 560            | 530 | 180  | 10 | 37             | Tr580x6                       | G <sup>1</sup> / <sub>4</sub> | 12             | 15          | AH39/560H  | 46.2          |
|     |          | 560            | 530 | 180  | 10 | 37             | Tr600x6                       |                               |                |             | AH39/560G  | 52.1          |
| 560 |          | 530            | 180 | 10   | 37 | Tr600x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH39/560GH  | 51.3       |               |
| 560 |          | 530            | 240 | 12   | 45 | Tr590x6        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH30/560AH  | 68.6       |               |
| 560 |          | 530            | 240 | 12   | 45 | Tr600x6        |                               |                               |                | AH30/560AG  | 71.8       |               |
| 560 |          | 530            | 298 | 25   | 40 | Tr580x6        | G <sup>1</sup> / <sub>4</sub> | 8.5                           | 15             | AH240/560H  | 72.3       |               |
| 560 |          | 530            | 296 | 24   | 38 | Tr600x6        |                               |                               |                | AH240/560G  | 77.8       |               |
| 560 |          | 530            | 296 | 24   | 38 | Tr600x6        | G <sup>1</sup> / <sub>4</sub> | 8.5                           | 15             | AH240/560GH | 76.9       |               |
| 560 |          | 530            | 335 | 12   | 55 | Tr600x6        |                               |                               |                | AH31/560AG  | 106        |               |
| 560 |          | 530            | 400 | 28   | 45 | Tr580x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH241/560H  | 101        |               |
| 560 |          | 530            | 393 | 24   | 38 | Tr600x6        |                               |                               |                | AH241/560G  | 105        |               |
| 560 |          | 530            | 422 | 12   | 57 | Tr610x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH32/560AH  | 144        |               |
| 560 |          | 530            | 422 | 12   | 57 | Tr600x6        |                               |                               |                | AH32/560AG  | 140        |               |
| 570 |          | 600            | 570 | 192  | 10 | 38             | Tr625x6                       | G <sup>1</sup> / <sub>4</sub> | 12             | 15          | AH39/600H  | 54.6          |
|     |          | 600            | 570 | 192  | 10 | 38             | Tr630x6                       |                               |                |             | AH39/600G  | 57            |
|     | 600      | 570            | 192 | 10   | 38 | Tr630x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH39/600GH  | 56         |               |
|     | 600      | 570            | 245 | 14   | 45 | Tr630x6        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH30/600AH  | 74.5       |               |
|     | 600      | 570            | 317 | 30   | 45 | Tr625x6        | G <sup>1</sup> / <sub>4</sub> | 8.5                           | 15             | AH240/600H  | 86         |               |
|     | 600      | 570            | 310 | 26   | 38 | Tr630x6        |                               |                               |                | AH240/600G  | 84.8       |               |

## ÇAKMA MANŞONLAR



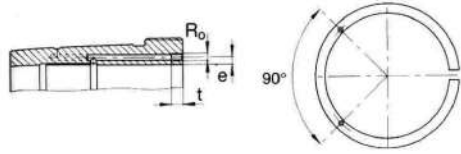
Koniklik 1:12

AH240, AH241  
Koniklik 1:30

| Mil | Boyutlar |                |     | Vida |    |                | Numara                        | Ağırlık                       |                |             |            |               |
|-----|----------|----------------|-----|------|----|----------------|-------------------------------|-------------------------------|----------------|-------------|------------|---------------|
|     | d        | d <sub>1</sub> | l   | a    | b  | d <sub>2</sub> |                               |                               | R <sub>0</sub> | e           | t          | Çakma Manşonu |
| 570 | 600      | 570            | 355 | 14   | 55 | Tr630x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH31/600AH  | 118        |               |
|     | 600      | 570            | 425 | 30   | 50 | Tr625x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH241/600H  | 118        |               |
|     | 600      | 570            | 413 | 26   | 38 | Tr630x6        |                               |                               |                | AH241/600G  | 116        |               |
|     | 600      | 570            | 413 | 26   | 38 | Tr630x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH241/600GH | 115        |               |
|     | 600      | 570            | 445 | 14   | 57 | Tr630x6        |                               |                               |                | AH32/600AG  | 157        |               |
|     | 600      | 630            | 600 | 210  | 12 | 40             | Tr655x6                       | G <sup>1</sup> / <sub>4</sub> | 12             | 15          | AH39/630H  | 62.8          |
| 630 |          | 600            | 210 | 12   | 40 | Tr655x6        |                               |                               |                | AH39/630G   | 69.4       |               |
| 630 |          | 600            | 258 | 14   | 46 | Tr670x6        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH30/630AH  | 87.8       |               |
| 630 |          | 600            | 335 | 30   | 45 | Tr655x6        | G <sup>1</sup> / <sub>4</sub> | 8.5                           | 15             | AH240/630H  | 95.5       |               |
| 630 |          | 600            | 330 | 26   | 40 | Tr670x6        |                               |                               |                | AH240/630G  | 98.7       |               |
| 630 |          | 600            | 375 | 14   | 60 | Tr670x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH31/630AH  | 138        |               |
| 630 |          | 600            | 450 | 30   | 50 | Tr655x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH241/630H  | 135        |               |
| 630 |          | 600            | 440 | 26   | 40 | Tr670x6        |                               |                               |                | AH241/630G  | 134        |               |
| 630 |          | 600            | 475 | 14   | 63 | Tr670x6        |                               |                               |                | AH32/630AG  | 185        |               |
| 630 |          | 670            | 630 | 216  | 12 | 41             | Tr695x6                       | G <sup>1</sup> / <sub>4</sub> | 12             | 15          | AH39/670H  | 85.5          |
|     |          | 670            | 630 | 216  | 12 | 41             | Tr710x7                       |                               |                |             | AH39/670G  | 92.9          |
|     |          | 670            | 630 | 280  | 14 | 50             | Tr710x7                       | G <sup>1</sup> / <sub>4</sub> | 15             | 15          | AH30/670AH | 123           |
|     | 670      | 630            | 358 | 30   | 50 | Tr695x6        | G <sup>1</sup> / <sub>4</sub> | 8.5                           | 15             | AH240/670H  | 136        |               |
|     | 670      | 630            | 348 | 26   | 40 | Tr710x7        |                               |                               |                | AH240/670G  | 138        |               |
|     | 670      | 630            | 467 | 30   | 55 | Tr695x6        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH241/670H  | 184        |               |
|     | 670      | 630            | 452 | 26   | 40 | Tr710x7        |                               |                               |                | AH241/670G  | 182        |               |
|     | 670      | 630            | 452 | 26   | 40 | Tr710x7        | G <sup>1</sup> / <sub>4</sub> | 12                            | 15             | AH241/670GH | 181        |               |
|     | 670      | 630            | 500 | 14   | 62 | Tr710x7        |                               |                               |                | AH32/670AG  | 249        |               |
|     | 670      | 710            | 670 | 228  | 12 | 43             | Tr740x7                       | G <sup>1</sup> / <sub>4</sub> | 15             | 15          | AH39/710H  | 99.5          |
| 710 |          | 670            | 228 | 12   | 43 | Tr750x7        |                               |                               |                | AH39/710G   | 105        |               |
| 710 |          | 670            | 228 | 12   | 43 | Tr750x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH39/710GH  | 103        |               |
| 710 |          | 670            | 286 | 16   | 50 | Tr750x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH30/710AH  | 21.3       |               |
| 710 |          | 670            | 365 | 33   | 50 | Tr740x7        | G <sup>1</sup> / <sub>4</sub> | 8.5                           | 15             | AH240/710H  | 150        |               |
| 710 |          | 670            | 360 | 26   | 45 | Tr750x7        |                               |                               |                | AH240/710G  | 153        |               |
| 710 |          | 670            | 493 | 33   | 55 | Tr740x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/710H  | 209        |               |
| 710 |          | 670            | 483 | 26   | 45 | Tr750x7        |                               |                               |                | AH241/710G  | 209        |               |
| 710 |          | 670            | 515 | 16   | 65 | Tr750x7        |                               |                               |                | AH32/710AG  | 275        |               |
| 680 |          | 710            | 680 | 163  | 12 | 43             | Tr740x7                       | G <sup>1</sup> / <sub>4</sub> | 12             | 15          | AH38/710H  | 58.6          |
| 710 | 750      | 710            | 234 | 12   | 44 | Tr780x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH39/750H   | 108        |               |
|     | 750      | 710            | 234 | 12   | 44 | Tr800x7        |                               |                               |                | AH39/750G   | 118        |               |
|     | 750      | 710            | 234 | 12   | 44 | Tr800x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH39/750GH  | 116        |               |
|     | 750      | 710            | 385 | 35   | 50 | Tr780x7        | G <sup>1</sup> / <sub>4</sub> | 8.5                           | 15             | AH240/750H  | 170        |               |
|     | 750      | 710            | 380 | 28   | 45 | Tr800x7        |                               |                               |                | AH240/750G  | 175        |               |
|     | 750      | 710            | 425 | 16   | 60 | Tr800x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH31/750AH  | 236        |               |
|     | 750      | 710            | 530 | 35   | 55 | Tr780x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/750H  | 241        |               |
|     | 750      | 710            | 520 | 28   | 45 | Tr800x7        |                               |                               |                | AH241/750G  | 244        |               |
|     | 750      | 710            | 520 | 28   | 45 | Tr800x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/750GH | 242        |               |

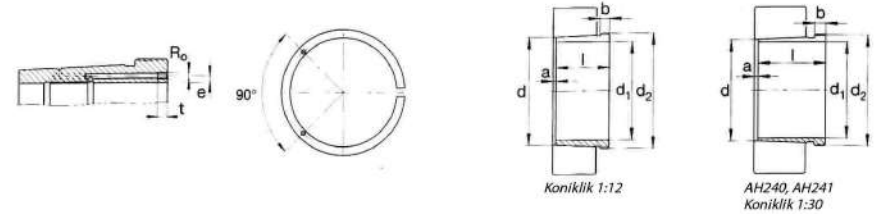


ÇAKMA MANŞONLAR



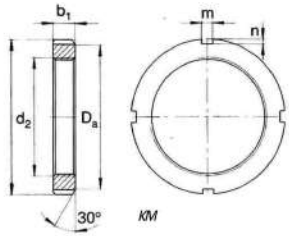
| Mil  | Boyutlar |                |      | Vida |    |                | Numara                        | Ağırlık                       |                |             |            |                  |
|------|----------|----------------|------|------|----|----------------|-------------------------------|-------------------------------|----------------|-------------|------------|------------------|
|      | d<br>mm  | d <sub>1</sub> | l    | a    | b  | d <sub>2</sub> |                               |                               | R <sub>0</sub> | e           | t          | Çakma<br>Manşonu |
| 750  | 800      | 750            | 245  | 12   | 45 | Tr830x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH39/800H   | 147        |                  |
|      | 800      | 750            | 245  | 12   | 45 | Tr830x7        |                               |                               |                | AH39/800G   | 155        |                  |
|      | 800      | 750            | 308  | 18   | 53 | Tr850x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH30/800AH  | 200        |                  |
|      | 800      | 750            | 395  | 40   | 50 | Tr830x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH240/800H  | 223        |                  |
|      | 800      | 750            | 395  | 28   | 50 | Tr850x7        |                               |                               |                | AH240/800G  | 233        |                  |
|      | 800      | 750            | 438  | 18   | 63 | Tr850x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH31/800AH  | 299        |                  |
|      | 800      | 750            | 530  | 40   | 55 | Tr830x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/800H  | 307        |                  |
|      | 800      | 750            | 525  | 28   | 50 | Tr850x7        |                               |                               |                | AH241/800G  | 313        |                  |
|      | 800      | 750            | 525  | 28   | 50 | Tr850x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/800GH | 311        |                  |
|      | 800      | 750            | 550  | 18   | 62 | Tr850x7        |                               |                               |                | AH32/800AG  | 396        |                  |
| 800  | 850      | 800            | 258  | 12   | 50 | Tr880x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH39/850H   | 164        |                  |
|      | 850      | 800            | 258  | 12   | 50 | Tr900x7        |                               |                               |                | AH39/850G   | 176        |                  |
|      | 850      | 800            | 258  | 12   | 50 | Tr900x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH39/850GH  | 174        |                  |
|      | 850      | 800            | 418  | 40   | 53 | Tr880x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH240/850H  | 252        |                  |
|      | 850      | 800            | 415  | 30   | 50 | Tr900x7        |                               |                               |                | AH240/850G  | 261        |                  |
|      | 850      | 800            | 560  | 40   | 60 | Tr880x7        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/850H  | 344        |                  |
|      | 850      | 800            | 560  | 40   | 60 | Tr900x7        |                               |                               |                | AH241/850G  | 363        |                  |
|      | 850      | 900            | 850  | 265  | 12 | 51             | Tr930x8                       | G <sup>1</sup> / <sub>4</sub> | 15             | 15          | AH39/900H  | 182              |
| 900  |          | 850            | 265  | 12   | 51 | Tr950x8        |                               |                               |                | AH39/900G   | 191        |                  |
| 900  |          | 850            | 335  | 20   | 55 | Tr950x8        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH30/900AH  | 248        |                  |
| 900  |          | 850            | 430  | 45   | 55 | Tr930x8        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH240/900H  | 276        |                  |
| 900  |          | 850            | 430  | 45   | 55 | Tr950x8        |                               |                               |                | AH240/900G  | 291        |                  |
| 900  |          | 850            | 575  | 45   | 60 | Tr930x8        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/900H  | 383        |                  |
| 900  |          | 850            | 575  | 45   | 60 | Tr950x8        |                               |                               |                | AH241/900G  | 397        |                  |
| 860  |          | 900            | 860  | 193  | 12 | 51             | Tr930x8                       | G <sup>1</sup> / <sub>4</sub> | 15             | 15          | AH38/900H  | 109              |
|      |          |                |      |      |    |                |                               |                               |                |             |            |                  |
| 900  |          | 950            | 900  | 282  | 15 | 51             | Tr980x8                       | G <sup>1</sup> / <sub>4</sub> | 15             | 15          | AH39/950H  | 206              |
|      | 950      | 900            | 282  | 15   | 51 | Tr1000x8       |                               |                               |                | AH39/950G   | 216        |                  |
|      | 950      | 900            | 467  | 45   | 55 | Tr980x8        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH240/950H  | 318        |                  |
|      | 950      | 900            | 467  | 45   | 55 | Tr1000x8       |                               |                               |                | AH240/950G  | 335        |                  |
|      | 950      | 900            | 605  | 45   | 60 | Tr980x8        | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/950H  | 426        |                  |
|      | 950      | 900            | 605  | 45   | 60 | Tr1000x8       |                               |                               |                | AH241/950G  | 443        |                  |
|      | 950      | 900            | 605  | 45   | 60 | Tr1000x8       | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/950GH | 440        |                  |
|      | 950      | 1000           | 950  | 296  | 15 | 52             | Tr1060x8                      |                               |                |             | AH39/1000G | 247              |
| 1000 |          | 950            | 469  | 50   | 57 | Tr1035x8       | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH240/1000H | 353        |                  |
| 1000 |          | 950            | 469  | 50   | 57 | Tr1060x8       |                               |                               |                | AH240/1000G | 363        |                  |
| 1000 |          | 950            | 525  | 22   | 63 | Tr1060x8       | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH31/1000AH | 482        |                  |
| 1000 |          | 950            | 645  | 50   | 65 | Tr1035x8       | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/1000H | 482        |                  |
| 1000 |          | 1060           | 1000 | 310  | 15 | 52             | Tr1095x8                      | G <sup>1</sup> / <sub>4</sub> | 15             | 15          | AH39/1060H | 294              |
|      | 1060     | 1000           | 310  | 15   | 52 | Tr1120x8       |                               |                               |                | AH39/1060G  | 313        |                  |
|      | 1060     | 1000           | 498  | 50   | 60 | Tr1095x8       | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH240/1060H | 440        |                  |
|      | 1060     | 1000           | 498  | 50   | 60 | Tr1120x8       |                               |                               |                | AH240/1060G | 473        |                  |
|      | 1060     | 1000           | 665  | 50   | 65 | Tr1095x8       | G <sup>1</sup> / <sub>4</sub> | 15                            | 15             | AH241/1060H | 605        |                  |
|      |          |                |      |      |    |                |                               |                               |                |             |            |                  |

ÇAKMA MANŞONLAR



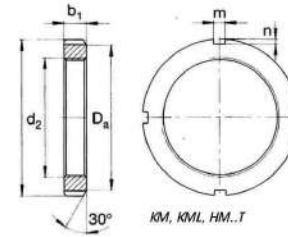
| Mil  | Boyutlar |                |     | Vida |    |                | Numara                        | Ağırlık |                |             |      |
|------|----------|----------------|-----|------|----|----------------|-------------------------------|---------|----------------|-------------|------|
|      | d<br>mm  | d <sub>1</sub> | l   | a    | b  | d <sub>2</sub> |                               |         | R <sub>0</sub> | e           | t    |
| 1060 | 1120     | 1060           | 527 | 50   | 65 | Tr1155x8       | G <sup>1</sup> / <sub>4</sub> | 15      | 15             | AH240/1120H | 490  |
|      | 1120     | 1060           | 527 | 50   | 65 | Tr1180x8       |                               |         |                | AH240/1120G | 533  |
|      | 1120     | 1060           | 705 | 50   | 75 | Tr1180x8       | G <sup>1</sup> / <sub>4</sub> | 15      | 15             | AH241/1120H | 727  |
| 1070 | 1120     | 1070           | 310 | 15   | 52 | Tr1180x8       |                               |         |                | AH39/1120G  | 291  |
| 1120 | 1180     | 1120           | 540 | 50   | 65 | Tr1215x8       | G <sup>1</sup> / <sub>4</sub> | 15      | 15             | AH240/1180H | 530  |
|      | 1180     | 1120           | 540 | 50   | 65 | Tr1250x8       |                               |         |                | AH240/1180G | 586  |
| 1130 | 1180     | 1130           | 330 | 15   | 55 | Tr1215x8       | G <sup>1</sup> / <sub>4</sub> | 15      | 15             | AH39/1180H  | 306  |
|      | 1180     | 1130           | 330 | 15   | 55 | Tr1250x8       |                               |         |                | AH39/1180G  | 337  |
| 1180 | 1250     | 1180           | 570 | 50   | 70 | Tr1285x8       | G <sup>1</sup> / <sub>4</sub> | 15      | 15             | AH240/1250H | 680  |
|      | 1250     | 1180           | 570 | 50   | 70 | Tr1320x8       |                               |         |                | AH240/1250G | 743  |
| 1200 | 1250     | 1200           | 340 | 18   | 55 | Tr1320x8       |                               |         |                | AH39/1250G  | 370  |
| 1250 | 1320     | 1250           | 600 | 50   | 70 | Tr1355x8       | G <sup>1</sup> / <sub>4</sub> | 15      | 15             | AH240/1320H | 760  |
|      | 1320     | 1250           | 600 | 50   | 70 | Tr1400x8       |                               |         |                | AH240/1320G | 840  |
| 1270 | 1320     | 1270           | 360 | 18   | 55 | Tr1400x8       |                               |         |                | AH39/1320G  | 425  |
| 1320 | 1400     | 1320           | 615 | 50   | 70 | Tr1435x8       | G <sup>1</sup> / <sub>4</sub> | 15      | 15             | AH240/1400H | 930  |
|      | 1400     | 1320           | 615 | 50   | 70 | Tr1500x8       |                               |         |                | AH240/1400G | 1040 |
| 1350 | 1400     | 1350           | 380 | 20   | 60 | Tr1500x8       |                               |         |                | AH39/1400G  | 504  |
| 1450 | 1500     | 1450           | 400 | 20   | 60 | Tr1600x8       |                               |         |                | AH39/1500G  | 569  |

## Mil somunları, baskı somunları



| Vida     | Boyutlar    |       |       |     |     | Ağırlık     | Numara |              |
|----------|-------------|-------|-------|-----|-----|-------------|--------|--------------|
| $d_2$    | $D_m$<br>mm | $b_1$ | $D_a$ | $m$ | $n$ | Somun<br>kg | Somun  | Emniyet saçı |
| M10x0.75 | 18          | 4     | 13.5  | 3   | 2   | 0.005       | KM0    | MB0          |
| M12x1    | 22          | 4     | 17    | 3   | 2   | 0.005       | KM1    | MB1, MB1A    |
| M15x1    | 25          | 5     | 21    | 4   | 2   | 0.01        | KM2    | MB2, MB2A    |
| M17x1    | 28          | 5     | 24    | 4   | 2   | 0.015       | KM3    | MB3, MB3A    |
| M20x1    | 32          | 6     | 26    | 4   | 2   | 0.02        | KM4    | MB4, MB4A    |
| M25x1.5  | 38          | 7     | 32    | 5   | 2   | 0.03        | KM5    | MB5, MB5A    |
| M30x1.5  | 45          | 7     | 38    | 5   | 2   | 0.04        | KM6    | MB6, MB6A    |
| M35x1.5  | 52          | 8     | 44    | 5   | 2   | 0.065       | KM7    | MB7, MB7A    |
| M40x1.5  | 58          | 9     | 50    | 6   | 2.5 | 0.085       | KM8    | MB8, MB8A    |
| M45x1.5  | 65          | 10    | 56    | 6   | 2.5 | 0.12        | KM9    | MB9, MB9A    |
| M50x1.5  | 70          | 11    | 61    | 6   | 2.5 | 0.15        | KM10   | MB10, MB10A  |
| M55x2    | 75          | 11    | 67    | 7   | 3   | 0.16        | KM11   | MB11, MB11A  |
| M60x2    | 80          | 11    | 73    | 7   | 3   | 0.175       | KM12   | MB12, MB12A  |
| M65x2    | 85          | 12    | 79    | 7   | 3   | 0.22        | KM13   | MB13, MB13A  |
| M70x2    | 92          | 12    | 85    | 8   | 3.5 | 0.255       | KM14   | MB14, MB14A  |
| M75x2    | 98          | 13    | 90    | 8   | 3.5 | 0.3         | KM15   | MB15, MB15A  |
| M80x2    | 105         | 15    | 95    | 8   | 3.5 | 0.4         | KM16   | MB16, MB16A  |
| M85x2    | 110         | 16    | 102   | 8   | 3.5 | 0.46        | KM17   | MB17, MB17A  |
| M90x2    | 120         | 16    | 108   | 10  | 4   | 0.575       | KM18   | MB18, MB18A  |

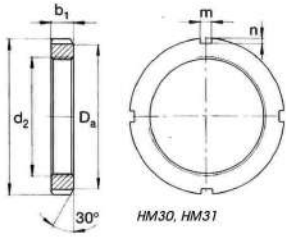
## Mil somunları, baskı somunları



| Vida   | Boyutlar    |       |       |     |     | Ağırlık     | Numara |              |
|--------|-------------|-------|-------|-----|-----|-------------|--------|--------------|
| $d_2$  | $D_m$<br>mm | $b_1$ | $D_a$ | $m$ | $n$ | Somun<br>kg | Somun  | Emniyet saçı |
| M95x2  | 125         | 17    | 113   | 10  | 4   | 0.645       | KM19   | MB19, MB19A  |
| M100x2 | 130         | 18    | 120   | 10  | 4   | 0.725       | KM20   | MB20, MB20A  |
| M105x2 | 140         | 18    | 126   | 12  | 5   | 0.87        | KM21   | MB21         |
| M110x2 | 145         | 19    | 133   | 12  | 5   | 0.97        | KM22   | MB22         |
| M115x2 | 150         | 19    | 137   | 12  | 5   | 1.01        | KM23   | MB23         |
| M120x2 | 145         | 20    | 135   | 12  | 5   | 0.79        | KML24  | MBL24        |
| M120x2 | 155         | 20    | 138   | 12  | 5   | 1.08        | KM24   | MB24         |
| M125x2 | 160         | 21    | 148   | 12  | 5   | 1.22        | KM25   | MB25         |
| M130x2 | 155         | 21    | 145   | 12  | 5   | 0.9         | KML26  | MBL26        |
| M130x2 | 165         | 21    | 149   | 12  | 5   | 1.24        | KM26   | MB26         |
| M135x2 | 175         | 22    | 160   | 14  | 6   | 1.55        | KM27   | MB27         |
| M140x2 | 165         | 22    | 155   | 12  | 5   | 1.01        | KML28  | MBL28        |
| M140x2 | 180         | 22    | 160   | 14  | 6   | 1.56        | KM28   | MB28         |
| M145x2 | 190         | 24    | 171   | 14  | 6   | 2.05        | KM29   | MB29         |
| M150x2 | 180         | 24    | 170   | 14  | 5   | 1.44        | KML30  | MBL30        |
| M150x2 | 195         | 24    | 171   | 14  | 6   | 2.06        | KM30   | MB30         |
| M155x3 | 200         | 25    | 182   | 16  | 7   | 2.27        | KM31   | MB31         |
| M160x3 | 190         | 25    | 180   | 14  | 5   | 1.62        | KML32  | MBL32        |
| M160x3 | 210         | 25    | 182   | 16  | 7   | 2.52        | KM32   | MB32         |
| M165x3 | 210         | 26    | 193   | 16  | 7   | 2.7         | KM33   | MB33         |
| M170x3 | 200         | 26    | 190   | 16  | 5   | 1.72        | KML34  | MBL34        |
| M170x3 | 220         | 26    | 193   | 16  | 7   | 2.8         | KM34   | MB34         |

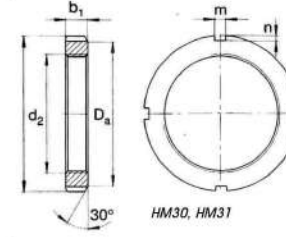


## Mil somunları, baskı somunları



| Vida    | Boyutlar    |       |       |     |     | Ağırlık     | Numara |              |
|---------|-------------|-------|-------|-----|-----|-------------|--------|--------------|
| $d_2$   | $D_m$<br>mm | $b_1$ | $D_a$ | $m$ | $n$ | Somun<br>kg | Somun  | Emniyet saçı |
| M180x3  | 210         | 27    | 200   | 16  | 5   | 1.96        | KML36  | MBL36        |
| M180x3  | 230         | 27    | 203   | 18  | 8   | 3.04        | KM36   | MB36         |
| M190x3  | 220         | 28    | 210   | 16  | 5   | 2.13        | KML38  | MBL38        |
| M190x3  | 240         | 28    | 214   | 18  | 8   | 3.34        | KM38   | MB38         |
| M200x3  | 240         | 29    | 222   | 18  | 8   | 2.9         | KML40  | MBL40        |
| M200x3  | 250         | 29    | 226   | 18  | 8   | 3.69        | KM40   | MB40         |
| Tr220x4 | 260         | 30    | 242   | 20  | 9   | 3.21        | HM3044 | MS3044       |
| Tr220x4 | 280         | 32    | 250   | 20  | 10  | 5.3         | HM44T  | MB44         |
| Tr240x4 | 290         | 34    | 270   | 20  | 10  | 5.12        | HM3048 | MS3048       |
| Tr240x4 | 300         | 34    | 270   | 20  | 10  | 6.15        | HM48T  | MB48         |
| Tr260x4 | 310         | 34    | 290   | 20  | 10  | 5.54        | HM3052 | MS3048       |
| Tr260x4 | 330         | 35    | 300   | 24  | 12  | 8.05        | HM52T  | MB52         |
| Tr280x4 | 330         | 38    | 310   | 24  | 10  | 6.61        | HM3056 | MS3056       |
| Tr280x4 | 350         | 36    | 320   | 24  | 12  | 8.9         | HM56T  | MB56         |
| Tr300x4 | 360         | 42    | 336   | 24  | 12  | 9.48        | HM3060 | MS3060       |
| Tr300x4 | 380         | 40    | 340   | 24  | 12  | 11.4        | HM3160 | MS3160       |
| Tr320x5 | 380         | 42    | 356   | 24  | 12  | 10.1        | HM3064 | MS3064       |
| Tr320x5 | 400         | 42    | 360   | 24  | 12  | 12.8        | HM3164 | MS3164       |
| Tr340x5 | 400         | 45    | 376   | 24  | 12  | 11.5        | HM3068 | MS3064       |
| Tr340x5 | 440         | 55    | 400   | 28  | 15  | 23          | HM3168 | MS3168       |
| Tr360x5 | 420         | 45    | 394   | 28  | 13  | 11.9        | HM3072 | MS3072       |
| Tr360x5 | 460         | 58    | 420   | 28  | 15  | 25.7        | HM3172 | MS3168       |
| Tr380x5 | 450         | 48    | 422   | 28  | 14  | 15.9        | HM3076 | MS3076       |
| Tr380x5 | 490         | 60    | 440   | 32  | 18  | 30          | HM3176 | MS3168       |
| Tr400x5 | 470         | 52    | 442   | 28  | 14  | 18.2        | HM3080 | MS3076       |
| Tr400x5 | 520         | 62    | 460   | 32  | 18  | 35.7        | HM3180 | MS3180       |
| Tr420x5 | 490         | 52    | 462   | 32  | 14  | 18.9        | HM3084 | MS3084       |
| Tr420x5 | 540         | 70    | 490   | 32  | 18  | 43.4        | HM3184 | MS3180       |

## Mil somunları, baskı somunları

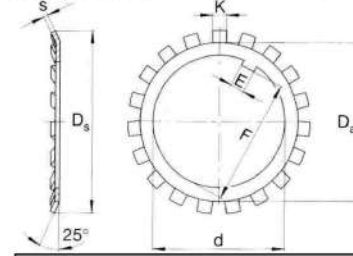


| Vida    | Boyutlar    |       |       |     |     | Ağırlık     | Numara   |              |
|---------|-------------|-------|-------|-----|-----|-------------|----------|--------------|
| $d_2$   | $D_m$<br>mm | $b_1$ | $D_a$ | $m$ | $n$ | Somun<br>kg | Somun    | Emniyet saçı |
| Tr440x5 | 520         | 60    | 490   | 32  | 15  | 26.5        | HM3088   | MS3088       |
| Tr440x5 | 560         | 70    | 510   | 36  | 20  | 44.3        | HM3188   | MS3188       |
| Tr460x5 | 540         | 60    | 510   | 32  | 15  | 27.7        | HM3092   | MS3088       |
| Tr460x5 | 580         | 75    | 540   | 36  | 20  | 53.8        | HM3192   | MS3188       |
| Tr480x5 | 560         | 60    | 530   | 36  | 15  | 28.7        | HM3096   | MS3096       |
| Tr480x5 | 620         | 75    | 560   | 36  | 20  | 62.2        | HM3196   | MS3196       |
| Tr500x5 | 580         | 68    | 550   | 36  | 15  | 34          | HM30/500 | MS3096       |
| Tr500x5 | 630         | 80    | 580   | 40  | 23  | 62.1        | HM31/500 | MS31/500     |
| Tr530x6 | 630         | 68    | 590   | 40  | 20  | 44.7        | HM30/530 | MS30/530     |
| Tr530x6 | 670         | 80    | 610   | 40  | 23  | 71.2        | HM31/530 | MS31/530     |
| Tr560x6 | 650         | 75    | 610   | 40  | 20  | 46.2        | HM30/560 | MS30/560     |
| Tr560x6 | 710         | 85    | 650   | 45  | 25  | 85.6        | HM31/560 | MS31/560     |
| Tr600x6 | 700         | 75    | 660   | 40  | 20  | 55.9        | HM30/600 | MS30/530     |
| Tr600x6 | 750         | 85    | 690   | 45  | 25  | 91.7        | HM31/600 | MS31/560     |
| Tr630x6 | 730         | 75    | 690   | 45  | 20  | 58.3        | HM30/630 | MS30/630     |
| Tr630x6 | 800         | 95    | 730   | 50  | 28  | 122         | HM31/630 | MS31/630     |
| Tr670x6 | 780         | 80    | 740   | 45  | 20  | 73.8        | HM30/670 | MS30/670     |
| Tr670x6 | 850         | 106   | 775   | 50  | 28  | 156         | HM31/670 | MS31/670     |
| Tr710x7 | 830         | 90    | 780   | 50  | 25  | 94.8        | HM30/710 | MS30/710     |
| Tr710x7 | 900         | 106   | 825   | 55  | 30  | 173         | HM31/710 | MS31/710     |
| Tr750x7 | 870         | 90    | 820   | 55  | 25  | 99.5        | HM30/750 | MS30/750     |
| Tr750x7 | 950         | 112   | 875   | 60  | 34  | 202         | HM31/750 | MS31/750     |
| Tr800x7 | 920         | 90    | 870   | 55  | 25  | 106         | HM30/800 | MS30/750     |
| Tr800x7 | 1000        | 112   | 925   | 60  | 34  | 215         | HM31/800 | MS31/750     |
| Tr850x7 | 980         | 90    | 925   | 60  | 25  | 113         | HM30/850 | MS30/850     |
| Tr850x7 | 1060        | 118   | 975   | 70  | 38  | 246         | HM31/850 | MS31/850     |
| Tr900x7 | 1030        | 100   | 975   | 60  | 25  | 135         | HM30/900 | MS30/850     |
| Tr900x7 | 1120        | 125   | 1030  | 70  | 38  | 293         | HM31/900 | MS31/900     |

## Mil somunları, baskı somunları

| Vida     | Boyutlar |             |       |       |     | Ağırlık<br>Somun<br>kg | Numara<br>Somun | Emniyet saçı |
|----------|----------|-------------|-------|-------|-----|------------------------|-----------------|--------------|
|          | $d_2$    | $D_m$<br>mm | $b_1$ | $D_a$ | $m$ |                        |                 |              |
| Tr950x8  | 1080     | 100         | 1025  | 60    | 25  | 143                    | HM30/950        | MS30/950     |
| Tr950x8  | 1170     | 125         | 1080  | 70    | 38  | 310                    | HM31/950        | MS31/950     |
| Tr1000x8 | 1140     | 100         | 1085  | 60    | 25  | 165                    | HM30/1000       | MS30/1000    |
| Tr1000x8 | 1240     | 125         | 1140  | 70    | 38  | 361                    | HM31/1000       | MS31/1000    |
| Tr1060x8 | 1200     | 100         | 1145  | 60    | 25  | 175                    | HM30/1060       | MS30/1000    |
| Tr1060x8 | 1300     | 125         | 1210  | 70    | 38  | 386                    | HM31/1060       | MS31/1000    |
| Tr1120x8 | 1260     | 100         | 1205  | 60    | 25  | 185                    | HM30/1120       | MS30/1000    |
| Tr1120x8 | 1360     | 125         | 1270  | 70    | 38  | 427                    | HM31/1120       | MS31/1000    |
| Tr1180x8 | 1320     | 100         | 1265  | 60    | 25  | 196                    | HM30/1180       | MS30/1000    |
| Tr1180x8 | 1420     | 125         | 1330  | 70    | 38  | 459                    | HM31/1180       | MS31/1000    |
| Tr1250x8 | 1390     | 110         | 1335  | 60    | 25  | 233                    | HM30/1250       | MS30/1000    |
| Tr1250x8 | 1490     | 125         | 1400  | 70    | 38  | 485                    | HM31/1250       | MS31/1000    |
| Tr1320x8 | 1460     | 110         | 1405  | 60    | 25  | 245                    | HM30/1320       | MS30/1000    |
| Tr1320x8 | 1560     | 125         | 1470  | 70    | 38  | 511                    | HM31/1320       | MS31/1000    |
| Tr1400x8 | 1540     | 110         | 1485  | 60    | 25  | 259                    | HM30/1400       | MS30/1000    |
| Tr1400x8 | 1640     | 130         | 1550  | 70    | 38  | 562                    | HM31/1400       | MS31/1000    |
| Tr1500x8 | 1650     | 110         | 1595  | 60    | 25  | 297                    | HM30/1500       | MS30/1000    |
| Tr1500x8 | 1740     | 130         | 1650  | 70    | 38  | 601                    | HM31/1500       | MS31/1000    |

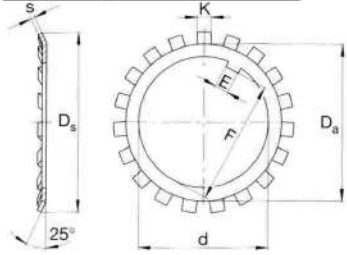
## Emniyet Saçları



| Vida  | Boyutlar  |       |       |       |       |      |     | Ağırlık<br>100 adet<br>kg |
|-------|-----------|-------|-------|-------|-------|------|-----|---------------------------|
|       | $D$<br>mm | $D_s$ | $D_a$ | $s^1$ | $t^2$ | $F$  | $K$ |                           |
| MB0   | 10        | 21    | 13.5  | 1     | 3     | 8.5  | 3   | 0.13                      |
| MB1   | 12        | 25    | 17    | 1     | 3     | 10.5 | 3   | 0.192                     |
| MB1A  | 12        | 25    | 17    | 1.2   | 3     | 10.5 | 3   | 0.23                      |
| MB2   | 15        | 28    | 21    | 1     | 4     | 13.5 | 4   | 0.253                     |
| MB2A  | 15        | 28    | 21    | 1.2   | 4     | 13.5 | 4   | 0.31                      |
| MB3   | 17        | 32    | 24    | 1     | 4     | 15.5 | 4   | 0.313                     |
| MB3A  | 17        | 32    | 24    | 1.2   | 4     | 15.5 | 4   | 0.38                      |
| MB4   | 20        | 36    | 26    | 1     | 4     | 18.5 | 4   | 0.35                      |
| MB4A  | 20        | 36    | 26    | 1.2   | 4     | 18.5 | 4   | 0.4                       |
| MB5   | 25        | 42    | 32    | 1.25  | 5     | 23   | 5   | 0.64                      |
| MB5A  | 25        | 42    | 32    | 1.8   | 5     | 23   | 5   | 0.9                       |
| MB6   | 30        | 49    | 38    | 1.25  | 5     | 27.5 | 5   | 0.78                      |
| MB6A  | 30        | 49    | 38    | 1.8   | 5     | 27.5 | 5   | 1.1                       |
| MB7   | 35        | 57    | 44    | 1.04  | 6     | 32.5 | 5   | 1.04                      |
| MB7A  | 35        | 57    | 44    | 1.85  | 6     | 32.5 | 5   | 1.5                       |
| MB8   | 40        | 62    | 50    | 1.25  | 6     | 37.5 | 6   | 1.23                      |
| MB8A  | 40        | 62    | 50    | 1.8   | 6     | 37.5 | 6   | 1.8                       |
| MB9   | 45        | 69    | 56    | 1.25  | 6     | 42.5 | 6   | 1.52                      |
| MB9A  | 45        | 69    | 56    | 1.8   | 6     | 42.5 | 6   | 2.2                       |
| MB10  | 50        | 74    | 61    | 1.25  | 6     | 47.5 | 6   | 1.6                       |
| MB10A | 50        | 74    | 61    | 1.8   | 6     | 47.5 | 6   | 2.3                       |
| MB11  | 55        | 81    | 67    | 1.5   | 8     | 52.5 | 7   | 1.96                      |
| MB11A | 55        | 81    | 67    | 2.5   | 8     | 52.5 | 7   | 3.9                       |
| MB12  | 60        | 86    | 73    | 1.5   | 8     | 57.5 | 7   | 2.53                      |
| MB12A | 60        | 86    | 73    | 2.5   | 8     | 57.5 | 7   | 4.2                       |
| MB13  | 65        | 92    | 79    | 1.5   | 8     | 62.5 | 7   | 2.9                       |
| MB13A | 65        | 92    | 79    | 2.5   | 8     | 62.5 | 7   | 4.8                       |

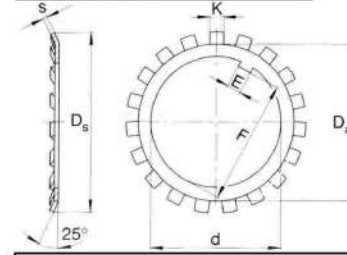


## Emniyet Saçları



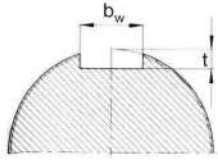
| Vida         | Boyutlar |                |                |                |                |       |    | Ağırlık<br>100 adet<br>kg | Numara<br>Somun |
|--------------|----------|----------------|----------------|----------------|----------------|-------|----|---------------------------|-----------------|
|              | D<br>mm  | D <sub>s</sub> | D <sub>a</sub> | s <sup>1</sup> | ε <sup>2</sup> | F     | K  |                           |                 |
| <b>MB14</b>  | 70       | 98             | 85             | 1,5            | 8              | 66,5  | 8  | 3,34                      |                 |
| <b>MB14A</b> | 70       | 98             | 85             | 2,5            | 8              | 66,5  | 8  | 3,34                      |                 |
| <b>MB15</b>  | 75       | 104            | 90             | 1,5            | 8              | 71,5  | 8  | 3,56                      |                 |
| <b>MB15A</b> | 75       | 104            | 90             | 2,5            | 8              | 71,5  | 8  | 3,56                      |                 |
| <b>MB16</b>  | 80       | 112            | 95             | 1,75           | 10             | 76,5  | 8  | 4,64                      |                 |
| <b>MB16A</b> | 80       | 112            | 95             | 2,5            | 10             | 76,5  | 8  | 4,64                      |                 |
| <b>MB17</b>  | 85       | 119            | 102            | 1,75           | 10             | 81,5  | 8  | 5,24                      |                 |
| <b>MB17A</b> | 85       | 119            | 102            | 2,5            | 10             | 81,5  | 8  | 5,24                      |                 |
| <b>MB18</b>  | 90       | 126            | 108            | 1,75           | 10             | 86,5  | 10 | 6,23                      |                 |
| <b>MB18A</b> | 90       | 126            | 108            | 2,5            | 10             | 86,5  | 10 | 6,23                      |                 |
| <b>MB19</b>  | 95       | 133            | 113            | 1,75           | 10             | 91,5  | 10 | 6,7                       |                 |
| <b>MB19A</b> | 95       | 133            | 113            | 2,5            | 10             | 91,5  | 10 | 6,7                       |                 |
| <b>MB20</b>  | 100      | 142            | 120            | 1,75           | 12             | 96,5  | 10 | 7,65                      |                 |
| <b>MB20A</b> | 100      | 142            | 120            | 2,5            | 12             | 96,5  | 10 | 7,65                      |                 |
| <b>MB21</b>  | 105      | 145            | 126            | 1,75           | 12             | 100,5 | 12 | 8,62                      |                 |
| <b>MB22</b>  | 110      | 154            | 133            | 1,75           | 12             | 105,5 | 12 | 9,4                       |                 |
| <b>MB23</b>  | 115      | 159            | 137            | 2              | 12             | 110,5 | 12 | 10,8                      |                 |
| <b>MBL24</b> | 120      | 148            | 135            | 2              | 14             | 115   | 12 | 7,7                       |                 |
| <b>MB24</b>  | 120      | 164            | 138            | 2              | 14             | 115   | 12 | 10,5                      |                 |
| <b>MB25</b>  | 125      | 170            | 148            | 2              | 14             | 120   | 12 | 11,8                      |                 |
| <b>MBL26</b> | 130      | 158            | 145            | 2              | 14             | 125   | 12 | 8,7                       |                 |
| <b>MB26</b>  | 130      | 175            | 149            | 2              | 14             | 125   | 12 | 11,3                      |                 |
| <b>MB27</b>  | 135      | 185            | 160            | 2              | 14             | 130   | 14 | 14,4                      |                 |
| <b>MBL28</b> | 140      | 170            | 155            | 2              | 16             | 135   | 12 | 10,9                      |                 |
| <b>MB28</b>  | 140      | 192            | 160            | 2              | 16             | 135   | 14 | 14,2                      |                 |

## Emniyet Saçları

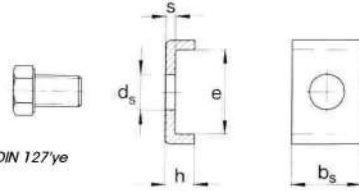


| Vida         | Boyutlar |                |                |                |                |       |    | Ağırlık<br>100 adet<br>kg | Numara<br>Somun |
|--------------|----------|----------------|----------------|----------------|----------------|-------|----|---------------------------|-----------------|
|              | D<br>mm  | D <sub>s</sub> | D <sub>a</sub> | s <sup>1</sup> | ε <sup>2</sup> | F     | K  |                           |                 |
| <b>MB29</b>  | 145      | 202            | 171            | 2              | 16             | 140   | 14 | 16.8                      |                 |
| <b>MBL30</b> | 150      | 188            | 170            | 2              | 16             | 145   | 14 | 11.3                      |                 |
| <b>MB30</b>  | 150      | 205            | 171            | 2              | 16             | 145   | 14 | 15.5                      |                 |
| <b>MB31</b>  | 155      | 212            | 182            | 2.5            | 16             | 147.5 | 16 | 20.9                      |                 |
| <b>MBL32</b> | 160      | 199            | 180            | 2.5            | 18             | 154   | 14 | 16.2                      |                 |
| <b>MB32</b>  | 160      | 217            | 182            | 2.5            | 18             | 154   | 16 | 22.2                      |                 |
| <b>MB33</b>  | 165      | 222            | 193            | 2.5            | 18             | 157.5 | 16 | 24.1                      |                 |
| <b>MBL34</b> | 170      | 211            | 190            | 2.5            | 18             | 164   | 16 | 17                        |                 |
| <b>MB34</b>  | 170      | 232            | 193            | 2.5            | 18             | 164   | 16 | 24.7                      |                 |
| <b>MBL36</b> | 180      | 221            | 200            | 2.5            | 20             | 174   | 16 | 18                        |                 |
| <b>MB36</b>  | 180      | 242            | 203            | 2.5            | 20             | 174   | 18 | 26.8                      |                 |
| <b>MBL38</b> | 190      | 231            | 210            | 2.5            | 20             | 184   | 16 | 20.5                      |                 |
| <b>MB38</b>  | 190      | 252            | 214            | 2.5            | 20             | 184   | 18 | 27.8                      |                 |
| <b>MBL40</b> | 200      | 248            | 222            | 2.5            | 20             | 194   | 18 | 21.4                      |                 |
| <b>MB40</b>  | 200      | 262            | 226            | 2.5            | 20             | 194   | 18 | 29.3                      |                 |
| <b>MB44</b>  | 220      | 292            | 250            | 3              | 24             | 213   | 20 | 40                        |                 |
| <b>MB48</b>  | 240      | 312            | 270            | 3              | 24             | 233   | 20 | 40                        |                 |
| <b>MB52</b>  | 260      | 342            | 300            | 3              | 28             | 253   | 24 | 60                        |                 |
| <b>MB56</b>  | 280      | 362            | 320            | 3              | 28             | 273   | 24 | 62                        |                 |

### Emniyet askısı altı köşeli civatası olan

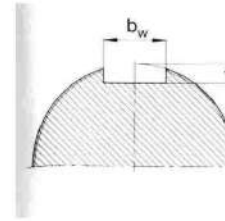


Vidalı kısma kadar M16:  
Kendinden emniyetli yivli civata  
Vidalı kısımdan itibaren M20:  
DIN 933'e göre altı köşeli civata ve DIN 127'ye  
göre yaylı rondela

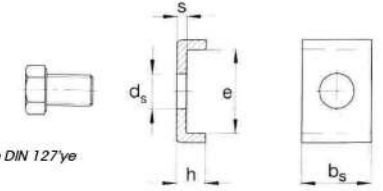


| Vida     | Boyutlar |                |    |                |      | Altı köşeli<br>civata<br>Kendinden<br>emniyetli | Sıkma<br>Momenti<br>Nm | Mil                  |    | Ağırlık<br>kg |
|----------|----------|----------------|----|----------------|------|---|------------------------|----------------------|----|---------------|
|          | s<br>mm  | b <sub>s</sub> | h  | d <sub>s</sub> | e    |   |                        | b <sub>w</sub><br>mm | t  |               |
| MS3044   | 4        | 20             | 12 | 7              | 13.5 | M6x10   | 10                     | 22                   | 9  | 0.026         |
| MS3144   | 4        | 20             | 12 | 9              | 22.5 | M8x16   | 25                     | 22                   | 9  | 0.038         |
| MS3048   | 4        | 20             | 12 | 9              | 17.5 | M8x16   | 25                     | 22                   | 9  | 0.035         |
| MS3152   | 4        | 24             | 12 | 11             | 25.5 | M10x20  | 51                     | 26                   | 9  | 0.056         |
| MS3056   | 4        | 24             | 12 | 9              | 17.5 | M8x16   | 25                     | 26                   | 9  | 0.04          |
| MS3060   | 4        | 24             | 12 | 9              | 20.5 | M8x16   | 25                     | 26                   | 9  | 0.043         |
| MS3160   | 4        | 24             | 12 | 12             | 30.5 | M10x20  | 51                     | 26                   | 9  | 0.059         |
| MS3064   | 5        | 24             | 15 | 9              | 21   | M8x16   | 25                     | 26                   | 10 | 0.057         |
| MS3164   | 5        | 24             | 15 | 12             | 31   | M10x20  | 51                     | 26                   | 10 | 0.074         |
| MS3168   | 5        | 28             | 15 | 14             | 38   | M12x22  | 87                     | 30                   | 10 | 0.115         |
| MS3072   | 5        | 28             | 15 | 9              | 20   | M8x16   | 25                     | 30                   | 10 | 0.064         |
| MS3076   | 5        | 28             | 15 | 12             | 24   | M10x20  | 51                     | 30                   | 10 | 0.076         |
| MS3176   | 5        | 32             | 15 | 14             | 40   | M12x22  | 87                     | 34                   | 10 | 0.115         |
| MS3180   | 5        | 32             | 15 | 18             | 45   | M16x25  | 215                    | 34                   | 10 | 0.154         |
| MS3084   | 5        | 32             | 15 | 12             | 24   | M10x20  | 51                     | 34                   | 10 | 0.085         |
| MS3088   | 5        | 32             | 15 | 14             | 28   | M12x22  | 87                     | 34                   | 10 | 0.1           |
| MS3188   | 5        | 36             | 15 | 18             | 43   | M16x25  | 215                    | 38                   | 10 | 0.163         |
| MS3096   | 5        | 36             | 15 | 14             | 28   | M12x22  | 87                     | 38                   | 12 | 0.109         |
| MS3196   | 5        | 36             | 15 | 18             | 53   | M16x25  | 215                    | 38                   | 12 | 0.177         |
| MS31/500 | 5        | 40             | 15 | 18             | 45   | M16x25  | 215                    | 42                   | 12 | 0.178         |
| MS30/530 | 7        | 40             | 21 | 18             | 34   | M16x25  | 215                    | 42                   | 14 | 0.223         |
| MS31/530 | 7        | 40             | 21 | 22             | 51   | M20x40  | 430                    | 42                   | 14 | 0.347         |

### Emniyet askısı altı köşeli civatası olan



Vidalı kısma kadar M16:  
Kendinden emniyetli yivli civata  
Vidalı kısımdan itibaren M20:  
DIN 933'e göre altı köşeli civata ve DIN 127'ye  
göre yaylı rondela



| Vida      | Boyutlar |                |    |                |    | Altı köşeli<br>civata<br>Kendinden<br>emniyetli | Sıkma<br>Momenti<br>Nm | Mil                  |    | Ağırlık<br>kg |
|-----------|----------|----------------|----|----------------|----|---|------------------------|----------------------|----|---------------|
|           | s<br>mm  | b <sub>s</sub> | h  | d <sub>s</sub> | e  |   |                        | b <sub>w</sub><br>mm | t  |               |
| MS30/560  | 7        | 40             | 21 | 18             | 29 | M16x25  | 215                    | 42                   | 14 | 0.212         |
| MS31/560  | 7        | 45             | 21 | 22             | 54 | M20x40  | 430                    | 47                   | 14 | 0.38          |
| MS30/630  | 7        | 45             | 21 | 18             | 34 | M16x25  | 215                    | 47                   | 14 | 0.244         |
| MS31/630  | 7        | 50             | 21 | 22             | 61 | M20x40  | 430                    | 52                   | 15 | 0.426         |
| MS30/670  | 7        | 45             | 21 | 18             | 39 | M16x25  | 215                    | 47                   | 14 | 0.257         |
| MS31/670  | 7        | 50             | 21 | 22             | 66 | M20x40  | 430                    | 52                   | 15 | 0.439         |
| MS30/710  | 7        | 50             | 21 | 18             | 39 | M16x25  | 215                    | 52                   | 15 | 0.279         |
| MS31/710  | 7        | 55             | 21 | 26             | 69 | M24x45  | 740                    | 57                   | 15 | 0.58          |
| MS30/750  | 7        | 55             | 21 | 18             | 39 | M16x25  | 215                    | 57                   | 15 | 0.301         |
| MS31/750  | 7        | 60             | 21 | 26             | 70 | M24x45  | 740                    | 62                   | 15 | 0.614         |
| MS30/850  | 7        | 60             | 21 | 22             | 44 | M20x40  | 430                    | 62                   | 15 | 0.426         |
| MS31/850  | 7        | 70             | 21 | 26             | 71 | M24x45  | 740                    | 72                   | 16 | 0.679         |
| MS31/900  | 7        | 70             | 21 | 26             | 76 | M24x45  | 740                    | 72                   | 16 | 0.698         |
| MS30/950  | 7        | 60             | 21 | 22             | 46 | M20x40  | 430                    | 62                   | 16 | 0.433         |
| MS31/950  | 7        | 70             | 21 | 26             | 78 | M24x45  | 740                    | 72                   | 16 | 0.706         |
| MS30/1000 | 7        | 60             | 21 | 22             | 51 | M20x40  | 430                    | 62                   | 16 | 0.449         |
| MS31/1000 | 7        | 70             | 21 | 26             | 88 | M24x45  | 740                    | 72                   | 16 | 0.744         |
| MS30/1500 | 7        | 60             | 21 | 22             | 56 | M20x40  | 430                    | 62                   | 16 | 0.466         |



## K.M.S Germe Manşonlarının Kullanıldığı Konik Rulmanlar

| Mil Çapı (mm) | Manşon Kodu | Rulman Kodu               |
|---------------|-------------|---------------------------|
| 20            | H-205       | 1205K                     |
| 20            | H-305       | 2205K/22205K              |
| 20            | H-2305      | 2305K                     |
| 25            | H-206       | 1206K                     |
| 25            | H-306       | 1306K/2206K/22206K        |
| 25            | H-2306      | 2306K                     |
| 30            | H-207       | 1207K                     |
| 30            | H-307       | 1307K/2207K/22207K/21307K |
| 30            | H-2307      | 2307K                     |
| 35            | H-208       | 1208K                     |
| 35            | H-308       | 1308K/2208K/22208K/21308K |
| 35            | H-2308      | 2308K/22308K              |
| 40            | H-209       | 1209K                     |
| 40            | H-309       | 1309K/2209K/22209K/21309K |
| 40            | H-2309      | 2309K/22309K              |
| 45            | H-210       | 1210K                     |
| 45            | H-310       | 1310K/2210K/22210K/21310K |
| 45            | H-2310      | 2310K/22310K              |
| 50            | H-211       | 1211K                     |
| 50            | H-311       | 1311K/2211K/22211K/21311K |
| 50            | H-2311      | 2311K/22311K              |
| 55            | H-212       | 1212K                     |
| 55            | H-312       | 1312K/2212K/22212K/21312K |
| 55            | H-2312      | 2312K/22312K              |
| 60            | H-213       | 1213K                     |
| 60            | H-313       | 1313K/2213K/22213K/21313K |
| 60            | H-2313      | 2313K/22313K              |
| 60            | H-214       | 1214K                     |
| 60            | H-314       | 22214K/21314K             |
| 60            | H-2314      | 22314K                    |
| 65            | H-215       | 1215K                     |
| 65            | H-315       | 1315K/2215K/22215K/21315K |
| 65            | H-2315      | 2315K/22315K              |
| 70            | H-216       | 1216K                     |
| 70            | H-316       | 1316K/2216K/22216K/21316K |
| 70            | H-2316      | 2316K/22316K              |

| Mil Çapı (mm) | Manşon Kodu | Rulman Kodu               |
|---------------|-------------|---------------------------|
| 75            | H-217       | 1217K                     |
| 75            | H-317       | 1317K/2217K/22217K/21317K |
| 75            | H-2317      | 2317K/22317K              |
| 80            | H-218       | 1218K                     |
| 80            | H-318       | 1318K/2218K/22218K/21318K |
| 80            | H-2318      | 2318K/22318K              |
| 85            | H-219       | 1219K                     |
| 85            | H-319       | 2219K/22219K/21319K       |
| 85            | H-2319      | 2319K/22319K              |
| 90            | H-220       | 1220K                     |
| 90            | H-320       | 1320K/2220K/22220K/21320K |
| 90            | H-3120      | 23120K                    |
| 90            | H-2320      | 2320K/23220K/22320K       |
| 100           | H-222       | 1222K                     |
| 100           | H-322       | 22222K/21322K             |
| 100           | H-3122      | 23122K                    |
| 100           | H-2322      | 23222K/22322K             |
| 110           | H-3024      | 23024K                    |
| 110           | H-3124      | 23124K/22224K             |
| 110           | H-2324      | 23224K/22324K             |
| 115           | H-3026      | 23026K                    |
| 115           | H-3126      | 23126K/22226K             |
| 115           | H-2326      | 23226K/22326K             |
| 125           | H-3028      | 23028K                    |
| 125           | H-3128      | 23128K/22228K             |
| 125           | H-2328      | 23228K/22328K             |
| 135           | H-3030      | 23030K                    |
| 135           | H-3130      | 23130K/22230K             |
| 135           | H-2330      | 23230K/22330K             |
| 140           | H-3032      | 23032K                    |
| 140           | H-3132      | 23132K/22232K             |
| 140           | H-2332      | 23232K/22332K             |
| 150           | H-3034      | 23034K                    |
| 150           | H-3134      | 23134K/22234K             |
| 150           | H-2334      | 23234K/22334K             |
| 160           | H-3036      | 23036K                    |
| 160           | H-3136      | 23136K/22236K             |
| 160           | H-2336      | 23236K/22336K             |

## K.M.S Germe Manşonlarının Kullanıldığı Konik Rulmanlar

| Mil Çapı (mm) | Manşon Kodu | Rulman Kodu   |
|---------------|-------------|---------------|
| 170           | H-3038      | 23038K        |
| 170           | H-3138      | 23138K/22238K |
| 170           | H-2338      | 23238K/22338K |
| 180           | H-3040      | 23040K        |
| 180           | H-3140      | 23140K/22240K |
| 180           | H-2340      | 23240K/22340K |
| 200           | H-3044      | 23044K        |
| 200           | H-3144      | 23144K/22244K |
| 200           | H-2344      | 23244K/22344K |
| 220           | H-3048      | 23048K        |
| 220           | H-3148      | 23148K/22248K |
| 220           | H-2348      | 23248K/22348K |
| 240           | H-3052      | 23052K        |
| 240           | H-3152      | 23152K/22252K |
| 240           | H-2352      | 23252K/22352K |
| 260           | H-3056      | 23056K        |
| 260           | H-3156      | 23156K/22256K |
| 260           | H-2356      | 23256K/22356K |
| 280           | H-3060      | 23060K        |
| 280           | H-3160      | 23160K/22260K |
| 280           | H-3260      | 23260K        |
| 300           | H-3064      | 23064K        |
| 300           | H-3164      | 23164K/22264K |
| 300           | H-3264      | 23264K        |
| 320           | H-3068      | 23068K        |
| 320           | H-3168      | 23168K        |
| 320           | H-3268      | 23268K        |
| 340           | H-3072      | 23072K        |
| 340           | H-3172      | 23172K        |
| 340           | H-3272      | 23272K        |
| 360           | H-3076      | 23076K        |
| 360           | H-3176      | 23176K        |
| 360           | H-3276      | 23276K        |
| 380           | H-3080      | 23080K        |
| 380           | H-3180      | 23180K        |
| 380           | H-3280      | 23280K        |
| 400           | H-3084      | 23084K        |
| 400           | H-3184      | 23184K        |
| 400           | H-3284      | 23284K        |



*Unutmayalım ki; "kalite asla bir tesadüf değil,  
daima akıllı bir gayretin sonucudur."*



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