

# STD

çözümün bir **parçası**



## TEKNİK KATALOG

TECHNICAL CATALOG

TECHNISCHER KATALOG

# Sektörün Standartlarını Belirliyoruz!

## Hakkımızda

1982 yılında Norm Holding bünyesinde başlayan faaliyetlerimizi,170 kişilik uzman kadromuzla inşaat, tarım, otomotiv, beyaz eşya, enerji, mobilya, pvc, solar, telekomünikasyon, maden, denizcilik, makine ve çeşitli sektörlerde ürün ve hizmet kalitesini odağımıza alarak sürdürmekteyiz.

Yurt içinde İzmir, Manisa, Kocaeli ve Ankara'da bulunan, toplam 40.000 adet palet kapasitesine sahip ve yaklaşık 15.000 ton hazır stokumuz ile 67 şehre ve 50'den fazla ülkeye ürünlerimizi ulaştırmaktayız.

Depoların bulunduğu şehirlerde araç filolarımız ile; ambar, kargo ve diğer dağıtım firmalarından aldığımız hizmetler ile lojistik operasyonlarımızı gerçekleştirmekteyiz. Müşterilerimize doğrudan satış ile birlikte home depo, kanban hizmetleri ve çözüm aracı ile yerinde uygulamalar için çözüm ortaklığı sunmaktayız.

Norm Holding çatısı altında üretimi yapılan civata, somun, vida, saç parçalar, sıcak dövme, ürünleri ile birlikte rondela, dübel, paslanmaz bağlantı elemanları, özel bağlantı elemanları, hırdavat ürünleri ana portföyümüzü oluşturmaktadır.

Sahip olduğumuz kalite belgeleri , ISO 9001:2015 Kalite Yönetim Sistemi ve ISO/IEC 27001:2013 Bilgi Güvenliği Yönetim Sistemi'ni içermektedir.

SAP entegrasyonu ile birlikte tüm tedarik zinciri süreçlerimizde izlenebilirlik sağlanmış olup müşterilerimize anlık bilgi akışı sağlanmıştır.

# Misyonumuz

Sektöründe tercih edilen, uzman ekibiyle paydaşlarının memnuniyetini esas alan, rekabetçi avantajlarını sürdürülebilir kılarak kurumsal imajına duyarlı, topluma ve çevreye saygılı bir firma olmaktır.

# Vizyonumuz

Çözümün bir parçası olarak sektörüne yön veren, global ölçekli lider firma olmaktır.

# Değerlerimiz

Müşterilerimiz  
İçin Fark  
Yaratırız

Takımın  
Gücüne  
İnanırız

Adil ve  
Saygılı  
Davranırız

Topluma ve  
Çevreye  
Değer  
Katarız

Normlarımızı  
ve Kendimizi  
Sürekli  
Geliştiririz

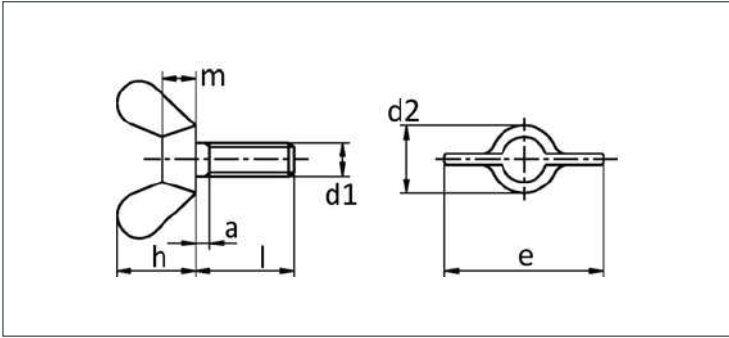
**CIVATA GRUBU**

BOLTS

## KELEBEK BAŞLI CIVATA

WING BOLTS FLÜGELSCHRAUBEN

WING BOLTS FLÜGELSCHRAUBEN



|                                                                                                                  |            |                                      |
|------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                           |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>316</b>                           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>DIN17100</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |     |       | TECHNICAL INFORMATIONS |       |       | TECHNISCHE INFORMATION |       |       |
|-----------------|-----|-------|------------------------|-------|-------|------------------------|-------|-------|
| d (d1)          |     | M3    | M4                     | M5    | M6    | M8                     | M10   | M12   |
| p               |     |       | 0,70                   | 0,80  | 1,00  | 1,25                   | 1,50  | 1,75  |
| e               | max | 17,60 | 20,00                  | 26,00 | 33,00 | 39,00                  | 51,00 | 65,00 |
|                 | min |       | 18,00                  | 24,00 | 30,00 | 36,00                  | 48,00 | 62,00 |
| d1 (d3)         | max | 8,00  | 7,00                   | 9,00  | 11,00 | 12,50                  | 16,50 | 19,50 |
|                 | min |       | 5,50                   | 7,50  | 9,00  | 10,50                  | 14,50 | 17,50 |
| m               | max |       | 4,60                   | 6,50  | 8,00  | 10,00                  | 12,00 | 14,00 |
|                 | min |       | 3,20                   | 4,00  | 5,00  | 6,50                   | 8,00  | 10,00 |
| h               | max |       | 10,50                  | 13,00 | 17,00 | 20,00                  | 25,00 | 33,50 |
|                 | min |       | 8,50                   | 11,00 | 15,00 | 18,00                  | 23,00 | 31,00 |
|                 |     |       |                        |       |       |                        |       |       |
|                 |     |       |                        |       |       |                        |       |       |
|                 |     |       |                        |       |       |                        |       |       |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

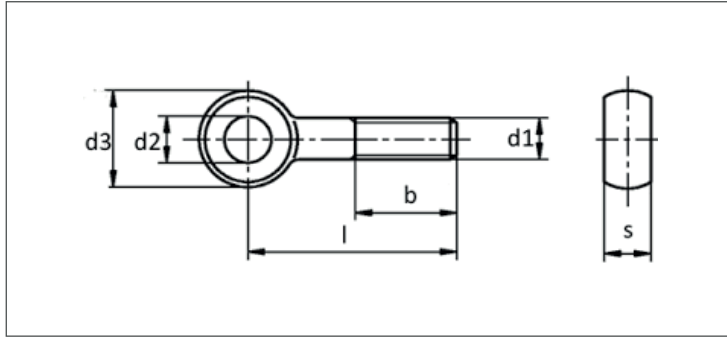
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# GÖZLÜ CIVATA

EYEBOLTS

RINGSCHRAUBEN



| ISO                                                                                                              | UNI | DIN                         |
|------------------------------------------------------------------------------------------------------------------|-----|-----------------------------|
| -                                                                                                                | -   | 444                         |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | ISO 898-1<br>DIN ISO 4759-1 |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d1     |              | M5           | M6    | M8    | M10   | M12   |
|--------|--------------|--------------|-------|-------|-------|-------|
| p      |              | 0,80         | 1,00  | 1,25  | 1,50  | 1,75  |
| b +2 P | 1)           | 16,00        | 18,00 | 22,00 | 26,00 | 30,00 |
|        | 2)           |              |       | 28,00 | 32,00 | 36,00 |
|        | 3)           |              |       |       |       | 49,00 |
| d2     | H9 5)        | 5,00         | 6,00  | 8,00  | 10,00 | 12,00 |
| d3     | max          | 12,00        | 14,00 | 18,00 | 20,00 | 25,00 |
|        | min          | Type A       | 10,90 | 12,90 | 16,90 | 18,70 |
|        |              | Type C and B | 11,57 | 13,57 | 17,57 | 19,48 |
| r      | ≈            | 2,50         | 4,00  | 4,00  | 4,00  | 6,00  |
| s      | Type A       | max          | 8,00  | 9,00  | 11,00 | 14,00 |
|        |              | min          | 7,52  | 8,52  | 10,30 | 13,30 |
|        | Type B and C | max          | 6,00  | 7,00  | 9,00  | 12,00 |
|        |              | min          | 5,88  | 6,85  | 8,85  | 11,82 |

| l   | Type A |        | Type B |        | Type C |        | M5                   | M6    | M8    | M10    | M12    |
|-----|--------|--------|--------|--------|--------|--------|----------------------|-------|-------|--------|--------|
|     | min    | max    | min    | max    | min    | max    | Weight /Ağırlık gr/p |       |       |        |        |
| 30  | 28,95  | 31,05  | 29,35  | 30,65  | 29,60  | 30,40  | 7,93                 |       |       |        |        |
| 35  | 33,75  | 36,25  | 34,20  | 35,80  | 34,50  | 35,50  | 8,70                 | 12,60 |       |        |        |
| 40  | 38,75  | 41,25  | 39,20  | 40,80  | 39,50  | 40,50  | 9,47                 | 13,70 | 25,00 |        |        |
| 45  | 43,75  | 46,25  | 44,20  | 45,80  | 44,50  | 45,50  | 10,30                | 14,80 | 26,90 | 36,00  |        |
| 50  | 48,75  | 51,25  | 49,20  | 50,80  | 49,50  | 50,50  | 11,00                | 15,90 | 28,90 | 39,10  |        |
| 55  | 53,50  | 56,50  | 54,05  | 55,95  | 54,40  | 55,60  | 11,80                | 17,00 | 30,90 | 42,20  | 67,00  |
| 60  | 58,50  | 61,50  | 59,05  | 60,95  | 59,40  | 60,60  | 12,60                | 18,10 | 32,80 | 45,30  | 71,40  |
| 65  | 63,50  | 66,50  | 64,05  | 65,95  | 64,40  | 65,60  | 13,30                | 19,20 | 34,80 | 48,40  | 75,80  |
| 70  | 68,50  | 71,50  | 69,05  | 70,95  | 69,40  | 70,60  | 14,10                | 20,30 | 36,80 | 51,50  | 80,30  |
| 75  | 73,50  | 76,50  | 74,05  | 75,95  | 74,40  | 75,60  | 14,90                | 21,50 | 38,80 | 54,60  | 84,80  |
| 80  | 78,50  | 81,50  | 79,05  | 80,95  | 79,40  | 80,60  | 15,70                | 22,60 | 40,70 | 57,60  | 89,20  |
| 90  | 88,25  | 91,75  | 88,90  | 91,10  | 89,30  | 90,70  |                      | 23,70 | 44,70 | 63,80  | 98,10  |
| 100 | 98,25  | 101,75 | 98,90  | 101,10 | 99,30  | 100,70 |                      |       | 48,60 | 70,00  | 106,00 |
| 110 | 108,25 | 111,75 | 108,90 | 111,10 | 109,30 | 110,70 |                      |       | 52,60 | 76,10  | 115,00 |
| 120 | 118,25 | 121,75 | 118,90 | 121,10 | 119,30 | 120,70 |                      |       | 56,50 | 82,30  | 124,00 |
| 130 | 128,00 | 132,00 | 128,75 | 131,25 | 129,20 | 130,80 |                      |       | 60,50 | 88,40  | 133,00 |
| 140 | 138,00 | 142,00 | 138,75 | 141,25 | 139,20 | 140,80 |                      |       | 64,40 | 94,50  | 142,00 |
| 150 | 148,00 | 152,00 | 148,75 | 151,25 | 149,20 | 150,80 |                      |       |       | 101,00 | 151,00 |
| 160 | 156,00 | 164,00 | 158,75 | 161,25 | 159,20 | 160,80 |                      |       |       |        | 160,00 |
| 180 | 176,00 | 184,00 | 178,75 | 181,25 | 179,20 | 180,80 |                      |       |       |        | 178,00 |
| 200 | 195,40 | 204,60 | 198,55 | 241,45 | 199,10 | 200,90 |                      |       |       |        | 195,00 |
| 220 | 215,40 | 224,60 | 218,55 | 221,45 | 219,10 | 220,90 |                      |       |       |        | 211,00 |
| 240 | 235,40 | 244,60 | 238,55 | 241,45 | 239,10 | 240,90 |                      |       |       |        | 229,00 |
| 260 | 254,80 | 265,20 | 258,40 | 261,60 | 258,90 | 261,00 |                      |       |       |        |        |
| 280 | 274,80 | 285,20 | 278,40 | 281,60 | 278,90 | 281,00 |                      |       |       |        |        |
| 300 | 294,80 | 305,20 | 298,40 | 301,60 | 298,90 | 301,00 |                      |       |       |        |        |
|     |        |        |        |        |        |        |                      |       |       |        |        |
|     |        |        |        |        |        |        |                      |       |       |        |        |
|     |        |        |        |        |        |        |                      |       |       |        |        |

Değerler milimetre olarak verilmiştir.

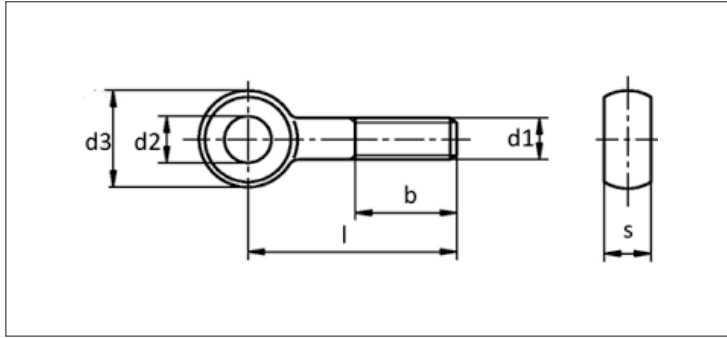
Values are given in millimeters.

Werte sind in millimetern angegeben.

# GÖZLÜ CIVATA

EYEBOLTS

RINGSCHRAUBEN



| ISO                                                                                                              | UNI | DIN                                   |
|------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------|
| -                                                                                                                | -   | <b>444-2</b>                          |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 898-1<br/>DIN ISO<br/>4759</b> |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d1     |              | M16          | M20   | M24   | M27   |
|--------|--------------|--------------|-------|-------|-------|
| p      |              | 2,00         | 2,50  | 3,00  | 3,00  |
| b +2 P | 1)           | 38,00        | 46,00 | 54,00 | 60,00 |
|        | 2)           | 44,00        | 52,00 | 60,00 | 66,00 |
|        | 3)           | 57,00        | 65,00 | 73,00 | 79,00 |
| d2     | H9 5)        | 16,00        | 18,00 | 22,00 | 24-25 |
|        | max          | 32,00        | 40,00 | 45,00 | 50,00 |
| d3     | min          | Type A       | 30,40 | 38,40 | 43,40 |
|        |              | Type C and B | 31,38 | 39,38 | 44,38 |
| r      | ≈            | 6,00         | 6,00  | 10,00 | 10,00 |
| s      | Type A       | max          | 19,00 | 24,00 | 28,00 |
|        |              | min          | 18,16 | 23,16 | 27,16 |
|        | Type B and C | max          | 17,00 | 22,00 | 25,00 |
|        |              | min          | 16,82 | 21,79 | 24,79 |

| l   | Type A |        | Type B |        | Type C |        | M16                  | M20    | M24     | M27     |
|-----|--------|--------|--------|--------|--------|--------|----------------------|--------|---------|---------|
|     | min    | max    | min    | max    | min    | max    | Weight /Ağırlık gr/p |        |         |         |
| 30  | 28,95  | 31,05  | 29,35  | 30,65  | 29,60  | 30,40  |                      |        |         |         |
| 35  | 33,75  | 36,25  | 34,20  | 35,80  | 34,50  | 35,50  |                      |        |         |         |
| 40  | 38,75  | 41,25  | 39,20  | 40,80  | 39,50  | 40,50  |                      |        |         |         |
| 45  | 43,75  | 46,25  | 44,20  | 45,80  | 44,50  | 45,50  |                      |        |         |         |
| 50  | 48,75  | 51,25  | 49,20  | 50,80  | 49,50  | 50,50  |                      |        |         |         |
| 55  | 53,50  | 56,50  | 54,05  | 55,95  | 54,40  | 55,60  |                      |        |         |         |
| 60  | 58,50  | 61,50  | 59,05  | 60,95  | 59,40  | 60,60  |                      |        |         |         |
| 65  | 63,50  | 66,50  | 64,05  | 65,95  | 64,40  | 65,60  |                      |        |         |         |
| 70  | 68,50  | 71,50  | 69,05  | 70,95  | 69,40  | 70,60  | 149,00               |        |         |         |
| 75  | 73,50  | 76,50  | 74,05  | 75,95  | 74,40  | 75,60  | 157,00               |        |         |         |
| 80  | 78,50  | 81,50  | 79,05  | 80,95  | 79,40  | 80,60  | 164,00               |        |         |         |
| 90  | 88,25  | 91,75  | 88,90  | 91,10  | 89,30  | 90,70  | 180,00               |        |         |         |
| 100 | 98,25  | 101,75 | 98,90  | 101,10 | 99,30  | 100,70 | 196,00               | 334,00 | 454,00  |         |
| 110 | 108,25 | 111,75 | 108,90 | 111,10 | 109,30 | 110,70 | 212,00               | 359,00 | 489,00  |         |
| 120 | 118,25 | 121,75 | 118,90 | 121,10 | 119,30 | 120,70 | 228,00               | 383,00 | 524,00  | 618,00  |
| 130 | 128,00 | 132,00 | 128,75 | 131,25 | 129,20 | 130,80 | 244,00               | 408,00 | 560,00  | 663,00  |
| 140 | 138,00 | 142,00 | 138,75 | 141,25 | 139,20 | 140,80 | 259,00               | 433,00 | 596,00  | 708,00  |
| 150 | 148,00 | 152,00 | 148,75 | 151,25 | 149,20 | 150,80 | 275,00               | 457,00 | 631,00  | 753,00  |
| 160 | 156,00 | 164,00 | 158,75 | 161,25 | 159,20 | 160,80 | 291,00               | 482,00 | 667,00  | 798,00  |
| 180 | 176,00 | 184,00 | 178,75 | 181,25 | 179,20 | 180,80 | 322,00               | 531,00 | 738,00  | 888,00  |
| 200 | 195,40 | 204,60 | 198,55 | 201,45 | 199,10 | 200,90 | 354,00               | 581,00 | 809,00  | 978,00  |
| 220 | 215,40 | 224,60 | 218,55 | 221,45 | 219,10 | 220,90 | 383,00               | 624,00 | 868,00  | 1060,00 |
| 240 | 235,40 | 244,60 | 238,55 | 241,45 | 239,10 | 240,90 | 414,00               | 674,00 | 939,00  | 1140,00 |
| 260 | 254,80 | 265,20 | 258,40 | 261,60 | 258,90 | 261,00 |                      | 723,00 | 1010,00 | 1230,00 |
| 280 | 274,80 | 285,20 | 278,40 | 281,60 | 278,90 | 281,00 |                      |        |         | 1320,00 |
| 300 | 294,80 | 305,20 | 298,40 | 301,60 | 298,90 | 301,00 |                      |        |         | 1400,00 |
|     |        |        |        |        |        |        |                      |        |         |         |
|     |        |        |        |        |        |        |                      |        |         |         |
|     |        |        |        |        |        |        |                      |        |         |         |

Değerler milimetre olarak verilmiştir.

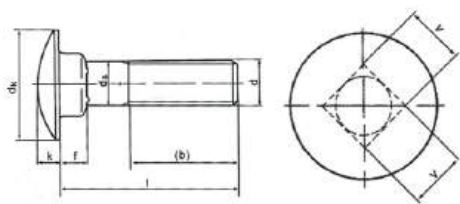
Values are given in millimeters.

Werte sind in millimetern angegeben.

## YUVARLAK BAŞLI DİBİ DÖRT KÖŞE CIVATA

## MUSHROOM HEAD SQUARE NECK BOLTS

## FLACHRUNDSCHRAUBE MIT VIERKANTANSATZ



# ISO

**UNI**

# DIN

**8677**

**5731**

603

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1**  
**ISO 4759-1**

| TEKNİK BİLGİLER |                     | TECHNICAL INFORMATIONS |       |       | TECHNISCHE INFORMATION |       |
|-----------------|---------------------|------------------------|-------|-------|------------------------|-------|
| d               |                     | M6                     | M8    | M10   | M12                    | M16   |
| p               |                     | 1,25                   | 1,50  | 1,75  | 2,00                   | 2,50  |
| k               | max                 | 3,88                   | 4,88  | 5,38  | 6,95                   | 8,95  |
|                 | min                 | 3,12                   | 4,12  | 4,62  | 6,05                   | 8,05  |
| d2 max (dk)     | max                 | 16,55                  | 20,65 | 24,65 | 30,65                  | 38,80 |
|                 | min                 | 15,45                  | 19,35 | 23,35 | 29,35                  | 37,20 |
| c (f)           | max                 | 4,60                   | 5,60  | 6,60  | 8,75                   | 12,90 |
|                 | min                 | 3,40                   | 4,40  | 5,40  | 7,25                   | 11,10 |
| v               | max                 | 6,48                   | 8,58  | 10,58 | 12,70                  | 16,70 |
|                 | min                 | 5,52                   | 7,42  | 9,42  | 11,30                  | 15,30 |
| b               | I ≤ 125             | 18,00                  | 22,00 | 26,00 | 30,00                  | 38,00 |
|                 | I >125 (125<I≤ 200) | 24,00                  | 28,00 | 32,00 | 36,00                  | 44,00 |
|                 | I > 200             |                        | 41,00 | 45,00 | 49,00                  | 57,00 |

[illegible]

Değerler milimetre olarak verilmiştir.

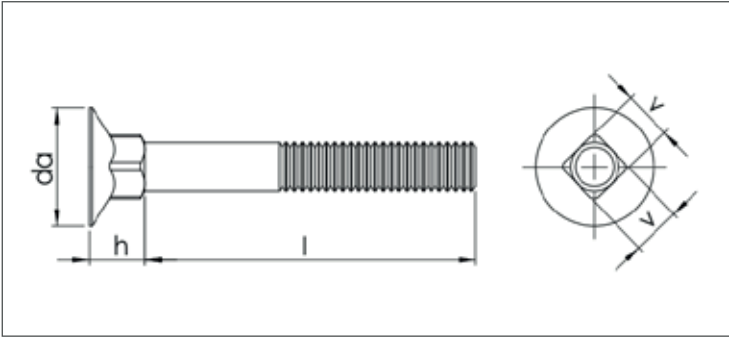
Values are given in millimeters.

Werte sind in millimetern angegeben.

## BIÇAK CIVATASI

FLAT COUNTERSUNK SQUARE NECK BOLTS      SENKSCHRAUBEN MIT HOHEM VIERKANTANSATZ

FLAT COUNTERSUNK SQUARE NECK BOLTS      SENKSCHRAUBEN MIT HOHEM VIERKANTANSATZ



|                                                                                                                  |            |                                       |
|------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                            |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>605</b>                            |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>ISO 898-1</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |     | TECHNICAL INFORMATIONS |       |       |       | TECHNISCHE INFORMATION |       |       |
|-----------------|-----|------------------------|-------|-------|-------|------------------------|-------|-------|
| d               |     | M5                     | M6    | M8    | M10   | M12                    | M16   | M20   |
| p               |     | 0,80                   | 1,00  | 1,25  | 1,50  | 1,75                   | 2,00  | 2,50  |
| b               | 1)  |                        | 18,00 | 22,00 | 26,00 | 30,00                  | 38,00 | 46,00 |
|                 | 2)  |                        | 24,00 | 28,00 | 32,00 | 36,00                  | 44,00 | 52,00 |
|                 | 3)  |                        |       | 41,00 | 45,00 |                        |       |       |
| h (f)           | min | 5,60                   | 6,55  | 8,55  | 9,45  | 13,45                  | 16,45 | 21,35 |
|                 | max | 6,40                   | 7,45  | 9,45  | 11,45 | 14,55                  | 17,55 | 22,65 |
| da (dk)         | min | 12,55                  | 15,45 | 19,35 | 23,35 | 27,35                  | 37,35 | 43,25 |
|                 | max | 13,45                  | 16,55 | 20,65 | 24,65 | 28,65                  | 38,65 | 44,75 |
| v               | min | 4,52                   | 5,52  | 7,42  | 9,42  | 11,32                  | 15,32 | 19,22 |
|                 | max | 5,48                   | 6,48  | 8,58  | 10,58 | 12,68                  | 16,68 | 20,78 |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

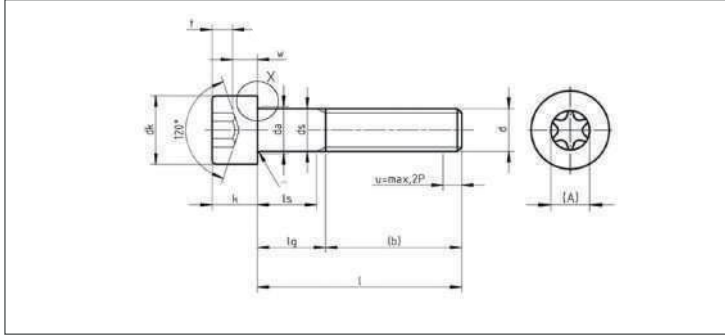
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# SOKET BAŞLI İMBUS CIVATA

HEXAGON SOCKET HEAD CAP SCREWS

ZYLINDERSCHRAUBE MIT INNENSECHSKANT



**EN ISO**

**UNI**

**DIN**

**4762**

**-**

**912**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1  
ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d  |                     | M3 <sup>(1)</sup> | M4 <sup>(1)</sup> | M5    | M6    | M8    | M10   | M12   | M14   | M16   | M18   | M20   |
|----|---------------------|-------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| p  |                     | 0,50              | 0,70              | 0,80  | 1,00  | 1,25  | 1,50  | 1,75  | 2,00  | 2,50  | 2,50  | 2,50  |
| dk | (Plain Heads) max   | 5,50              | 7,00              | 8,50  | 10,00 | 13,00 | 16,00 | 18,00 | 21,00 | 24,00 | 27,00 | 30,00 |
|    | (Knurled Heads) max | 5,68              | 7,72              | 8,72  | 10,22 | 13,27 | 16,27 | 18,27 | 21,33 | 24,33 | 27,33 | 30,33 |
|    | min                 | 5,32              | 6,78              | 8,28  | 9,78  | 12,73 | 15,73 | 17,73 | 20,67 | 23,67 | 26,67 | 29,67 |
| k  | max                 | 3,00              | 4,00              | 5,00  | 6,00  | 8,00  | 10,00 | 12,00 | 14,00 | 16,00 | 18,00 | 20,00 |
|    | min                 | 2,86              | 3,82              | 4,82  | 5,70  | 7,64  | 9,64  | 11,57 | 13,57 | 15,57 | 17,57 | 19,48 |
|    | nominal             | 2,50              | 3,00              | 4,00  | 5,00  | 6,00  | 8,00  | 10,00 | 12,00 | 14,00 | 14,00 | 17,00 |
| s  | max                 | 2,58              | 3,08              | 4,09  | 5,14  | 6,14  | 8,17  | 10,17 | 12,21 | 14,21 | 14,21 | 17,23 |
|    | min                 | 2,52              | 3,02              | 4,02  | 5,02  | 6,02  | 8,02  | 10,02 | 12,03 | 14,03 | 14,03 | 17,05 |
| e  | min                 | 2,87              | 3,44              | 4,58  | 5,72  | 6,86  | 9,15  | 11,43 | 13,72 | 16,00 | 16,00 | 19,44 |
| t  | min                 | 1,30              | 2,00              | 2,50  | 3,00  | 4,00  | 5,00  | 6,00  | 7,00  | 8,00  | 9,00  | 10,00 |
| b  |                     | 18,00             | 20,00             | 22,00 | 24,00 | 28,00 | 32,00 | 36,00 | 40,00 | 44,00 | 48,00 | 52,00 |

| l   | min     | max     | M3   | M4   | M5    | M6    | M8    | M10    | M12    | M14    | M16    | M18    | M20    |
|-----|---------|---------|------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 6   | 5,76    | 6,24    | 0,71 | 1,50 | 2,20  |       |       |        |        |        |        |        |        |
| 8   | 7,71    | 8,29    | 0,80 | 1,65 | 2,45  | 4,33  |       |        |        |        |        |        |        |
| 10  | 9,71    | 10,29   | 0,88 | 1,80 | 2,70  | 4,70  | 10,30 | 17,90  |        |        |        |        |        |
| 12  | 11,65   | 12,35   | 0,96 | 1,95 | 2,95  | 5,07  | 10,90 | 18,90  |        |        |        |        |        |
| 14  | 13,65   | 14,35   | 1,05 | 2,10 | 3,20  | 5,44  | 11,50 | 19,90  |        |        |        |        |        |
| 16  | 15,65   | 16,35   | 1,16 | 2,25 | 3,45  | 5,75  | 12,10 | 20,90  | 28,50  |        |        |        |        |
| 18  | 17,58   | 18,42   | 1,26 | 2,45 | 3,70  | 6,12  | 13,30 | 21,90  |        |        |        |        |        |
| 20  | 19,58   | 20,42   | 1,36 | 2,65 | 4,01  | 6,53  | 13,40 | 22,90  | 32,10  | 43,00  | 63,90  |        |        |
| 22  | 21,58   | 22,42   | 1,46 | 2,90 | 4,32  | 6,90  | 14,00 | 23,90  | 33,90  | 45,00  | 66,90  |        |        |
| 25  | 24,58   | 25,42   | 1,61 | 3,15 | 4,78  | 7,59  | 15,00 | 25,40  | 35,70  | 48,00  | 71,30  |        |        |
| 30  | 29,58   | 30,42   | 1,86 | 3,65 | 5,55  | 8,30  | 16,90 | 27,90  | 39,30  | 53,00  | 77,80  | 111,00 | 128,00 |
| 35  | 34,50   | 35,50   | 2,11 | 4,15 | 6,32  | 9,91  | 18,90 | 30,40  | 42,90  | 58,00  | 84,40  | 120,00 | 139,00 |
| 40  | 39,50   | 40,50   | 2,36 | 4,65 | 7,09  | 11,00 | 20,90 | 32,90  | 46,50  | 63,00  | 91,00  | 129,00 | 150,00 |
| 45  | 44,50   | 45,50   | 2,61 | 5,15 | 7,86  | 12,10 | 22,90 | 36,10  | 50,10  | 68,00  | 97,60  | 138,00 | 161,00 |
| 50  | 49,50   | 50,50   | 2,86 | 5,65 | 8,63  | 13,20 | 24,90 | 39,30  | 54,50  | 73,00  | 106,00 | 147,00 | 172,00 |
| 55  | 54,40   | 55,60   |      | 6,15 | 9,40  | 14,30 | 26,90 | 42,50  | 58,90  | 78,00  | 114,00 | 156,00 | 183,00 |
| 60  | 59,40   | 60,60   |      | 6,65 | 10,20 | 15,40 | 28,90 | 45,70  | 63,40  | 84,00  | 122,00 | 165,00 | 194,00 |
| 65  | 64,40   | 65,60   |      | 7,15 | 11,00 | 16,50 | 31,00 | 48,90  | 67,80  | 90,00  | 130,00 | 174,00 | 205,00 |
| 70  | 69,40   | 70,60   |      | 7,65 | 11,80 | 17,60 | 33,00 | 52,10  | 71,30  | 96,00  | 138,00 | 183,00 | 216,00 |
| 75  | 74,40   | 75,60   |      | 8,15 | 12,60 | 18,70 | 35,00 | 55,30  | 75,80  | 102,00 | 146,00 | 193,00 | 228,00 |
| 80  | 79,40   | 80,60   |      | 8,65 | 13,40 | 19,80 | 37,00 | 58,50  | 80,20  | 108,00 | 154,00 | 203,00 | 241,00 |
| 85  | 84,30   | 85,70   |      | 9,15 | 14,20 | 20,90 | 39,00 | 61,70  | 84,70  | 114,00 | 162,00 | 213,00 | 252,00 |
| 90  | 89,30   | 90,70   |      | 9,65 | 15,00 | 22,00 | 41,00 | 64,90  | 89,10  | 120,00 | 170,00 | 223,00 | 266,00 |
| 95  | 94,30   | 95,70   |      |      | 15,80 | 23,10 | 43,00 | 68,10  | 93,60  | 126,00 | 178,00 | 233,00 | 278,00 |
| 100 | 99,30   | 100,70  |      |      | 16,60 | 24,20 | 45,00 | 71,20  | 98,00  | 132,00 | 186,00 | 243,00 | 291,00 |
| 110 | 109,30  | 110,70  |      |      | 17,40 | 26,40 | 49,00 | 77,50  | 106,90 | 144,00 | 202,00 | 263,00 | 316,00 |
| 120 | 119,30  | 120,70  |      |      |       | 28,60 | 53,00 | 83,80  | 115,80 | 156,00 | 218,00 | 283,00 | 341,00 |
| 125 | 124,200 | 125,800 |      |      |       |       |       | 87,000 |        |        |        |        |        |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

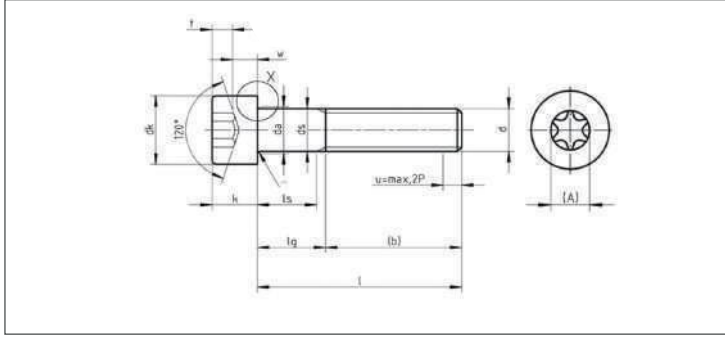
## ZYLINDERSCHRAUBE MIT INNENSECHSKANT

[illegible]

# SOKET BAŞLI İMBUS CIVATA

HEXAGON SOCKET HEAD CAP SCREWS

ZYLINDERSCHRAUBE MIT INNENSECHSKANT



**EN ISO**

**UNI**

**DIN**

**4762**

**-**

**912**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1**  
**ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d              |                     | M22   | M24   | M27   | M30   | M33   | M36   | M39   | M42   | M45    | M48    |
|----------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| p              |                     | 2,50  | 3,00  | 3,00  | 3,50  | 3,50  | 4,00  | 4,00  | 4,50  | 4,50   | 5,00   |
| d <sub>k</sub> | (Plain Heads) max   | 33,00 | 36,00 | 40,00 | 45,00 | 50,00 | 54,00 |       | 63,00 |        | 72,00  |
|                | (Knurled Heads) max | 33,39 | 36,39 | 40,39 | 45,39 | 50,39 | 54,46 |       | 63,46 |        | 72,46  |
|                | min                 | 32,61 | 35,61 | 39,61 | 44,61 | 49,61 | 53,53 | 58,00 | 62,54 | 68,00  | 71,54  |
| k              | max                 | 22,00 | 24,00 | 27,00 | 30,00 | 33,00 | 36,00 |       | 42,00 |        | 48,00  |
|                | min                 | 21,48 | 23,48 | 26,67 | 29,48 | 32,61 | 35,61 | 39,00 | 41,61 | 45,00  | 47,38  |
|                | nominal             | 17,00 | 19,00 | 19,00 | 22,00 | 24,00 | 27,00 |       | 32,00 |        | 36,00  |
| s              | max                 | 17,23 | 19,27 | 19,27 | 22,27 | 24,27 | 27,27 |       | 32,33 |        | 36,33  |
|                | min                 | 17,05 | 19,06 | 19,06 | 22,06 | 24,06 | 27,06 | 27,00 | 32,08 | 32,00  | 36,08  |
| e              | min                 | 19,44 | 21,73 | 21,73 | 25,15 | 27,43 | 30,85 |       | 36,57 |        | 41,13  |
| t              | min                 | 11,00 | 12,00 | 13,50 | 15,50 | 18,00 | 19,00 | 21,00 | 24,00 | 26,00  | 28,00  |
| b              |                     | 56,00 | 60,00 | 66,00 | 72,00 | 78,00 | 84,00 | 90,00 | 96,00 | 100,00 | 108,00 |

| l   | min    | max    | M22    | M24     | M27     | M30     | M33     | M36     | M39     | M42     | M45 | M48     |
|-----|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-----|---------|
| 35  | 34,50  | 35,50  | 211,00 |         |         |         |         |         |         |         |     |         |
| 40  | 39,50  | 40,50  | 224,00 | 270,00  |         |         |         |         |         |         |     |         |
| 45  | 44,50  | 45,50  | 237,00 | 285,00  | 330,00  | 500,00  |         |         |         |         |     |         |
| 50  | 49,50  | 50,50  | 250,00 | 300,00  | 352,00  | 527,00  |         |         |         |         |     |         |
| 55  | 54,40  | 55,60  | 263,00 | 316,00  | 374,00  | 554,00  |         |         |         |         |     |         |
| 60  | 59,40  | 60,60  | 276,00 | 330,00  | 396,00  | 581,00  |         |         |         |         |     |         |
| 65  | 64,40  | 65,60  | 291,00 | 345,00  | 418,00  | 608,00  |         |         |         |         |     |         |
| 70  | 69,40  | 70,60  | 306,00 | 363,00  | 440,00  | 635,00  | 770,00  | 990,00  |         |         |     |         |
| 75  | 74,40  | 75,60  | 321,00 | 379,00  | 462,00  | 662,00  |         |         |         |         |     |         |
| 80  | 79,40  | 80,60  | 336,00 | 399,00  | 484,00  | 690,00  | 830,00  | 1070,00 | 1270,00 | 1590,00 |     |         |
| 90  | 89,30  | 90,70  | 366,00 | 435,00  | 529,00  | 745,00  | 900,00  | 1150,00 | 1350,00 | 1690,00 |     |         |
| 100 | 99,30  | 100,70 | 396,00 | 471,00  | 574,00  | 800,00  | 970,00  | 1230,00 | 1430,00 | 1790,00 |     | 2460,00 |
| 110 | 109,30 | 110,70 | 426,00 | 507,00  | 619,00  | 855,00  | 1040,00 | 1310,00 | 1510,00 | 1890,00 |     |         |
| 120 | 119,30 | 120,70 | 456,00 | 543,00  | 664,00  | 910,00  | 1110,00 | 1390,00 | 1590,00 | 2000,00 |     | 2740,00 |
| 130 | 129,20 | 130,80 | 486,00 | 579,00  | 709,00  | 965,00  | 1180,00 | 1470,00 | 1650,00 | 2100,00 |     |         |
| 140 | 139,20 | 140,80 | 516,00 | 615,00  | 754,00  | 1020,00 | 1250,00 | 1550,00 | 1740,00 | 2210,00 |     | 3020,00 |
| 150 | 149,20 | 150,80 | 546,00 | 651,00  | 799,00  | 1075,00 | 1320,00 | 1630,00 | 1830,00 | 2320,00 |     |         |
| 160 | 159,20 | 160,80 | 576,00 | 687,00  | 844,00  | 1135,00 | 1390,00 | 1710,00 | 1920,00 | 2420,00 |     | 3300,00 |
| 170 | 169,20 | 170,80 | 606,00 | 723,00  | 889,00  | 1185,00 | 1460,00 | 1790,00 | 2010,00 | 2530,00 |     | 3445,00 |
| 180 | 179,20 | 180,80 | 636,00 | 759,00  | 934,00  | 1240,00 | 1530,00 | 1870,00 | 2100,00 | 2640,00 |     | 3590,00 |
| 190 | 189,10 | 190,90 | 666,00 | 795,00  | 979,00  | 1295,00 | 1600,00 | 1950,00 | 2190,00 | 2750,00 |     |         |
| 200 | 199,10 | 200,90 | 696,00 | 831,00  | 1024,00 | 1350,00 | 1670,00 | 2030,00 | 2280,00 | 2860,00 |     | 3870,00 |
| 210 | 209,10 | 210,90 | 726,00 | 867,00  | 1069,00 | 1405,00 |         |         | 2370,00 |         |     |         |
| 220 | 219,10 | 220,90 | 756,00 | 903,00  | 1114,00 | 1460,00 | 1810,00 | 2190,00 | 2460,00 | 3080,00 |     |         |
| 230 | 229,10 | 230,90 | 786,00 | 939,00  | 1159,00 | 1515,00 |         |         | 2550,00 |         |     |         |
| 240 | 139,10 | 240,90 | 816,00 | 975,00  | 1204,00 | 1570,00 | 1950,00 | 2350,00 | 2640,00 | 3300,00 |     |         |
| 250 | 248,95 | 251,05 | 846,00 | 1011,00 | 1249,00 | 1625,00 |         |         | 2730,00 |         |     |         |
| 260 | 258,95 | 261,05 | 876,00 | 1047,00 | 1294,00 | 1680,00 | 2090,00 | 2510,00 | 2820,00 | 3520,00 |     |         |
| 270 | 268,95 | 271,05 | 906,00 | 1083    | 1339,00 | 1735,00 |         |         | 2910,00 |         |     |         |
| 280 | 278,95 | 281,05 | 936,00 | 1119,00 | 1384,00 | 1790,00 | 2230,00 | 2670,00 | 3000,00 | 3740,00 |     |         |
| 290 | 288,95 | 291,05 | 966,00 | 1155,00 | 1429,00 | 1845,00 |         |         | 3090,00 |         |     |         |
| 300 | 298,95 | 301,05 | 996,00 | 1191,00 | 1474,00 | 1900,00 | 2370,00 | 2830,00 | 3180,00 | 3960,00 |     |         |

Değerler milimetre olarak verilmiştir.

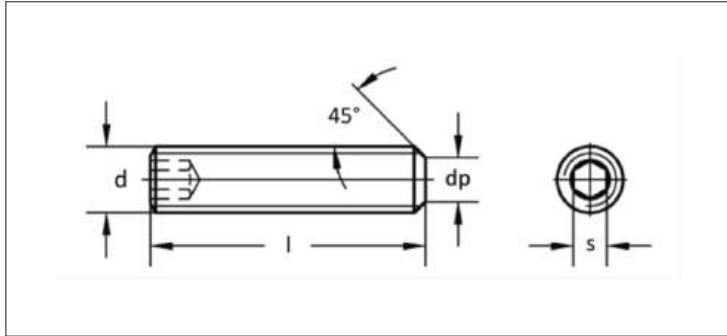
Values are given in millimeters.

Werte sind in millimetern angegeben.

## ALYAN BAŞLI SETSKUR

## FLAT POINT HEXAGON SOCKET SET SCREWS

## FLACHSPITZ-INNENSECHSKANT-STELLSCHRAUBEN



|                                                                                                                  |             |                                   |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|
| <b>DIN EN<br/>ISO</b>                                                                                            | <b>UNI</b>  | <b>DIN</b>                        |
| <b>4026</b>                                                                                                      | <b>5923</b> | <b>913</b>                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>898-5</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |         | TECHNICAL INFORMATIONS |      |      |      |      | TECHNISCHE INFORMATION |      |       |       |
|-----------------|---------|------------------------|------|------|------|------|------------------------|------|-------|-------|
| d               |         | M3                     | M4   | M5   | M6   | M8   | M10                    | M12  | M14   | M16   |
| p               |         | 0,50                   | 0,70 | 0,80 | 1,00 | 1,25 | 1,50                   | 1,75 | 2,00  | 2,00  |
| d <sub>p</sub>  | max     | 2,00                   | 2,50 | 3,50 | 4,00 | 5,50 | 7,00                   | 8,50 | 10,00 | 12,00 |
|                 | min     | 1,75                   | 2,25 | 3,20 | 3,70 | 5,20 | 6,64                   | 8,14 | 9,64  | 11,57 |
| s               | nominal | 1,50                   | 2,00 | 2,50 | 3,00 | 4,00 | 5,00                   | 6,00 | 6,00  | 8,00  |
|                 | max     | 1,54                   | 2,04 | 2,56 | 3,08 | 4,09 | 5,09                   | 6,09 | 6,09  | 8,11  |
|                 | min     | 1,52                   | 2,02 | 2,52 | 3,02 | 4,02 | 5,02                   | 6,02 | 6,02  | 8,02  |
| e               | min     | 1,73                   | 2,30 | 2,87 | 3,44 | 4,58 | 5,72                   | 6,86 | 6,86  | 9,15  |
| t               | 3) min  | 1,20                   | 1,50 | 2,00 | 2,00 | 3,00 | 4,00                   | 4,80 | 5,60  | 6,40  |
|                 | 4) min  | 2,00                   | 2,50 | 3,00 | 3,50 | 5,00 | 6,00                   | 8,00 | 9,00  | 10,00 |
|                 |         |                        |      |      |      |      |                        |      |       |       |
|                 |         |                        |      |      |      |      |                        |      |       |       |
|                 |         |                        |      |      |      |      |                        |      |       |       |

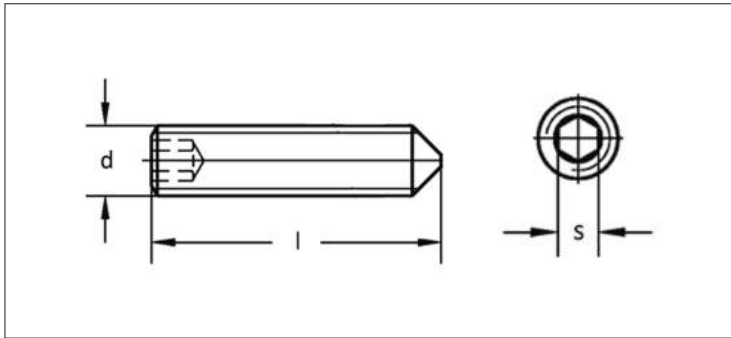
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## ALYAN BAŞLI SİVRİ UÇLU SETSKUR



|                                                                                                                  |             |                                   |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|
| <b>DIN EN<br/>ISO</b>                                                                                            | <b>UNI</b>  | <b>DIN</b>                        |
| <b>4027</b>                                                                                                      | <b>5927</b> | <b>914</b>                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>898-5</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |         | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |      |      |
|-----------------|---------|------------------------|------|------|------|------------------------|------|------|
| d               |         | M3                     | M4   | M5   | M6   | M8                     | M10  | M12  |
| p               |         | 0,50                   | 0,70 | 0,80 | 1,00 | 1,25                   | 1,50 | 1,75 |
| dt              | max     |                        |      |      | 1,50 | 2,00                   | 2,50 | 3,00 |
|                 | min     |                        |      |      | 0,90 | 1,40                   | 1,90 | 2,40 |
| s               | nominal | 1,50                   | 2,00 | 2,50 | 3,00 | 4,00                   | 5,00 | 6,00 |
|                 | max     | 1,54                   | 2,04 | 2,56 | 3,08 | 4,09                   | 5,09 | 6,09 |
|                 | min     | 1,52                   | 2,02 | 2,52 | 3,02 | 4,02                   | 5,02 | 6,02 |
| e               | min     | 1,73                   | 2,30 | 2,87 | 3,44 | 4,58                   | 5,72 | 6,86 |
| t               | 3) min  | 1,20                   | 1,50 | 2,00 | 2,00 | 3,00                   | 4,00 | 4,50 |
|                 | 4) min  | 2,00                   | 2,50 | 3,00 | 3,50 | 5,00                   | 6,00 | 8,00 |
|                 |         |                        |      |      |      |                        |      |      |
|                 |         |                        |      |      |      |                        |      |      |
|                 |         |                        |      |      |      |                        |      |      |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

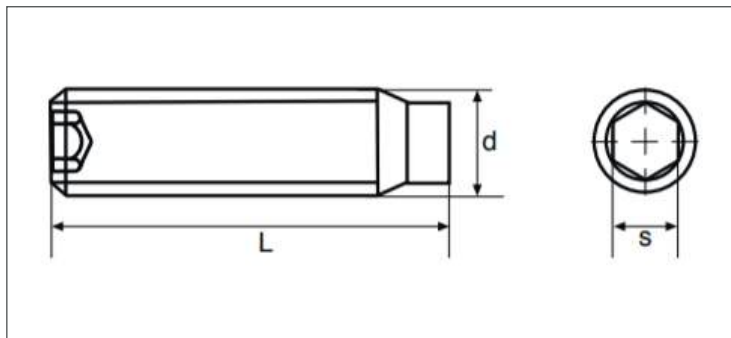
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# DOG POINT SETSKUR

## DOG POINT HEXAGON SOCKET SET SCREWS

## DOG POINT INNENSECHSKANT-STELLSCHRAUBEN



|                                                                                                                  |             |                                   |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|
| <b>DIN EN<br/>ISO</b>                                                                                            | <b>UNI</b>  | <b>DIN</b>                        |
| <b>4028</b>                                                                                                      | <b>5925</b> | <b>915</b>                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>898-5</b><br><b>ISO 4759-1</b> |

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

| d                  |         | M4   | M5   | M6   | M8   | M10  | M12  |
|--------------------|---------|------|------|------|------|------|------|
| p                  |         | 0,70 | 0,80 | 1,00 | 1,25 | 1,50 | 1,75 |
| dp                 | max     | 2,50 | 3,50 | 4,00 | 5,50 | 7,00 | 8,50 |
|                    | min     | 2,25 | 3,20 | 3,70 | 5,20 | 6,64 | 8,14 |
| s                  | nominal | 2,00 | 2,50 | 3,00 | 4,00 | 5,00 | 6,00 |
|                    | max     | 2,04 | 2,56 | 3,06 | 4,09 | 5,09 | 6,09 |
|                    | min     | 2,02 | 2,52 | 3,02 | 4,02 | 5,02 | 6,02 |
| e                  | min     | 2,30 | 2,87 | 3,44 | 4,58 | 5,72 | 6,86 |
| t                  | 3) min  | 1,50 | 2,00 | 2,00 | 3,00 | 4,00 | 4,80 |
|                    | 4) min  | 2,50 | 3,00 | 3,50 | 5,00 | 6,00 | 8,00 |
| Z(short dog point) | max     | 1,25 | 1,50 | 1,75 | 2,25 | 2,75 | 3,25 |
|                    | min     | 1,00 | 1,25 | 1,50 | 2,00 | 2,50 | 3,00 |
| Z(long dog point)  | max     | 2,25 | 2,75 | 3,25 | 4,30 | 5,30 | 6,30 |
|                    | min     | 2,00 | 2,50 | 3,00 | 4,00 | 5,00 | 6,00 |

[illegible]

Değerler milimetre olarak verilmiştir.

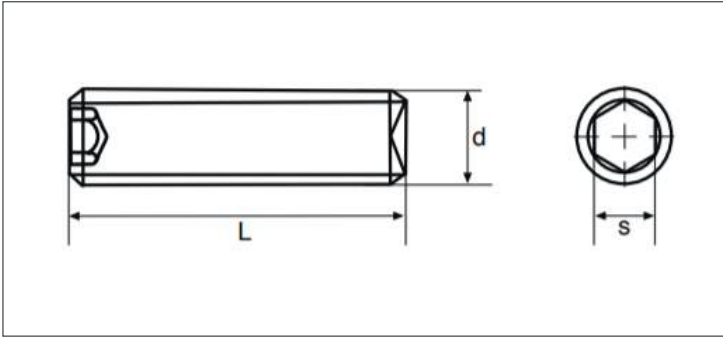
Values are given in millimeters.

Werte sind in millimetern angegeben.

# SETSKUR

## CUP POINT HEXAGON SOCKET SET SCREWS

## CUP POINT INNENSECHSKANT-STELLSCHRAUBEN



|                                                                                                                  |             |                                   |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|
| <b>DIN EN<br/>ISO</b>                                                                                            | <b>UNI</b>  | <b>DIN</b>                        |
| <b>4029</b>                                                                                                      | <b>5929</b> | <b>916</b>                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>898-5</b><br><b>ISO 4759-1</b> |

[illegible][illegible]

Değerler milimetre olarak verilmiştir.

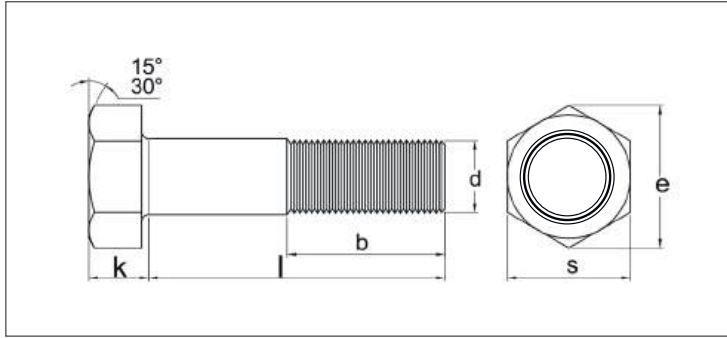
Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI METRİK DİŞ YARIM PASO CIVATA

HEXAGON HEAD BOLT METRIC PARTIAL THREAD

SECHSKANTSCHRAUBE MIT SCHAFT



**DIN EN  
ISO**

**UNI**

**DIN**

**4014**

**5737**

**931**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1  
ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d |                         | M4    | M5    | M6    | M7    | M8    | M10   | M12   | M14   | M16   | M18   | M20   | M22   | M24   |
|---|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| p |                         | 0,70  | 0,80  | 1,00  | 1,00  | 1,25  | 1,50  | 1,75  | 2,00  | 2,00  | 2,50  | 2,50  | 2,50  | 3,00  |
| s | max                     | 7,00  | 8,00  | 10,00 | 11,00 | 13,00 | 17,00 | 19,00 | 22,00 | 24,00 | 27,00 | 30,00 | 32,00 | 36,00 |
|   | Grade A min             | 6,78  | 7,78  | 9,78  | 10,73 | 12,73 | 16,73 | 18,67 | 21,67 | 23,67 | 26,67 | 29,67 | 31,61 | 35,38 |
|   | Grade B min             |       |       |       |       |       |       |       |       | 23,16 | 26,16 | 29,18 | 31,00 | 35,00 |
| k | nominal                 | 2,80  | 3,50  | 4,00  | 4,80  | 5,30  | 6,40  | 7,50  | 8,80  | 10,00 | 11,50 | 12,50 | 14,00 | 15,00 |
|   | Grade A                 | max   | 2,92  | 3,65  | 4,15  | 4,95  | 5,45  | 6,58  | 7,68  | 8,98  | 10,18 | 11,72 | 12,72 | 14,22 |
|   |                         | min   | 2,68  | 3,35  | 3,85  | 4,65  | 5,15  | 6,22  | 7,32  | 8,62  | 9,82  | 11,28 | 12,28 | 13,78 |
|   | Grade B                 | max   |       |       |       |       |       |       |       |       | 10,29 | 11,85 | 12,85 | 14,35 |
|   |                         | min   |       |       |       |       |       |       |       |       | 9,71  | 11,15 | 12,15 | 13,65 |
| e | Grade A min             | 7,66  | 8,79  | 11,05 | 12,12 | 14,38 | 18,90 | 21,10 | 24,49 | 26,75 | 30,14 | 33,53 | 35,72 | 39,98 |
|   | Grade B min             |       |       |       |       |       |       |       |       | 26,17 | 29,56 | 32,95 | 35,03 | 39,55 |
| b | l ≤ 125                 | 14,00 | 16,00 | 18,00 | 20,00 | 22,00 | 26,00 | 30,00 | 34,00 | 38,00 | 42,00 | 46,00 | 50,00 | 54,00 |
|   | l > 125 (125 < l ≤ 200) |       | 22,00 | 24,00 | 26,00 | 28,00 | 32,00 | 36,00 | 40,00 | 44,00 | 48,00 | 52,00 | 56,00 | 60,00 |
|   | l > 200                 |       |       |       |       |       | 45,00 | 49,00 | 53,00 | 57,00 | 61,00 | 65,00 | 69,00 | 73,00 |

| l   | min    | max    | M4   | M5    | M6    | M7    | M8    | M10    | M12    | M14    | M16    | M18    | M20    | M22    | M24    |
|-----|--------|--------|------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 20  | 19,58  | 20,42  | 2,63 | 4,08  |       |       |       |        |        |        |        |        |        |        |        |
| 25  | 24,58  | 25,42  | 3,12 | 4,86  | 6,99  |       |       |        |        |        |        |        |        |        |        |
| 30  | 29,58  | 30,42  | 3,61 | 5,64  | 8,06  | 12,70 | 16,10 |        |        |        |        |        |        |        |        |
| 35  | 34,50  | 35,50  | 4,04 | 6,42  | 9,13  | 13,60 | 18,20 | 31,93  |        |        |        |        |        |        |        |
| 40  | 39,50  | 40,50  | 4,53 | 7,20  | 10,20 | 35,36 | 20,70 | 35,00  | 49,00  |        |        |        |        |        |        |
| 45  | 44,50  | 45,50  | 5,03 | 7,98  | 11,30 | 15,10 | 22,20 | 38,00  | 54,00  | 76,00  |        |        |        |        |        |
| 50  | 49,50  | 50,50  | 5,52 | 8,76  | 12,30 | 16,60 | 24,20 | 41,10  | 58,00  | 82,00  | 107,00 | 141,00 | 183,00 |        |        |
| 55  | 54,40  | 55,60  | 6,02 | 9,54  | 13,40 | 18,10 | 25,80 | 43,80  | 63,00  | 88,00  | 115,00 | 151,00 | 195,00 |        |        |
| 60  | 59,40  | 60,60  | 6,51 | 10,30 | 14,40 | 19,50 | 27,80 | 46,90  | 67,00  | 94,00  | 123,00 | 161,00 | 207,00 | 251,00 | 320,00 |
| 65  | 64,40  | 65,60  | 7,01 | 11,10 | 15,50 | 21,00 | 29,80 | 50,00  | 70,00  | 99,00  | 131,00 | 171,00 | 219,00 | 266,00 | 338,00 |
| 70  | 69,40  | 70,60  | 7,50 | 11,90 | 16,50 | 22,50 | 31,80 | 53,10  | 75,00  | 105,00 | 139,00 | 181,00 | 231,00 | 281,00 | 356,00 |
| 75  | 74,40  | 75,60  |      | 12,70 | 17,60 | 24,00 | 33,70 | 56,20  | 79,00  | 111,00 | 147,00 | 191,00 | 243,00 | 296,00 | 374,00 |
| 80  | 79,40  | 80,60  |      | 13,50 | 18,60 | 25,50 | 35,70 | 59,30  | 84,00  | 117,00 | 155,00 | 200,00 | 255,00 | 311,00 | 392,00 |
| 85  | 84,30  | 85,70  |      |       | 19,70 | 27,00 | 37,70 | 62,40  | 88,00  | 123,00 | 163,00 | 210,00 | 267,00 | 326,00 | 410,00 |
| 90  | 89,30  | 90,70  |      | 15,10 | 20,80 | 28,50 | 39,60 | 65,50  | 92,00  | 127,00 | 171,00 | 220,00 | 279,00 | 341,00 | 428,00 |
| 95  | 94,30  | 95,70  |      |       | 21,90 | 30,00 | 41,60 | 68,60  | 96,80  | 133,00 | 179,00 | 230,00 | 291,00 | 356,00 | 446,00 |
| 100 | 99,30  | 100,70 |      | 16,70 | 23,00 |       | 43,60 | 71,70  | 101,00 | 139,00 | 186,00 | 240,00 | 303,00 | 370,00 | 464,00 |
| 105 | 104,30 | 105,70 |      |       |       | 33,10 | 45,60 | 74,80  | 105,00 |        |        |        |        |        |        |
| 110 | 109,30 | 110,70 |      |       | 25,20 |       | 47,50 | 77,90  | 109,00 | 151,00 | 202,00 | 260,00 | 327,00 | 400,00 | 500,00 |
| 115 | 114,30 | 115,70 |      |       |       |       | 49,45 | 81,00  | 114,00 |        |        |        |        |        |        |
| 120 | 119,30 | 120,70 |      |       | 27,40 |       | 51,40 | 84,10  | 118,00 | 164,00 | 218,00 | 280,00 | 351,00 | 430,00 | 535,00 |
| 130 | 129,20 | 130,80 |      |       | 29,60 |       | 55,30 | 90,30  | 127,00 | 174,00 | 230,00 | 296,00 | 374,00 | 450,00 | 560,00 |
| 140 | 139,20 | 140,80 |      |       | 31,80 |       | 59,20 | 96,50  | 136,00 | 185,00 | 246,00 | 316,00 | 398,00 | 480,00 | 595,00 |
| 150 | 149,20 | 150,80 |      |       | 34,00 |       | 63,10 | 102,70 | 145,00 | 196,00 | 262,00 | 336,00 | 422,00 | 510,00 | 630,00 |
|     |        |        |      |       |       |       |       |        |        |        |        |        |        |        |        |
|     |        |        |      |       |       |       |       |        |        |        |        |        |        |        |        |
|     |        |        |      |       |       |       |       |        |        |        |        |        |        |        |        |

Değerler milimetre olarak verilmiştir.

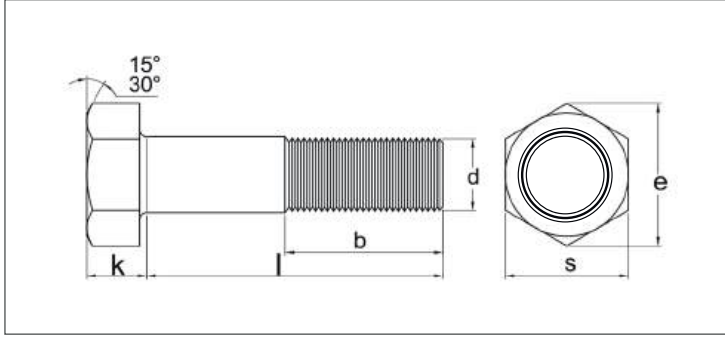
Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI METRİK DİŞ YARIM PASO CIVATA

HEXAGON HEAD BOLT METRIC PARTIAL THREAD

SECHSKANTSCHRAUBE MIT SCHAFT



**DIN EN  
ISO**

**UNI**

**DIN**

**4014**

**5737**

**931**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1  
ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d |                         |         | M8    | M10   | M12   | M14   | M16   | M18   | M20   | M22   | M24   |
|---|-------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| p |                         |         | 1,25  | 1,50  | 1,75  | 2,00  | 2,00  | 2,50  | 2,50  | 2,50  | 3,00  |
| s |                         | max     | 13,00 | 17,00 | 19,00 | 22,00 | 24,00 | 27,00 | 30,00 | 32,00 | 36,00 |
|   | Grade A                 | min     | 12,73 | 16,73 | 18,67 | 21,67 | 23,67 | 26,67 | 29,67 | 31,61 | 35,38 |
|   | Grade B                 | min     |       |       |       |       | 23,16 | 26,16 | 29,18 | 31,00 | 35,00 |
| k |                         | nominal | 5,30  | 6,40  | 7,50  | 8,80  | 10,00 | 11,50 | 12,50 | 14,00 | 15,00 |
|   | Grade A                 | max     | 5,45  | 6,58  | 7,68  | 8,98  | 10,18 | 11,72 | 12,72 | 14,22 | 15,22 |
|   |                         | min     | 5,15  | 6,22  | 7,32  | 8,62  | 9,82  | 11,28 | 12,28 | 13,78 | 14,78 |
|   | Grade B                 | max     |       |       |       |       | 10,29 | 11,85 | 12,85 | 14,35 | 14,35 |
|   |                         | min     |       |       |       |       | 9,71  | 11,15 | 12,15 | 13,65 | 13,65 |
| e | Grade A                 | min     | 14,38 | 18,90 | 21,10 | 24,49 | 26,75 | 30,14 | 33,53 | 35,72 | 39,98 |
|   | Grade B                 | min     |       |       |       |       | 26,17 | 29,56 | 32,95 | 35,03 | 39,55 |
| b | l ≤ 125                 |         | 22,00 | 26,00 | 30,00 | 34,00 | 38,00 | 42,00 | 46,00 | 50,00 | 54,00 |
|   | l > 125 (125 < l ≤ 200) |         | 28,00 | 32,00 | 36,00 | 40,00 | 44,00 | 48,00 | 52,00 | 56,00 | 60,00 |
|   | l > 200                 |         |       | 45,00 | 49,00 | 53,00 | 57,00 | 61,00 | 65,00 | 69,00 | 73,00 |

| l   | min    | max    | M8     | M10    | M12    | M14    | M16    | M18    | M20     | M22    | M24     |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| 160 | 159,20 | 160,80 | 67,00  | 108,90 | 153,00 | 207,00 | 278,00 | 356,00 | 446,00  | 540,00 | 665,00  |
| 170 | 169,20 | 170,80 | 70,90  | 115,10 | 162,00 | 218,00 | 294,00 | 376,00 | 470,00  | 570,00 | 700,00  |
| 180 | 179,20 | 180,80 | 74,80  | 121,30 | 171,00 | 229,00 | 310,00 | 396,00 | 494,00  | 600,00 | 735,00  |
| 190 | 189,80 | 190,92 | 78,70  | 127,50 | 180,00 | 240,00 | 326,00 | 416,00 | 519,00  | 630,00 | 770,00  |
| 200 | 199,10 | 200,90 | 82,60  | 133,70 | 188,00 | 251,00 | 342,00 | 436,00 | 544,00  | 660,00 | 805,00  |
| 210 | 209,10 | 210,90 | 86,50  | 139,90 | 197,00 | 262,00 | 358,00 | 456,00 | 569,00  | 690,00 | 840,00  |
| 220 | 219,10 | 220,90 | 90,40  | 146,10 | 206,00 | 273,00 | 373,00 | 476,00 | 595,00  | 720,00 | 870,00  |
| 230 | 229,10 | 230,90 | 94,30  | 152,10 | 210,00 | 284,00 | 387,00 | 496,00 | 619,00  | 748,00 | 905,00  |
| 240 | 139,10 | 240,90 | 98,20  | 158,50 | 219,00 | 295,00 | 403,00 | 516,00 | 645,00  | 778,00 | 940,00  |
| 250 | 248,95 | 251,05 | 102,10 | 164,70 | 228,00 | 306,00 | 418,00 | 536,00 | 670,00  | 808,00 | 975,00  |
| 260 | 258,95 | 261,05 | 106,00 | 170,90 | 237,00 | 317,00 | 434,00 | 556,00 | 695,00  | 838,00 | 1010,00 |
| 270 | 268,95 | 271,05 | 109,90 | 177,10 | 246,00 | 328,00 | 449,00 | 576,00 | 720,00  | 868,00 | 1045,00 |
| 280 | 278,95 | 281,05 | 113,80 | 183,30 | 255,00 | 339,00 | 465,00 | 596,00 | 745,00  | 898,00 | 1080,00 |
| 290 | 288,95 | 291,05 | 117,70 | 189,50 | 264,00 | 350,00 | 480,00 | 616,00 | 770,00  | 928,00 | 1115,00 |
| 300 | 298,95 | 301,05 | 121,60 | 195,70 | 273,00 | 361,00 | 496,00 | 636,00 | 795,00  | 958,00 | 1150,00 |
| 310 | 308,95 | 311,05 |        |        |        |        | 512,00 |        | 820,00  |        | 1185,00 |
| 320 | 318,85 | 321,15 |        |        |        |        | 528,00 |        | 845,00  |        | 1220,00 |
| 330 | 328,85 | 331,15 |        |        |        |        | 544,00 |        | 870,00  |        | 1255,00 |
| 340 | 337,15 | 322,85 |        |        |        |        | 560,00 |        | 895,00  |        | 1290,00 |
| 350 | 348,85 | 351,15 |        |        |        |        | 576,00 |        | 920,00  |        | 1325,00 |
| 360 | 357,15 | 362,85 |        |        |        |        | 592,00 |        | 945,00  |        | 1360,00 |
| 370 | 368,85 | 371,15 |        |        |        |        | 608,00 |        | 970,00  |        | 1395,00 |
| 380 | 377,15 | 382,85 |        |        |        |        | 624,00 |        | 995,00  |        | 1430,00 |
| 390 | 388,85 | 391,15 |        |        |        |        | 640,00 |        | 1020,00 |        | 1465,00 |
| 400 | 397,15 | 402,85 |        |        |        |        | 656,00 |        | 1045,00 |        | 1500,00 |
|     |        |        |        |        |        |        |        |        |         |        |         |
|     |        |        |        |        |        |        |        |        |         |        |         |

Değerler milimetre olarak verilmiştir.

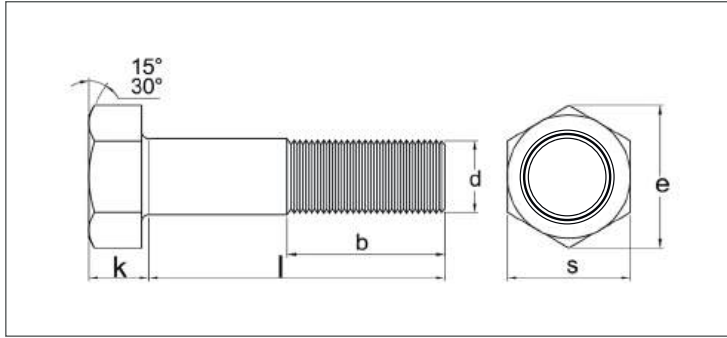
Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI METRİK DİŞ YARIM PASO CIVATA

HEXAGON HEAD BOLT METRIC PARTIAL THREAD

SECHSKANTSCHRAUBE MIT SCHAFT



**DIN EN  
ISO**

**UNI**

**DIN**

**4014**

**5737**

**931**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1  
ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d |                         |         | M27   | M30   | M33   | M36   | M39    | M42    | M45    | M48    |
|---|-------------------------|---------|-------|-------|-------|-------|--------|--------|--------|--------|
| p |                         |         | 3,00  | 3,50  | 3,50  | 4,00  | 4,00   | 4,50   | 4,50   | 5,00   |
| s |                         | max     | 41,00 | 46,00 | 50,00 | 55,00 | 60,00  | 65,00  | 70,00  | 75,00  |
|   | Grade A                 | min     |       |       |       |       |        |        |        |        |
|   | Grade B                 | min     | 40,00 | 45,00 | 49,00 | 53,80 | 58,80  | 63,10  | 68,10  | 73,10  |
| k |                         | nominal | 17,00 | 18,70 | 21,00 | 21,00 | 25,00  | 26,00  | 28,00  | 30,00  |
|   | Grade A                 | max     |       |       |       |       |        |        |        |        |
|   |                         | min     |       |       |       |       |        |        |        |        |
|   | Grade B                 | max     | 17,35 | 19,12 | 21,42 | 22,92 | 25,42  | 26,42  | 28,42  | 30,42  |
|   |                         | min     | 16,65 | 18,28 | 20,58 | 22,08 | 24,58  | 25,58  | 27,58  | 29,58  |
| e | Grade A                 | min     |       |       |       |       |        |        |        |        |
|   | Grade B                 | min     | 45,20 | 50,85 | 55,37 | 60,79 | 66,44  | 71,30  | 76,95  | 82,60  |
| b | l ≤ 125                 |         | 60,00 | 66,00 | 72,00 | 72,00 | 84,00  | 90,00  | 96,00  | 102,00 |
|   | l > 125 (125 < l ≤ 200) |         | 66,00 | 72,00 | 78,00 | 78,00 | 90,00  | 96,00  | 102,00 | 108,00 |
|   | l > 200                 |         | 79,00 | 85,00 | 91,00 | 91,00 | 103,00 | 109,00 | 115,00 | 121,00 |

| l   | min    | max    | M27     | M30     | M33     | M36     | M39     | M42     | M45     | M48     |
|-----|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 60  | 59,40  | 60,60  |         | 550,00  | 708,00  | 850,00  |         |         |         |         |
| 70  | 69,40  | 70,60  | 465,00  | 605,00  | 743,00  | 930,00  |         |         |         |         |
| 75  | 74,40  | 75,60  | 488,00  |         |         |         |         |         |         |         |
| 80  | 79,40  | 80,60  | 511,00  | 658,00  | 778,00  | 1010,00 | 1299,00 |         |         |         |
| 85  | 84,30  | 85,70  | 534,00  | 685,00  |         |         |         |         |         |         |
| 90  | 89,30  | 90,70  | 557,00  | 712,00  | 813,00  | 1090,00 | 1368,00 |         |         |         |
| 95  | 94,30  | 95,70  | 580,00  | 739,00  | 882,00  | 1130,00 |         |         |         |         |
| 100 | 99,30  | 100,70 | 603,00  | 767,00  | 951,00  | 1170,00 | 1443,00 | 1650,00 |         |         |
| 110 | 109,30 | 110,70 | 650,00  | 823,00  | 1020,00 | 1250,00 | 1510,00 | 1760,00 | 2170,00 |         |
| 120 | 119,30 | 120,70 | 695,00  | 880,00  | 1090,00 | 1330,00 | 1590,00 | 1870,00 | 2260,00 | 2580,00 |
| 130 | 129,20 | 130,80 | 720,00  | 920,00  | 1150,00 | 1400,00 | 1650,00 | 1980,00 | 2350,00 | 2720,00 |
| 140 | 139,20 | 140,80 | 765,00  | 975,00  | 1220,00 | 1480,00 | 1740,00 | 2090,00 | 2480,00 | 2860,00 |
| 150 | 149,20 | 150,80 | 810,00  | 1030,00 | 1290,00 | 1560,00 | 1830,00 | 2200,00 | 2600,00 | 3010,00 |
| 160 | 159,20 | 160,80 | 855,00  | 1090,00 | 1350,00 | 1640,00 | 1930,00 | 2310,00 | 2730,00 | 3160,00 |
| 170 | 169,20 | 170,80 | 900,00  | 1140,00 | 1410,00 | 1720,00 | 2020,00 | 2410,00 | 2850,00 | 3300,00 |
| 180 | 179,20 | 180,80 | 945,00  | 1200,00 | 1480,00 | 1800,00 | 2120,00 | 2520,00 | 2980,00 | 3440,00 |
| 190 | 189,80 | 190,92 | 990,00  | 1250,00 | 1540,00 | 1880,00 | 2210,00 | 2630,00 | 3100,00 | 3580,00 |
| 200 | 199,10 | 200,90 | 1030,00 | 1310,00 | 1610,00 | 1970,00 | 2310,00 | 2740,00 | 3220,00 | 3720,00 |
| 210 | 209,10 | 210,90 | 1075,00 | 1365,00 | 1675,00 | 2050,00 | 2400,00 | 2850,00 | 3340,00 | 3860,00 |
| 220 | 219,10 | 220,90 | 1130,00 | 1420,00 | 1750,00 | 2130,00 | 2500,00 | 2960,00 | 3470,00 | 4010,00 |
| 230 | 229,10 | 230,90 | 1176,00 | 1475,00 | 1820,00 | 2210,00 | 2600,00 | 3070,00 | 3600,00 | 4150,00 |
| 240 | 139,10 | 240,90 | 1220,00 | 1530,00 | 1880,00 | 2290,00 | 2700,00 | 3180,00 | 3730,00 | 4290,00 |
| 250 | 248,95 | 251,05 | 1265,00 | 1585,00 | 1950,00 | 2370,00 | 2800,00 | 3290,00 | 3860,00 | 4430,00 |
| 260 | 258,95 | 261,05 | 1310,00 | 1640,00 | 2020,00 | 2450,00 | 2900,00 | 3400,00 | 3990,00 | 4570,00 |
| 280 | 278,95 | 281,05 | 1400,00 | 1750,00 | 2150,00 | 2610,00 | 3100,00 | 3620,00 | 4250,00 | 4850,00 |
| 300 | 298,95 | 301,05 | 1490,00 | 1860,00 | 2290,00 | 2770,00 | 3300,00 | 3840,00 | 4500,00 | 5130,00 |
| 320 | 317,50 | 322,85 | 1580,00 | 1970,00 |         |         |         |         | 4757,00 | 5410,00 |
| 340 | 337,15 | 322,85 |         | 2080,00 |         |         |         |         |         |         |
| 360 | 357,15 | 362,85 |         | 2190,00 |         |         |         |         |         |         |
| 380 | 377,15 | 382,85 |         | 2300,00 |         |         |         |         |         |         |
| 400 | 397,15 | 402,85 |         | 2410,00 |         |         |         |         |         |         |

Değerler milimetre olarak verilmiştir.

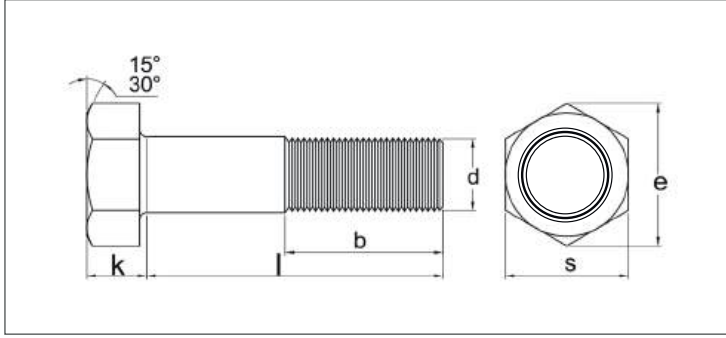
Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI METRİK DİŞ TAM PASO CIVATA

HEXAGON HEAD BOLT METRIC FULL THREAD

SECHSKANTSCHRAUBE MIT GEWINDE BIS KOPF



**DIN EN  
ISO**

**UNI**

**DIN**

**4017**

**5739**

**933**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1  
ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d       |         |         | M3   | M4   | M5   | M6    | M7    | M8    | M10   | M12   | M14   | M16   | M18   | M20   |
|---------|---------|---------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| p       |         |         | 0,50 | 0,70 | 0,80 | 1,00  | 1,00  | 1,25  | 1,50  | 1,75  | 2,00  | 2,00  | 2,50  | 2,50  |
| s       |         | max     | 5,50 | 7,00 | 8,00 | 10,00 | 11,00 | 13,00 | 17,00 | 19,00 | 22,00 | 24,00 | 27,00 | 30,00 |
|         | Grade A | min     | 5,32 | 6,78 | 7,78 | 9,78  | 10,73 | 12,73 | 16,73 | 18,67 | 21,67 | 23,67 | 26,67 | 29,67 |
|         | Grade B | min     |      | 6,64 | 7,64 | 9,64  | 10,57 | 12,57 | 16,57 | 18,48 | 21,16 | 23,16 | 26,15 | 29,16 |
| k       | Grade A | nominal | 2,00 | 2,80 | 3,50 | 4,00  | 4,80  | 5,30  | 6,40  | 7,50  | 8,80  | 10,00 | 11,50 | 12,50 |
|         |         | max     | 2,12 | 2,92 | 3,65 | 4,15  | 4,95  | 5,45  | 6,56  | 7,68  | 8,98  | 10,18 | 11,72 | 12,72 |
|         |         | min     | 1,88 | 2,68 | 3,35 | 3,85  | 4,65  | 5,15  | 6,22  | 7,32  | 8,62  | 9,82  | 11,28 | 12,28 |
|         | Grade B | max     |      | 3,00 | 3,74 | 4,24  | 5,04  | 5,54  | 6,69  | 7,79  | 9,09  | 10,29 | 11,85 | 12,85 |
|         |         | min     |      | 2,60 | 3,26 | 3,76  | 4,56  | 5,06  | 6,11  | 7,21  | 8,51  | 9,71  | 11,15 | 12,15 |
|         | e       | Grade A | min  | 6,01 | 7,66 | 8,79  | 11,05 | 12,12 | 14,38 | 18,90 | 21,10 | 24,49 | 26,75 | 30,14 |
| Grade B |         | min     |      | 7,50 | 8,63 | 10,89 | 11,94 | 14,20 | 18,72 | 20,88 | 23,91 | 26,17 | 29,56 | 32,95 |

| l   | min    | max    | M3   | M4   | M5    | M6    | M7    | M8    | M10    | M12    | M14    | M16    | M18    | M20    |
|-----|--------|--------|------|------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 6   | 5,76   | 6,24   | 0,67 | 1,34 |       |       |       |       |        |        |        |        |        |        |
| 8   | 7,71   | 8,29   | 0,71 | 1,49 | 2,38  | 3,74  |       | 8,50  |        |        |        |        |        |        |
| 10  | 9,71   | 10,29  | 0,75 | 1,64 | 2,63  | 4,08  | 6,53  | 9,10  | 16,20  |        |        |        |        |        |
| 12  | 11,65  | 12,35  | 0,92 | 1,80 | 2,87  | 4,42  | 6,92  | 9,80  | 17,20  | 24,90  |        |        |        |        |
| 14  | 13,65  | 14,35  | 1,00 | 1,95 | 3,12  | 4,77  | 7,39  | 10,40 | 18,20  | 26,30  |        |        |        |        |
| 16  | 15,65  | 16,35  | 1,08 | 2,10 | 3,37  | 5,11  | 7,86  | 11,10 | 19,20  | 27,70  | 44,00  |        |        |        |
| 18  | 17,65  | 18,35  |      | 2,26 | 3,62  | 5,46  | 8,41  | 11,70 | 20,20  | 29,10  | 46,00  |        |        |        |
| 20  | 19,58  | 20,42  | 1,25 | 2,41 | 3,87  | 5,80  | 8,91  | 12,30 | 21,20  | 31,00  | 48,00  | 63,50  | 88,00  |        |
| 22  | 21,58  | 22,42  |      | 2,56 | 4,12  | 6,15  | 9,35  | 12,90 | 22,20  | 33,00  | 50,00  | 66,20  |        |        |
| 25  | 24,58  | 25,42  | 1,46 | 2,80 | 4,49  | 6,65  | 10,10 | 13,90 | 23,70  | 34,10  | 53,00  | 70,20  | 95,80  | 124,00 |
| 28  | 27,58  | 28,42  |      |      |       | 7,15  |       | 14,90 | 25,20  |        |        |        |        |        |
| 30  | 29,58  | 30,42  | 1,67 | 3,19 | 5,11  | 7,51  | 11,40 | 15,50 | 26,20  | 37,70  | 57,90  | 76,90  | 104,00 | 134,00 |
| 35  | 34,50  | 35,50  | 1,88 | 3,57 | 5,73  | 8,37  | 12,60 | 17,10 | 28,70  | 41,30  | 62,90  | 83,50  | 112,00 | 145,00 |
| 40  | 39,50  | 40,50  | 2,09 | 3,96 | 6,35  | 9,23  | 13,90 | 18,70 | 31,20  | 44,90  | 67,90  | 90,20  | 120,00 | 155,00 |
| 45  | 44,50  | 45,50  | 2,52 | 4,34 | 6,99  | 10,10 | 15,10 | 20,30 | 33,70  | 48,50  | 72,90  | 97,10  | 128,00 | 165,00 |
| 50  | 49,50  | 50,50  |      | 4,73 | 7,59  | 11,00 | 16,40 | 21,80 | 36,20  | 52,00  | 77,90  | 103,00 | 136,00 | 176,00 |
| 55  | 54,40  | 55,60  |      | 5,11 | 8,19  | 11,90 | 17,60 | 23,40 | 38,70  | 55,60  | 82,90  | 110,00 | 145,00 | 186,00 |
| 60  | 59,40  | 60,60  |      | 5,50 | 8,80  | 12,70 | 18,80 | 25,00 | 41,30  | 58,20  | 87,80  | 117,00 | 153,00 | 196,00 |
| 65  | 64,40  | 65,60  |      |      | 9,40  | 13,60 | 20,10 | 26,60 | 43,80  | 62,80  | 92,80  | 123,00 | 161,00 | 207,00 |
| 70  | 69,40  | 70,60  |      |      | 10,00 | 14,40 | 21,30 | 28,20 | 46,30  | 66,40  | 97,80  | 130,00 | 169,00 | 217,00 |
| 75  | 74,40  | 75,60  |      |      |       | 15,30 | 22,60 | 29,80 | 48,80  | 70,00  | 102,00 | 137,00 | 177,00 | 227,00 |
| 80  | 79,40  | 80,60  |      |      | 11,21 | 16,20 | 23,80 | 31,40 | 51,30  | 73,60  | 107,00 | 144,00 | 186,00 | 238,00 |
| 85  | 84,30  | 85,70  |      |      |       | 17,00 | 25,10 | 33,00 | 53,80  | 77,20  | 112,00 | 150,00 | 194,00 | 247,00 |
| 90  | 89,30  | 90,70  |      |      |       | 17,90 | 26,30 | 34,60 | 56,30  | 80,80  | 117,00 | 157,00 | 202,00 | 258,00 |
| 95  | 94,30  | 95,70  |      |      |       | 18,80 | 27,50 | 35,20 | 59,80  | 84,40  | 122,00 | 164,00 | 210,00 | 268,00 |
| 100 | 99,30  | 100,70 |      |      |       | 19,60 | 28,80 | 37,70 | 61,30  | 88,00  | 127,00 | 170,00 | 218,00 | 279,00 |
| 110 | 109,30 | 110,70 |      |      |       | 21,30 |       | 40,90 | 66,40  | 95,20  | 137,00 | 184,00 | 235,00 | 300,00 |
| 120 | 119,30 | 120,70 |      |      |       | 23,00 |       | 43,60 | 71,40  | 102,00 | 147,00 | 197,00 | 251,00 | 320,00 |
| 130 | 129,20 | 130,80 |      |      |       |       |       | 46,40 | 76,40  | 109,00 | 157,00 | 210,00 | 268,00 | 340,00 |
| 140 | 139,20 | 140,80 |      |      |       |       |       | 49,10 | 81,40  | 116,00 | 167,00 | 224,00 | 284,00 | 361,00 |
| 150 | 149,20 | 150,80 |      |      |       |       |       | 51,80 | 86,40  | 123,00 | 177,00 | 237,00 | 300,00 | 381,00 |
| 160 | 159,20 | 160,80 |      |      |       |       |       | 54,60 | 91,40  | 130,00 | 187,00 | 251,00 | 316,00 | 402,00 |
| 170 | 169,20 | 170,80 |      |      |       |       |       | 57,30 | 96,40  | 137,00 | 197,00 | 264,00 | 332,00 | 422,00 |
| 180 | 179,20 | 180,80 |      |      |       |       |       | 60,00 | 101,40 | 144,00 | 207,00 | 278,00 | 348,00 | 442,00 |
| 190 | 189,80 | 190,92 |      |      |       |       |       | 62,80 | 106,40 | 151,00 | 217,00 | 291,00 | 364,00 | 462,00 |
| 200 | 199,10 | 200,90 |      |      |       |       |       | 65,50 | 111,40 | 158,00 | 227,00 | 305,00 | 380,00 | 484,00 |

Değerler milimetre olarak verilmiştir.

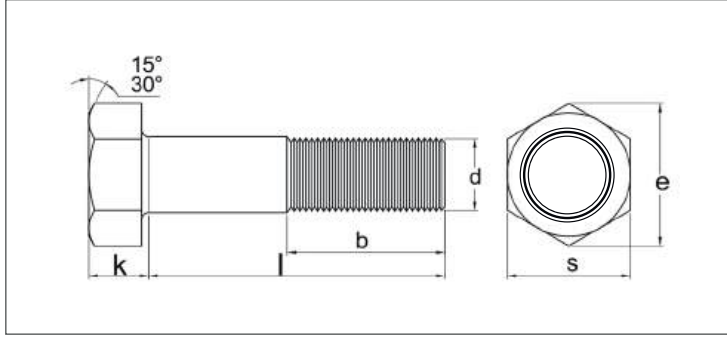
Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI METRİK DİŞ TAM PASO CIVATA

HEXAGON HEAD BOLT METRIC FULL THREAD

SECHSKANTSCHRAUBE MIT GEWINDE BIS KOPF



| ISO                                                                                                              | UNI  | DIN                 |
|------------------------------------------------------------------------------------------------------------------|------|---------------------|
| 4017                                                                                                             | 5739 | 933                 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | 898-1<br>ISO 4759-1 |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d |         |         | M22   | M24   | M27   | M30   | M33   | M36   | M39   | M42   | M45   | M48   |
|---|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| p |         |         | 2,50  | 3,00  | 3,00  | 3,50  | 3,50  | 4,00  | 4,00  | 4,50  | 4,50  | 5,00  |
| s |         | max     | 32,00 | 36,00 | 41,00 | 46,00 | 50,00 | 55,00 | 60,00 | 65,00 | 70,00 | 75,00 |
|   | Grade A | min     | 31,61 | 35,38 |       |       |       |       |       |       |       |       |
|   | Grade B | min     | 31,00 | 35,00 | 40,00 | 45,00 | 49,00 | 53,80 | 58,80 | 63,10 | 68,10 | 73,10 |
| k |         | nominal | 14,00 | 15,00 | 17,00 | 18,70 | 21,00 | 22,50 | 25,00 | 26,00 | 28,00 | 30,00 |
|   | Grade A | max     | 14,22 | 15,22 |       |       |       |       |       |       |       |       |
|   |         | min     | 13,78 | 14,78 |       |       |       |       |       |       |       |       |
|   | Grade B | max     | 14,35 | 15,35 | 17,35 | 19,12 | 21,42 | 22,92 | 25,42 | 26,42 | 28,42 | 30,42 |
|   |         | min     | 13,65 | 14,65 | 16,65 | 18,28 | 20,58 | 22,08 | 24,58 | 25,58 | 27,58 | 29,58 |
| e | Grade A | min     | 35,72 | 39,98 |       |       |       |       |       |       |       |       |
|   | Grade B | min     | 35,03 | 39,55 | 45,20 | 50,85 | 55,37 | 60,79 | 66,44 | 71,30 | 76,95 | 82,60 |

| l   | min    | max    | M22    | M24    | M27    | M30     | M33     | M36     | M39     | M42     | M45     | M48     |
|-----|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 30  | 29,58  | 30,42  | 168,00 | 214,00 |        |         |         |         |         |         |         |         |
| 35  | 34,50  | 35,50  | 181,00 | 229,00 |        |         |         |         |         |         |         |         |
| 40  | 39,50  | 40,50  | 193,00 | 244,00 |        | 448,00  |         |         |         |         |         |         |
| 45  | 44,50  | 45,50  | 206,00 | 259,00 |        | 472,00  |         |         |         |         |         |         |
| 50  | 49,50  | 50,50  | 219,00 | 274,00 | 377,00 | 496,00  |         | 797,00  |         |         |         |         |
| 55  | 54,40  | 55,60  | 232,00 | 289,00 | 397,00 | 519,00  |         | 822,00  |         |         |         |         |
| 60  | 59,40  | 60,60  | 244,00 | 304,00 | 416,00 | 543,00  | 688,00  | 851,00  |         |         |         |         |
| 65  | 64,40  | 65,60  | 257,00 | 319,00 | 435,00 | 566,00  | 717,00  | 886,00  |         |         |         |         |
| 70  | 69,40  | 70,60  | 269,00 | 334,00 | 454,00 | 590,00  | 746,00  | 910,00  |         |         |         |         |
| 75  | 74,40  | 75,60  | 282,00 | 348,00 | 473,00 | 614,00  | 775,00  | 950,00  |         |         |         |         |
| 80  | 79,40  | 80,60  | 295,00 | 363,00 | 492,00 | 637,00  | 806,00  | 990,00  | 1240,00 | 1460,00 |         |         |
| 85  | 84,30  | 85,70  | 308,00 | 378,00 | 512,00 | 661,00  | 837,00  | 1020,00 | 1280,00 | 1500,00 |         |         |
| 90  | 89,30  | 90,70  | 321,00 | 393,00 | 531,00 | 685,00  | 866,00  | 1060,00 | 1320,00 | 1550,00 |         |         |
| 100 | 99,30  | 100,70 | 346,00 | 423,00 | 569,00 | 732,00  | 920,00  | 1140,00 | 1400,00 | 1650,00 | 1980,00 | 2320,00 |
| 110 | 109,30 | 110,70 | 371,00 | 453,00 | 608,00 | 779,00  | 978,00  | 1200,00 | 1480,00 | 1740,00 | 2090,00 | 2450,00 |
| 120 | 119,30 | 120,70 | 397,00 | 483,00 | 647,00 | 827,00  | 1040,00 | 1260,00 | 1560,00 | 1840,00 | 2190,00 | 2570,00 |
| 130 | 129,20 | 130,80 | 421,00 | 513,00 | 685,00 | 874,00  | 1090,00 | 1330,00 | 1650,00 | 1930,00 | 2300,00 | 2690,00 |
| 140 | 139,20 | 140,80 | 448,00 | 543,00 | 724,00 | 921,00  | 1150,00 | 1400,00 | 1730,00 | 2020,00 | 2410,00 | 2820,00 |
| 150 | 149,20 | 150,80 | 473,00 | 572,00 | 762,00 | 969,00  | 1210,00 | 1470,00 | 1810,00 | 2120,00 | 2520,00 | 2940,00 |
| 160 | 159,20 | 160,80 | 498,00 | 602,00 | 801,00 | 1010,00 | 1270,00 | 1540,00 | 1890,00 | 2210,00 | 2630,00 | 3060,00 |
| 170 | 169,20 | 170,80 | 523,00 | 632,00 | 839,00 | 1060,00 | 1330,00 | 1610,00 | 1970,00 | 2300,00 | 2740,00 |         |
| 180 | 179,20 | 180,80 | 548,00 | 662,00 | 875,00 | 1110,00 | 1390,00 | 1680,00 | 2050,00 | 2400,00 | 2850,00 | 3310,00 |
| 190 | 189,80 | 190,92 | 573,00 | 692,00 | 911,00 | 1160,00 | 1440,00 | 1740,00 | 2140,00 | 2500,00 | 2960,00 |         |
| 200 | 199,10 | 200,90 | 598,00 | 722,00 | 947,00 | 1210,00 | 1500,00 | 1810,00 | 2220,00 | 2590,00 | 3060,00 | 3560,00 |
| 210 | 209,10 | 210,90 |        |        |        |         |         |         |         | 2700,00 |         |         |
|     |        |        |        |        |        |         |         |         |         |         |         |         |
|     |        |        |        |        |        |         |         |         |         |         |         |         |
|     |        |        |        |        |        |         |         |         |         |         |         |         |
|     |        |        |        |        |        |         |         |         |         |         |         |         |
|     |        |        |        |        |        |         |         |         |         |         |         |         |
|     |        |        |        |        |        |         |         |         |         |         |         |         |

Değerler milimetre olarak verilmiştir.

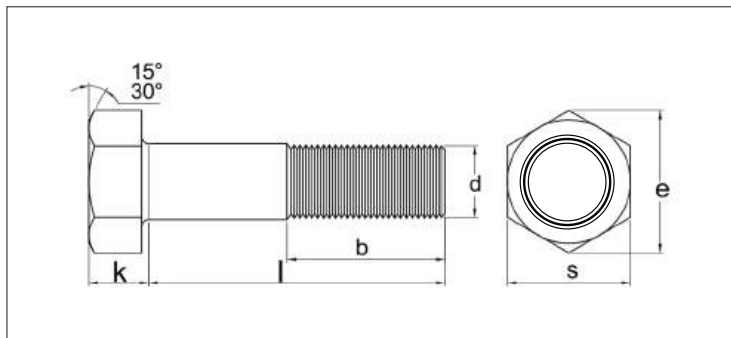
Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI METRİK İNCE DİŞ YARIM PASO CIVATA

HEXAGON HEAD BOLT METRIC PARTIAL FINE THREAD

SECHSKANTSCHRAUBE MIT FEINGEWINDE



**DIN EN  
ISO**

**UNI**

**DIN**

**8765**

**5738**

**960**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1  
ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d |                         | M8    | M10   | M10   | M12   | M12   | M14   | M16   |
|---|-------------------------|-------|-------|-------|-------|-------|-------|-------|
| p |                         | 1,00  | 1,00  | 1,25  | 1,25  | 1,50  | 1,50  | 1,50  |
| s | max                     | 13,00 | 17,00 | 17,00 | 19,00 | 18,00 | 22,00 | 24,00 |
|   | Grade A min             | 12,73 | 16,73 |       | 18,67 |       | 21,67 | 23,67 |
|   | Grade B min             | 12,57 | 16,57 |       | 18,48 |       | 21,16 | 23,16 |
| k | nominal                 | 5,30  | 6,40  |       | 7,50  |       | 8,80  | 10,00 |
|   | Grade A max             | 5,45  | 6,58  |       | 7,68  |       | 8,98  | 10,18 |
|   | min                     | 5,15  | 6,22  | 6,40  | 7,32  | 7,50  | 8,62  | 9,82  |
|   | Grade B max             | 5,54  | 6,69  |       | 7,79  |       | 9,09  | 10,29 |
|   | min                     | 5,06  | 6,11  |       | 7,21  |       | 8,51  | 9,71  |
| e | Grade A min             | 14,38 | 18,90 | 18,90 | 21,10 | 21,10 | 24,49 | 26,75 |
|   | Grade B min             | 14,20 | 18,72 |       | 20,88 |       | 23,91 | 26,17 |
| b | ≤ 125                   | 22,00 | 26,00 | 26,00 | 30,00 | 30,00 | 34,00 | 38,00 |
|   | l > 125 (125 < l ≤ 200) | 28,00 | 32,00 | 32,00 | 36,00 | 36,00 | 40,00 | 44,00 |
|   | l > 200                 | 41,00 | 45,00 | 45,00 | 49,00 | 49,00 | 53,00 | 57,00 |

| l   | min    | max    | M8    | M10   | M10    | M12    | M12    | M14    | M16    |
|-----|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| 35  | 34,50  | 35,50  | 19,10 | 33,90 | 33,90  | 47,60  | 47,60  |        |        |
| 40  | 39,50  | 40,50  | 21,10 | 37,10 | 37,10  | 52,00  | 52,00  | 73,50  |        |
| 45  | 44,50  | 45,50  | 23,00 | 40,20 | 40,20  | 56,40  | 56,40  | 79,00  |        |
| 50  | 49,50  | 50,50  | 25,00 | 43,40 | 43,40  | 60,80  | 60,80  | 84,50  | 111,00 |
| 55  | 54,40  | 55,60  | 27,00 |       | 46,50  | 65,30  | 65,30  | 90,10  | 119,00 |
| 60  | 59,40  | 60,60  | 28,90 | 49,60 | 49,60  | 69,80  | 69,80  | 95,70  | 127,00 |
| 65  | 64,40  | 65,60  | 30,90 |       | 52,80  | 74,30  | 74,30  | 101,00 | 135,00 |
| 70  | 69,40  | 70,60  | 32,90 | 55,80 | 55,80  | 78,80  | 78,80  | 107,00 | 143,00 |
| 75  | 74,40  | 75,60  | 32,80 |       | 59,00  | 83,30  | 83,30  | 112,00 | 151,00 |
| 80  | 79,40  | 80,60  | 36,80 |       | 62,20  | 87,80  | 87,80  | 118,00 | 159,00 |
| 85  | 84,30  | 85,70  | 38,70 |       | 65,40  | 92,30  | 92,30  |        |        |
| 90  | 89,30  | 90,70  | 40,70 |       | 69,40  | 96,70  | 96,70  | 129,00 | 175,00 |
| 100 | 99,30  | 100,70 | 44,70 |       | 75,70  | 106,10 | 106,10 | 140,00 | 191,00 |
| 110 | 109,30 | 110,70 | 48,60 |       | 82,00  | 115,30 | 115,30 | 152,00 | 217,00 |
| 120 | 119,30 | 120,70 | 52,60 |       | 88,20  | 124,50 | 124,50 | 164,00 | 233,00 |
| 130 | 129,20 | 130,80 | 56,50 |       | 94,40  | 133,70 |        | 176,00 | 249,00 |
| 140 | 139,20 | 140,80 | 60,50 |       | 100,60 | 142,80 | 142,80 | 188,00 | 265,00 |
| 150 | 149,20 | 150,80 | 64,40 |       | 107,10 | 152,00 | 152,00 | 200,00 | 281,00 |
| 160 | 159,20 | 160,80 | 68,40 |       | 113,40 | 161,10 | 161,10 | 212,00 | 296,00 |
| 170 | 169,20 | 170,80 |       |       | 119,70 | 170,30 |        | 224,00 | 312,00 |
| 180 | 179,20 | 180,80 |       |       | 124,00 | 179,00 |        | 236,00 | 328,00 |
| 190 | 189,80 | 190,92 |       |       |        |        |        | 248,00 | 344,00 |
| 200 | 199,10 | 200,90 |       |       |        |        |        | 260,00 | 360,00 |
|     |        |        |       |       |        |        |        |        |        |
|     |        |        |       |       |        |        |        |        |        |
|     |        |        |       |       |        |        |        |        |        |

Değerler milimetre olarak verilmiştir.

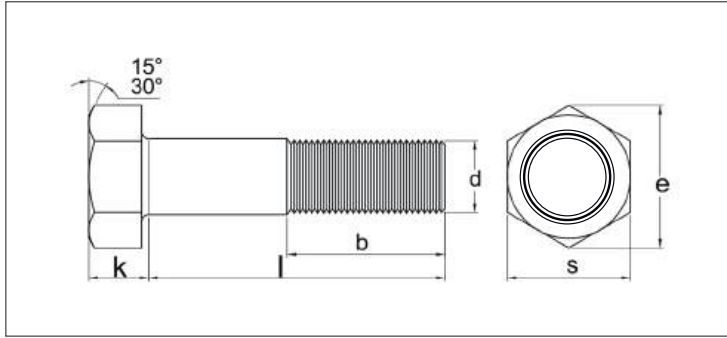
Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI METRİK İNCE DİŞ YARIM PASO CIVATA

HEXAGON HEAD BOLT METRIC PARTIAL FINE THREAD

SECHSKANTSCHRAUBE MIT FEINGEWİNDE



**DIN EN  
ISO**

**UNI**

**DIN**

**8765**

**5738**

**960**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1  
ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d |                         |         | M18   | M20   | M22   | M24   | M27   |
|---|-------------------------|---------|-------|-------|-------|-------|-------|
| p |                         |         | 1,50  | 1,50  | 1,50  | 2,00  | 2,00  |
| s |                         | max     | 27,00 | 30,00 | 32,00 | 36,00 | 41,00 |
|   | Grade A                 | min     | 26,67 | 29,67 | 31,61 | 35,38 |       |
|   | Grade B                 | min     | 26,16 | 29,16 | 31,00 | 35,00 | 40,00 |
| k |                         | nominal | 11,50 | 12,50 | 14,00 | 15,00 | 17,00 |
|   | Grade A                 | max     | 11,72 | 12,72 | 14,22 | 15,22 |       |
|   |                         | min     | 11,28 | 12,28 | 13,78 | 14,78 |       |
|   | Grade B                 | max     | 11,85 | 12,85 | 14,35 | 15,35 | 17,35 |
|   |                         | min     | 11,15 | 12,15 | 13,65 | 14,65 | 16,65 |
|   |                         |         |       |       |       |       |       |
| e | Grade A                 | min     | 30,14 | 33,53 | 35,72 | 39,98 |       |
|   | Grade B                 | min     | 29,56 | 32,95 | 35,03 | 39,55 | 45,20 |
| b | l ≤ 125                 |         | 42,00 | 46,00 | 50,00 | 54,00 | 60,00 |
|   | l > 125 (125 < l ≤ 200) |         | 48,00 | 52,00 | 56,00 | 60,00 | 66,00 |
|   | l > 200                 |         | 61,00 | 65,00 | 69,00 | 73,00 | 79,00 |

| l   | min    | max    | M18    | M20    | M22    | M24    | M27     |
|-----|--------|--------|--------|--------|--------|--------|---------|
| 60  | 59,40  | 60,60  | 169,00 | 216,00 | 263,00 | 298,00 |         |
| 65  | 64,40  | 65,60  | 179,00 | 228,00 | 278,00 | 326,00 |         |
| 70  | 69,40  | 70,60  | 189,00 | 240,00 | 293,00 | 354,00 | 510,00  |
| 75  | 74,40  | 75,60  | 199,00 | 253,00 | 308,00 | 382,00 |         |
| 80  | 79,40  | 80,60  | 209,00 | 265,00 | 323,00 | 410,00 | 553,00  |
| 85  | 84,30  | 85,70  | 219,00 | 277,00 | 338,00 |        |         |
| 90  | 89,30  | 90,70  | 229,00 | 290,00 | 353,00 | 445,00 | 597,00  |
| 100 | 99,30  | 100,70 | 249,00 | 314,00 | 383,00 | 481,00 | 642,00  |
| 110 | 109,30 | 110,70 | 269,00 | 339,00 | 413,00 | 517,00 | 687,00  |
| 120 | 119,30 | 120,70 | 289,00 | 363,00 | 443,00 | 552,00 | 732,00  |
| 130 | 129,20 | 130,80 | 308,00 | 387,00 | 473,00 | 588,00 | 777,00  |
| 140 | 139,20 | 140,80 | 328,00 | 412,00 | 502,00 | 623,00 | 822,00  |
| 150 | 149,20 | 150,80 | 348,00 | 437,00 | 532,00 | 659,00 | 867,00  |
| 160 | 159,20 | 160,80 | 368,00 | 461,00 | 562,00 | 694,00 | 912,00  |
| 170 | 169,20 | 170,80 | 388,00 | 486,00 | 592,00 | 730,00 | 975,00  |
| 180 | 179,20 | 180,80 | 408,00 | 510,00 | 621,00 | 765,00 | 1000,00 |
| 190 | 189,80 | 190,92 | 428,00 | 535,00 | 651,00 | 800,00 | 1050,00 |
| 200 | 199,10 | 200,90 | 448,00 | 560,00 | 681,00 | 836,00 | 1090,00 |
| 210 | 209,10 | 210,90 |        |        |        |        |         |
| 220 | 217,70 | 222,30 | 498,00 |        |        |        |         |
| 240 | 237,70 | 242,30 | 538,00 |        |        |        |         |
| 260 | 257,40 | 262,60 | 578,00 |        |        |        |         |
| 280 | 277,40 | 282,60 | 618,00 |        |        |        |         |
| 300 | 297,40 | 302,60 |        |        |        |        |         |
|     |        |        |        |        |        |        |         |
|     |        |        |        |        |        |        |         |
|     |        |        |        |        |        |        |         |

Değerler milimetre olarak verilmiştir.

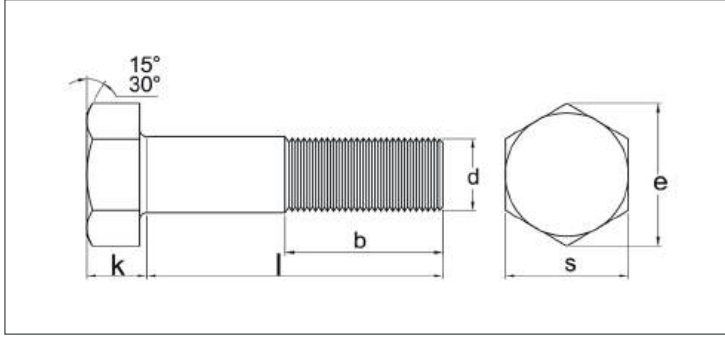
Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI METRİK İNCE DİŞ TAM PASO CIVATA

HEXAGON HEAD BOLT METRIC FULL FINE THREAD

SECHSKANTSCHRAUBE MIT FEINGEWINDE BIS KOPF



**DIN EN  
ISO**

**UNI**

**DIN**

**8676**

**5740**

**961**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**898-1  
ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d |         |         | M8    | M10            | M10   | M12            | M12   | M14   | M16   | M18   |
|---|---------|---------|-------|----------------|-------|----------------|-------|-------|-------|-------|
| p |         |         | 1,00  | "1,00<br>1,25" | 1,25  | "1,25<br>1,50" | 1,50  | 1,50  | 1,50  | 1,50  |
| s |         | max     | 13,00 | 17,00          | 17,00 | 19,00          | 18,00 | 22,00 | 24,00 | 27,00 |
|   | Grade A | min     | 12,73 | 16,73          |       | 18,67          |       | 21,67 | 23,67 | 26,67 |
|   | Grade B | min     | 12,57 | 16,57          |       | 18,48          |       | 21,16 | 23,16 | 26,16 |
| k |         | nominal | 5,30  | 6,40           |       | 7,50           |       | 8,80  | 10,00 | 11,50 |
|   | Grade A | max     | 5,45  | 6,58           | 6,40  | 7,68           | 7,50  | 8,98  | 10,18 | 11,72 |
|   |         | min     | 5,15  | 6,22           |       | 7,32           |       | 8,62  | 9,82  | 11,28 |
|   | Grade B | max     | 5,54  | 6,69           |       | 7,79           |       | 9,09  | 10,29 | 11,85 |
|   |         | min     | 5,06  | 6,11           |       | 7,21           |       | 8,51  | 9,71  | 11,15 |
| e | Grade A | min     | 14,38 | 18,90          |       | 21,10          |       | 24,49 | 26,75 | 30,14 |
|   | Grade B | min     | 14,20 | 18,72          | 18,90 | 20,88          | 20,03 | 23,91 | 26,17 | 29,56 |
|   |         |         |       |                |       |                |       |       |       |       |
|   |         |         |       |                |       |                |       |       |       |       |
|   |         |         |       |                |       |                |       |       |       |       |

| l   | min   | max    | M8    | M10   | M10   | M12   | M12   | M14    | M16    | M18    |
|-----|-------|--------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10  | 9,71  | 10,29  | 9,20  |       |       |       |       |        |        |        |
| 12  | 11,65 | 12,35  | 9,80  |       |       |       |       |        |        |        |
| 14  | 13,65 | 14,35  | 10,40 |       |       |       |       |        |        |        |
| 16  | 15,65 | 16,35  | 11,10 | 21,30 | 21,30 | 30,00 |       |        |        |        |
| 18  | 17,65 | 18,35  | 11,80 | 22,40 | 22,40 | 31,30 |       |        |        |        |
| 20  | 19,58 | 20,42  | 12,40 | 23,50 | 23,50 | 32,90 | 32,90 | 49,00  | 66,00  |        |
| 22  | 21,58 | 22,42  | 13,00 | 24,60 | 24,60 | 34,30 |       |        |        |        |
| 25  | 24,58 | 25,42  | 14,10 | 26,20 | 26,20 | 36,60 | 36,60 | 54,00  | 72,00  |        |
| 30  | 29,58 | 30,42  | 15,70 | 28,90 | 28,90 | 40,30 | 40,30 | 59,00  | 79,00  | 107,00 |
| 35  | 34,50 | 35,50  | 17,40 | 31,60 | 31,60 | 44,00 | 44,00 | 64,00  | 85,00  | 116,00 |
| 40  | 39,50 | 40,50  | 19,10 | 34,30 | 34,30 | 47,70 | 47,70 | 70,00  | 92,00  | 124,00 |
| 45  | 44,50 | 45,50  | 20,70 | 36,90 | 36,90 | 51,40 | 51,40 | 75,00  | 99,00  | 133,00 |
| 50  | 49,50 | 50,50  | 22,30 | 39,60 | 39,60 | 55,00 | 55,00 | 80,00  | 106,00 | 142,00 |
| 55  | 54,40 | 55,60  | 24,00 |       | 42,30 | 58,70 |       | 85,00  | 113,00 | 151,00 |
| 60  | 59,40 | 60,60  | 25,70 |       | 45,10 | 62,40 | 62,40 | 91,00  | 120,00 | 160,00 |
| 65  | 64,40 | 65,60  |       |       | 47,80 | 66,20 |       | 96,00  | 127,00 | 168,00 |
| 70  | 69,40 | 70,60  |       |       | 50,50 | 70,00 |       | 101,00 | 134,00 | 177,00 |
| 75  | 74,40 | 75,60  |       |       | 53,20 | 73,60 |       | 106,00 | 141,00 | 185,00 |
| 80  | 79,40 | 80,60  |       |       | 55,80 | 77,40 |       | 111,00 | 148,00 | 195,00 |
| 90  | 89,30 | 90,70  |       |       | 61,20 | 84,80 |       | 122,00 | 162,00 | 212,00 |
| 100 | 99,30 | 100,70 |       |       |       | 92,20 | 92,20 | 133,00 | 176,00 | 229,00 |
|     |       |        |       |       |       |       |       |        |        |        |
|     |       |        |       |       |       |       |       |        |        |        |
|     |       |        |       |       |       |       |       |        |        |        |
|     |       |        |       |       |       |       |       |        |        |        |
|     |       |        |       |       |       |       |       |        |        |        |

Değerler milimetre olarak verilmiştir.

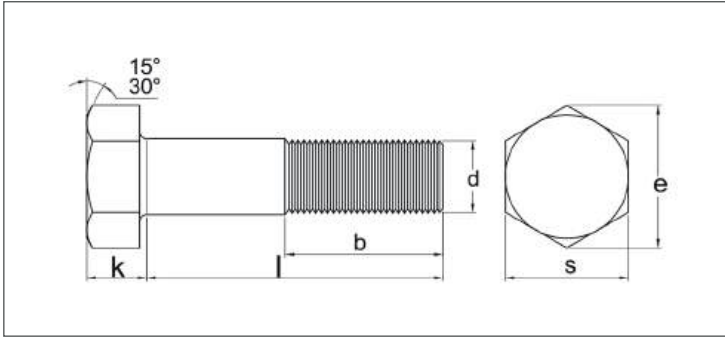
Values are given in millimeters.

Werte sind in millimetern angegeben.

## ALTİKÖŞE BAŞLI METRİK İNCE DİŞ TAM PASO CIVATA

## HEXAGON HEAD BOLT METRIC FULL FINE THREAD

## SECHSKANTSCHRAUBE MIT FEINGEWINDE BIS KOPF



|                                                                                                                  |             |                                   |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|
| <b>DIN EN<br/>ISO</b>                                                                                            | <b>UNI</b>  | <b>DIN</b>                        |
| <b>8676</b>                                                                                                      | <b>5740</b> | <b>961</b>                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>898-1</b><br><b>ISO 4759-1</b> |

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

| d       |         |         | M20   | M22   | M24   | M27   | M30   |
|---------|---------|---------|-------|-------|-------|-------|-------|
| p       |         |         | 1,50  | 1,50  | 2,00  | 2,00  | 2,00  |
| s       |         | max     | 30,00 | 32,00 | 36,00 | 41,00 | 46,00 |
|         | Grade A | min     | 29,67 | 31,61 | 35,38 |       |       |
|         | Grade B | min     | 29,16 | 31,00 | 35,00 | 40,00 | 45,00 |
| k       |         | nominal | 12,50 | 14,00 | 15,00 | 17,00 | 18,70 |
|         | Grade A | max     | 12,72 | 14,22 | 15,22 |       |       |
|         |         | min     | 12,28 | 13,78 | 14,78 |       |       |
|         | Grade B | max     | 12,85 | 14,35 | 15,35 | 17,35 | 19,12 |
|         |         | min     | 12,15 | 13,65 | 14,65 | 16,65 | 18,28 |
|         | e       | Grade A | min   | 33,53 | 35,72 | 39,98 |       |
| Grade B |         | min     | 32,95 | 35,03 | 39,55 | 45,20 | 50,85 |

[illegible]

Değerler milimetre olarak verilmiştir.

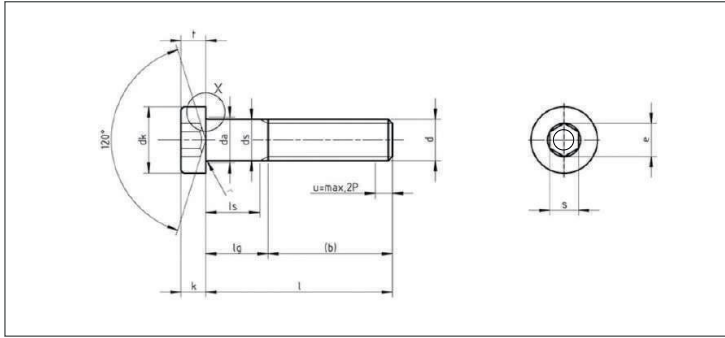
Values are given in millimeters.

Werte sind in millimetern angegeben.

# İNCE KAFA İMBUS CIVATA

HEXAGON SOCKET THIN HEAD CAP SCREW

INNENSECHSKANTSCHRAUBE MIT DÜNNEN KOPF



| ISO                                                                                                              | UNI | DIN                 |
|------------------------------------------------------------------------------------------------------------------|-----|---------------------|
| -                                                                                                                | -   | 6912                |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | 898-1<br>ISO 4759-1 |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d  |                         | M5    | M6    | M8    | M10   | M12   | M14   | M16   |
|----|-------------------------|-------|-------|-------|-------|-------|-------|-------|
| p  |                         |       |       |       |       |       |       |       |
| dk | max                     | 8,50  | 10,00 | 13,00 | 16,00 | 18,00 | 21,00 | 24,00 |
|    | min                     | 8,28  | 9,78  | 12,73 | 15,73 | 17,73 | 20,67 | 23,67 |
| k  | min                     | 3,50  | 4,00  | 5,00  | 6,50  | 7,50  | 8,50  | 10,00 |
|    | max                     | 3,32  | 3,82  | 4,82  | 6,50  | 7,50  | 8,50  | 10,00 |
| s  | nominal                 | 4,00  | 5,00  | 6,00  | 8,00  | 10,00 | 12,00 | 14,00 |
|    | min                     | 4,02  | 5,02  | 6,02  | 8,02  | 10,02 | 12,21 | 14,03 |
|    | max                     | 4,12  | 5,14  | 6,16  | 8,17  | 10,17 | 12,00 | 14,21 |
| e  | min                     | 4,58  | 5,72  | 6,86  | 9,15  | 11,43 | 13,72 | 16,00 |
| dh | min                     | 2,50  | 3,00  | 4,00  | 5,00  | 6,00  | 7,00  | 8,00  |
|    | max                     | 2,56  | 3,06  | 4,07  | 5,07  | 6,07  | 7,09  | 8,09  |
| t  | nominal                 | 2,00  | 2,50  | 3,00  | 3,50  | 4,00  | 4,50  | 5,50  |
|    | min                     | 1,88  | 2,38  | 2,88  | 3,35  | 3,85  | 4,35  | 5,35  |
|    | max                     | 2,12  | 2,62  | 3,12  | 3,65  | 4,15  | 4,65  | 5,65  |
| r  | min                     | 4,00  | 5,00  | 6,50  | 7,50  | 9,00  | 10,00 | 11,50 |
|    | max                     | 4,30  | 5,30  | 6,86  | 7,86  | 9,36  | 10,36 | 11,93 |
| b  | ≤ 125                   | 16,00 | 18,00 | 22,00 | 26,00 | 30,00 | 34,00 | 38,00 |
|    | 1 > 125 (125 < l ≤ 200) |       |       |       | 32,00 | 36,00 | 40,00 | 44,00 |
|    | l > 200                 |       |       |       |       |       |       | 57,00 |

| l   | min   | max    | M5   | M6    | M8    | M10   | M12   | M14    | M16   |
|-----|-------|--------|------|-------|-------|-------|-------|--------|-------|
| 10  | 9,71  | 10,29  | 2,20 | 3,60  |       |       |       |        |       |
| 12  | 11,65 | 12,35  | 2,50 | 3,90  | 7,70  |       |       |        |       |
| 14  | 13,65 | 14,35  | 2,80 | 4,20  | 8,20  |       |       |        |       |
| 16  | 15,65 | 16,35  | 3,10 | 4,50  | 8,80  | 15,50 | 22,30 |        |       |
| 18  | 17,58 | 18,42  | 3,40 | 4,80  | 9,50  |       |       |        |       |
| 20  | 19,58 | 20,42  | 3,70 | 5,10  | 10,20 | 17,00 | 25,50 | 37,90  | 52,60 |
| 25  | 24,58 | 25,42  | 4,40 | 6,20  | 12,50 | 20,20 | 29,50 | 42,50  | 56,50 |
| 30  | 29,58 | 30,42  | 5,10 | 7,30  | 14,00 | 22,00 | 32,50 | 48,00  | 63,00 |
| 35  | 34,50 | 35,50  | 5,80 | 8,30  | 15,70 | 25,50 | 36,50 | 53,00  | 69,70 |
| 40  | 39,50 | 40,50  | 6,50 | 9,50  | 17,50 | 28,50 | 40,00 | 58,00  |       |
| 45  | 44,50 | 45,50  | 7,20 | 10,50 | 19,50 | 31,60 | 44,00 | 63,00  |       |
| 50  | 49,50 | 50,50  | 7,90 | 11,50 | 21,50 | 34,80 | 48,00 | 69,50  |       |
| 55  | 54,40 | 55,60  | 8,60 | 12,50 | 23,40 | 37,50 | 52,00 | 75,50  |       |
| 60  | 59,40 | 60,60  | 9,30 | 13,60 | 25,30 | 40,30 | 57,00 | 82,00  |       |
| 70  | 69,40 | 70,60  |      | 15,80 | 29,10 | 46,00 | 65,00 | 92,50  |       |
| 80  | 79,40 | 80,60  |      | 17,90 | 32,80 | 52,50 | 72,00 | 104,00 |       |
| 90  | 89,30 | 90,70  |      |       |       | 57,80 | 80,00 | 116,00 |       |
| 100 | 99,30 | 100,70 |      |       |       |       | 88,00 | 127,00 |       |
|     |       |        |      |       |       |       |       |        |       |
|     |       |        |      |       |       |       |       |        |       |
|     |       |        |      |       |       |       |       |        |       |
|     |       |        |      |       |       |       |       |        |       |

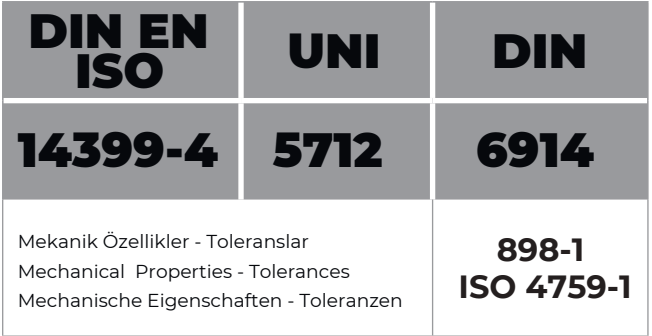
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

|                                                |                                                      |
|------------------------------------------------|------------------------------------------------------|
| <h1>ALTİKÖŞE BAŞLI KONSTRÜKSİYON CIVATASI</h1> |                                                      |
| <p>HIGH STRENGTH HEXAGON HEAD BOLTS</p>        | <p>SECHSKANTSCHRAUBE MIT GROSSEN SCHLÜSSELWEITEN</p> |

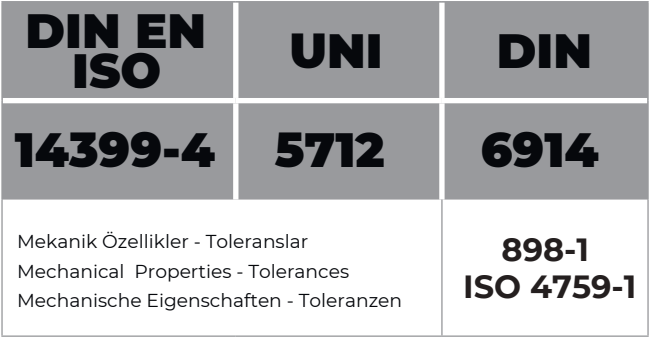
## SECHSKANTSCHRAUBE MIT GROSSEN SCHLÜSSELWEITEN

[illegible]

Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI KONSTRÜKSİYON CIVATASI

## SECHSKANTSCHRAUBE MIT GROSSEN SCHLÜSSELWEITEN

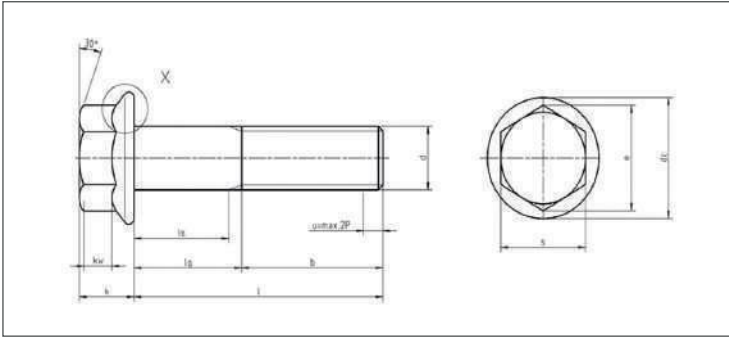
[illegible]

Werte sind in millimetern angegeben.

## ALTIKÖŞE BAŞLI FLANŞLI CIVATA

HEXAGON HEAD FLANGE BOLTS SECHSKANTSCHRAUBE MIT FLANSCH

HEXAGON HEAD FLANGE BOLTS SECHSKANTSCHRAUBE MIT FLANSCH



| EN                                                                                                               | UNI | DIN                        |
|------------------------------------------------------------------------------------------------------------------|-----|----------------------------|
| 1665                                                                                                             | -   | 6921                       |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | 898-1<br><b>ISO 4759-1</b> |

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

| d              |                       | M4   | M5    | M6    | M8    | M10   | M12   |
|----------------|-----------------------|------|-------|-------|-------|-------|-------|
| p              |                       | 0,70 | 0,80  | 1,00  | 1,25  | 1,50  | 1,75  |
| s              | max                   | 7,00 | 8,00  | 10,00 | 13,00 | 15,00 | 16,00 |
|                | min                   |      | 7,78  | 9,78  | 12,73 | 14,73 | 15,73 |
| e              | max                   |      | 8,71  | 10,95 | 14,26 | 16,50 | 17,62 |
| k              | max                   | 4,00 | 5,40  | 6,60  | 8,10  | 9,20  | 11,50 |
| d <sub>c</sub> | max                   | 9,50 | 11,80 | 14,20 | 18,00 | 22,30 | 26,60 |
| b              | b l ≤ 125             |      | 16,00 | 18,00 | 22,00 | 26,00 | 30,00 |
|                | b l >125 (125<l≤ 200) |      |       |       | 28,00 | 32,00 | 36,00 |
|                | b l > 200             |      |       |       |       |       |       |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

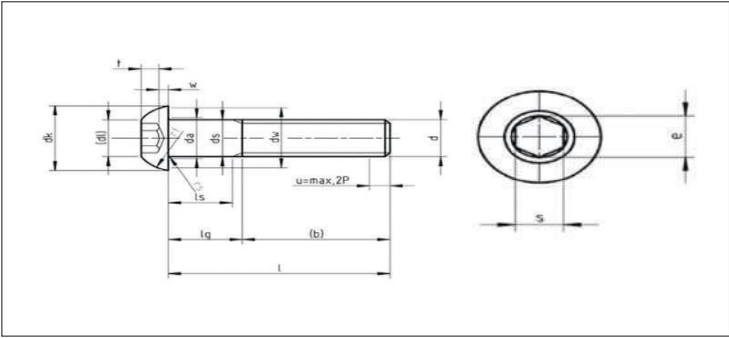
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## BOMBE BAŞLI İMBUS CIVATA

BUTTON HEAD SOCHET SCREWS LINSENKOPFSCHRAUBE MIT INNENSECHSKANT

BUTTON HEAD SOCHET SCREWS LINSENKOPFSCHRAUBE MIT INNENSECHSKANT



| ISO                                                                                                              | UNI | DIN                               |
|------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------|
| <b>7380</b>                                                                                                      | -   | -                                 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>898-1</b><br><b>ISO 4759-1</b> |

| d  |         | M3   | M4   | M5   | M6    | M8    | M10   | M12   |
|----|---------|------|------|------|-------|-------|-------|-------|
| p  |         | 0,50 | 0,70 | 0,80 | 1,00  | 1,25  | 1,50  | 1,75  |
| dk | max     | 5,70 | 7,60 | 9,50 | 10,50 | 14,00 | 17,50 | 21,00 |
|    | min     | 5,40 | 7,24 | 9,14 | 10,07 | 13,57 | 17,07 | 20,48 |
| k  | max     | 1,65 | 2,20 | 2,75 | 3,30  | 4,40  | 5,50  | 6,60  |
|    | min     | 1,40 | 1,95 | 2,50 | 3,00  | 4,10  | 5,20  | 6,24  |
|    | nominal | 2,00 | 2,50 | 3,00 | 4,00  | 5,00  | 6,00  | 8,00  |
| s  | max     | 2,04 | 2,56 | 3,07 | 4,08  | 5,08  | 6,09  | 8,11  |
|    | min     | 2,02 | 2,52 | 3,02 | 4,02  | 5,02  | 6,02  | 8,02  |
| t  | min     | 1,04 | 1,30 | 1,56 | 2,08  | 2,60  | 3,20  | 4,16  |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

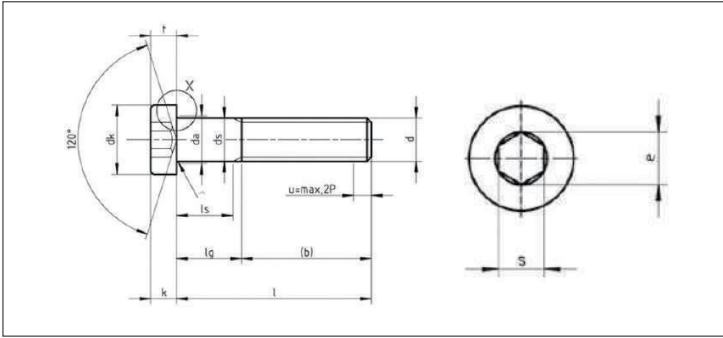
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# İNCE KAFA İMBUS CIVATA

## BUTTON HEAD SOCHET SCREWS

## LINSENKOPFSCHRAUBE MIT INNENSECHSKANT



|                                                                                                                  |             |                                   |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                        |
| <b>-</b>                                                                                                         | <b>9327</b> | <b>7984</b>                       |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>898-1</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |                       | TECHNICAL INFORMATIONS |       |       |       | TECHNISCHE INFORMATION |       |       |
|-----------------|-----------------------|------------------------|-------|-------|-------|------------------------|-------|-------|
| d               |                       | M4                     | M5    | M6    | M8    | M10                    | M12   | M16   |
| p               |                       | 0,70                   | 0,80  | 1,00  | 1,25  | 1,50                   | 1,75  | 2,00  |
| dk              | max                   | 7,00                   | 8,50  | 10,00 | 13,00 | 16,00                  | 18,00 | 24,00 |
|                 | min                   | 6,78                   | 8,28  | 9,78  | 12,73 | 15,73                  | 17,73 | 23,67 |
| k               | max                   | 2,80                   | 3,50  | 4,00  | 5,00  | 6,00                   | 7,00  | 9,00  |
|                 | min                   | 2,66                   | 3,32  | 3,82  | 4,82  | 5,82                   | 6,78  | 8,78  |
| s               | nominal               | 2,50                   | 3,00  | 4,00  | 5,00  | 7,00                   | 8,00  | 12,00 |
|                 | min                   | 2,52                   | 3,02  | 4,02  | 5,02  | 7,02                   | 8,02  | 12,03 |
|                 | max                   | 2,60                   | 3,10  | 4,12  | 5,14  | 7,17                   | 8,17  | 12,21 |
| e               | min                   | 2,87                   | 3,44  | 4,58  | 5,72  | 8,01                   | 9,15  | 11,43 |
| t               | nominal               | 2,30                   | 2,70  | 3,00  | 3,80  | 4,50                   | 5,00  | 5,50  |
|                 | min                   | 2,18                   | 2,58  | 2,88  | 3,65  | 4,35                   | 4,85  | 5,35  |
|                 | max                   | 2,42                   | 2,82  | 3,12  | 3,95  | 4,65                   | 5,15  | 5,65  |
| b               | b l ≤ 125             | 14,00                  | 16,00 | 18,00 | 22,00 | 26,00                  | 30,00 | 38,00 |
|                 | b l >125 (125<l≤ 200) |                        |       |       | 28,00 | 32,00                  | 36,00 | 44,00 |
|                 | b l > 200             |                        |       |       |       |                        |       | 57,00 |

[illegible]

Değerler milimetre olarak verilmiştir.

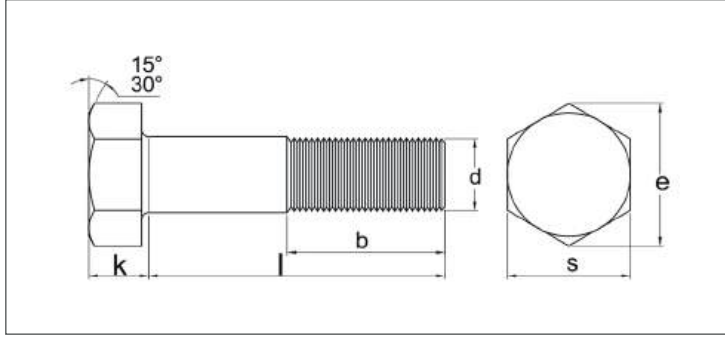
Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALTI KÖŞE BAŞLI ÇELİK KONSTRÜKSİYON CIVATA

HEXAGON SOCKET COUNTERSUNK HEAD CAP SCREWS

SENKSCHRAUBEN MIT INNENSECHSKANT



| ISO                                                                                                              | UNI | DIN                     |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| -                                                                                                                | -   | 7990                    |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | ISO 898-1<br>ISO 4759-1 |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d |              | M12   | M16   | M20   | M22   | M24   | M27   | M30   |
|---|--------------|-------|-------|-------|-------|-------|-------|-------|
| p |              | 1,75  | 2,00  | 2,50  | 2,50  | 3,00  | 3,00  | 3,50  |
| k | Nominal Size | 8,00  | 10,00 | 13,00 | 14,00 | 15,00 | 17,00 | 19,00 |
|   | max          | 8,45  | 10,75 | 13,90 | 14,90 | 15,90 | 17,90 | 20,05 |
|   | min          | 7,55  | 9,25  | 12,10 | 13,10 | 14,10 | 16,10 | 17,95 |
| s | max          | 19,00 | 24,00 | 30,00 | 32,00 | 36,00 | 41,00 | 46,00 |
|   | min          | 18,48 | 23,16 | 29,16 | 31,00 | 35,00 | 40,00 | 45,00 |
| e | min          | 20,88 | 26,17 | 32,95 | 35,03 | 39,55 | 45,20 | 50,85 |
| b |              | 17,75 | 21,00 | 23,50 | 25,50 | 26,00 | 29,00 | 30,50 |

| l   | min    | max    | M12                   | M16    | M20    | M22    | M24    | M27     | M30     |
|-----|--------|--------|-----------------------|--------|--------|--------|--------|---------|---------|
|     |        |        | Weight / Ağırlık gr/p |        |        |        |        |         |         |
| 30  | 28,95  | 31,05  | 58,80                 |        |        |        |        |         |         |
| 35  | 33,75  | 36,25  | 63,20                 | 119,00 |        |        |        |         |         |
| 40  | 38,75  | 41,25  | 67,60                 | 127,00 | 240,00 | 284,00 |        |         |         |
| 45  | 43,75  | 46,25  | 72,00                 | 135,00 | 252,00 | 299,00 | 377,00 |         |         |
| 50  | 48,75  | 51,25  | 76,40                 | 143,00 | 264,00 | 314,00 | 395,00 |         |         |
| 55  | 53,50  | 56,50  | 80,80                 | 151,00 | 276,00 | 329,00 | 413,00 |         |         |
| 60  | 58,50  | 61,50  | 85,20                 | 159,00 | 288,00 | 344,00 | 431,00 | 595,00  |         |
| 65  | 63,50  | 66,50  | 89,60                 | 167,00 | 300,00 | 359,00 | 449,00 | 617,00  |         |
| 70  | 68,50  | 71,50  | 94,00                 | 175,00 | 312,00 | 374,00 | 467,00 | 639,00  |         |
| 75  | 73,50  | 76,50  | 98,40                 | 183,00 | 324,00 | 389,00 | 485,00 | 661,00  |         |
| 80  | 78,50  | 81,50  | 102,00                | 191,00 | 336,00 | 404,00 | 503,00 | 683,00  | 902,00  |
| 85  | 83,25  | 86,75  | 106,00                | 199,00 | 348,00 | 419,00 | 521,00 | 705,00  | 930,00  |
| 90  | 88,25  | 91,75  | 110,00                | 207,00 | 360,00 | 434,00 | 539,00 | 727,00  | 958,00  |
| 95  | 93,25  | 96,75  | 114,00                | 215,00 | 372,00 | 449,00 | 557,00 | 749,00  | 986,00  |
| 100 | 98,25  | 101,75 | 118,00                | 223,00 | 384,00 | 464,00 | 575,00 | 771,00  | 1014,00 |
| 105 | 103,25 | 106,75 | 122,00                | 231,00 | 396,00 | 479,00 | 593,00 | 793,00  | 1042,00 |
| 110 | 108,25 | 111,75 | 126,00                | 239,00 | 408,00 | 494,00 | 611,00 | 815,00  | 1070,00 |
| 115 | 113,25 | 116,75 | 130,00                | 247,00 | 420,00 | 509,00 | 629,00 | 837,00  | 1098,00 |
| 120 | 118,25 | 121,75 | 134,00                | 255,00 | 432,00 | 524,00 | 647,00 | 859,00  | 1126,00 |
| 125 | 123,00 | 127,00 |                       | 263,00 | 444,00 | 539,00 | 665,00 | 881,00  | 1154,00 |
| 130 | 128,00 | 132,00 |                       | 271,00 | 456,00 | 554,00 | 683,00 | 903,00  | 1182,00 |
| 135 | 133,00 | 137,00 |                       | 279,00 | 468,00 | 569,00 | 701,00 | 925,00  | 1210,00 |
| 140 | 138,00 | 142,00 |                       | 287,00 | 480,00 | 584,00 | 719,00 | 947,00  | 1238,00 |
| 145 | 143,00 | 147,00 |                       | 295,00 | 492,00 | 599,00 | 737,00 | 969,00  | 1266,00 |
| 150 | 148,00 | 152,00 |                       | 303,00 | 504,00 | 614,00 | 755,00 | 991,00  | 1294,00 |
| 155 | 151,00 | 159,00 |                       |        | 516,00 | 629,00 | 773,00 | 1013,00 | 1322,00 |
| 160 | 156,00 | 164,00 |                       |        | 528,00 | 644,00 | 791,00 | 1035,00 | 1350,00 |
| 165 | 161,00 | 169,00 |                       |        | 540,00 | 659,00 | 809,00 | 1057,00 | 1378,00 |
| 170 | 166,00 | 174,00 |                       |        | 552,00 | 674,00 | 827,00 | 1079,00 | 1406,00 |
| 175 | 171,00 | 179,00 |                       |        | 564,00 | 689,00 | 845,00 | 1101,00 | 1434,00 |
| 180 | 176,00 | 184,00 |                       |        |        | 704,00 | 863,00 | 1123,00 | 1462,00 |
| 185 | 180,40 | 189,60 |                       |        |        | 719,00 | 881,00 | 1145,00 | 1490,00 |
| 190 | 185,40 | 194,60 |                       |        |        | 734,00 | 899,00 | 1167,00 | 1518,00 |
| 195 | 190,40 | 199,60 |                       |        |        | 749,00 | 917,00 | 1189,00 | 1546,00 |
| 200 | 195,40 | 204,60 |                       |        |        | 764,00 | 935,00 | 1211,00 | 1574,00 |

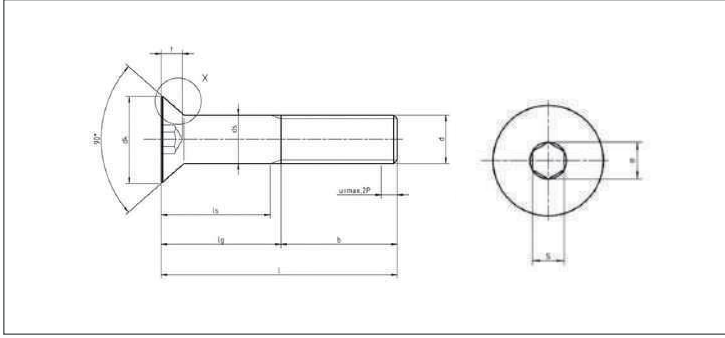
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# HAVŞA BAŞ İMBUS CIVATA TAM PASO

HEXAGON SOCKET COUNTERSUNK HEAD CAP SCREWS FULL THREAD SENKSCHRAUBEN MIT INNENSECHSKANT



| DIN EN ISO                                                                                                       | UNI | DIN                 |
|------------------------------------------------------------------------------------------------------------------|-----|---------------------|
| 10642                                                                                                            | -   | 7991                |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | 898-1<br>ISO 4759-1 |

## TEKNİK BİLGİLER TECHNICAL INFORMATION TECHNISCHE INFORMATION

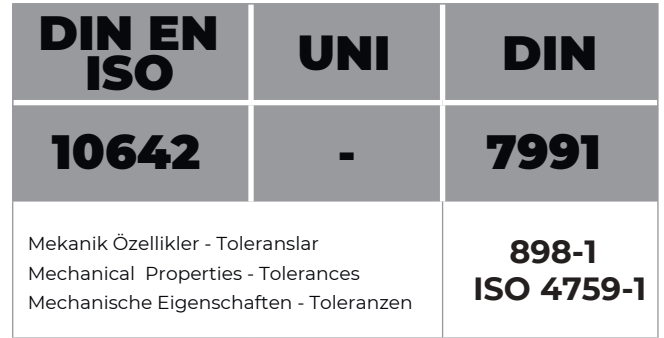
| d  |         | M3   | M4   | M5    | M6    | M8    | M10   | M12   | M14   | M16   | M18   | M20   | M24   |
|----|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| p  | nominal | 2,00 | 2,50 | 3,00  | 4,00  | 5,00  | 6,00  | 8,00  | 10,00 | 10,00 | 12,00 | 12,00 | 14,00 |
| s  | min     | 2,02 | 2,52 | 3,02  | 4,02  | 5,02  | 6,02  | 8,02  | 10,02 | 10,02 | 12,03 | 12,03 | 14,03 |
|    | max     | 2,10 | 2,60 | 3,10  | 4,12  | 5,14  | 6,14  | 8,17  | 10,17 | 10,17 | 12,21 | 12,21 | 14,21 |
| e  | min     | 2,30 | 2,87 | 3,44  | 4,58  | 5,72  | 6,86  | 9,15  | 11,43 | 11,43 | 13,72 | 13,72 | 16,00 |
|    | max     | 6,00 | 8,00 | 10,00 | 12,00 | 16,00 | 20,00 | 24,00 | 27,00 | 30,00 | 33,00 | 36,00 | 39,00 |
| dk | min     | 5,70 | 7,64 | 9,64  | 11,57 | 15,57 | 19,48 | 23,48 | 26,48 | 29,48 | 32,38 | 35,38 | 38,38 |
| k  | max     | 1,70 | 2,30 | 2,80  | 3,30  | 4,40  | 5,50  | 6,50  | 7,00  | 7,50  | 8,00  | 8,50  | 14,00 |
| t  | max     | 1,20 | 1,80 | 2,30  | 2,50  | 3,50  | 4,40  | 4,60  | 4,80  | 5,30  | 5,50  | 5,90  | 10,30 |
|    | min     | 0,95 | 1,55 | 2,05  | 2,25  | 3,20  | 4,10  | 4,30  | 4,50  | 5,00  | 5,20  | 5,60  | 9,87  |

| l   | min    | max    | M3   | M4   | M5   | M6    | M8    | M10   | M12   | M14   | M16    | M18    | M20    | M24    |
|-----|--------|--------|------|------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 6   |        |        | 0,38 | 0,77 |      |       |       |       |       |       |        |        |        |        |
| 8   | 7,71   | 8,29   | 0,47 | 0,92 | 1,60 | 2,35  |       |       |       |       |        |        |        |        |
| 10  | 9,71   | 10,29  | 0,56 | 1,07 | 1,85 | 2,70  | 5,47  |       |       |       |        |        |        |        |
| 12  | 11,65  | 12,35  | 0,65 | 1,23 | 2,10 | 3,05  | 6,10  | 10,10 |       |       |        |        |        |        |
| 14  | 13,65  | 14,35  | 0,72 | 1,42 | 2,22 | 3,25  | 6,40  | 11,00 |       |       |        |        |        |        |
| 16  | 15,65  | 16,35  | 0,83 | 1,53 | 2,59 | 3,76  | 7,35  | 12,10 |       |       |        |        |        |        |
| 18  | 17,65  | 18,35  | 0,89 | 1,76 | 2,70 | 3,95  | 7,64  | 12,90 |       |       |        |        |        |        |
| 20  | 19,58  | 20,42  | 1,00 | 1,84 | 3,09 | 4,46  | 8,60  | 14,10 | 21,20 |       |        |        |        |        |
| 22  | 21,58  | 22,42  | 1,15 | 1,98 | 3,25 | 4,65  | 9,56  | 15,30 |       |       |        |        |        |        |
| 25  | 24,58  | 25,42  | 1,35 | 2,23 | 3,71 | 5,34  | 10,20 | 16,60 | 24,80 | 32,60 |        |        |        |        |
| 30  | 29,58  | 30,42  | 1,63 | 2,60 | 4,33 | 6,22  | 11,70 | 19,10 | 28,50 | 37,60 | 51,80  |        |        |        |
| 35  | 34,50  | 35,50  |      | 2,90 | 4,70 | 7,10  | 13,30 | 21,60 | 32,10 | 42,50 | 58,40  |        | 91,40  |        |
| 40  | 39,50  | 40,50  |      | 3,30 | 5,40 | 7,80  | 14,80 | 24,10 | 35,70 | 47,40 | 65,10  | 79,30  | 102,00 |        |
| 45  | 44,50  | 45,50  |      | 3,60 | 6,00 | 8,60  | 16,50 | 26,30 | 37,90 | 52,30 | 70,70  | 94,00  | 110,00 |        |
| 50  | 49,50  | 50,50  |      | 4,00 | 6,60 | 9,50  | 17,50 | 30,10 | 43,00 | 57,30 | 78,40  | 96,00  | 125,00 | 179,00 |
| 55  | 54,40  | 55,60  |      | 4,30 | 7,20 | 10,30 | 19,20 | 31,50 | 45,10 | 62,30 | 84,00  | 104,50 | 134,00 |        |
| 60  | 59,40  | 60,60  |      | 4,70 | 7,80 | 11,10 | 21,00 | 34,60 | 48,50 | 67,10 | 91,70  | 112,80 | 143,00 | 209,00 |
| 65  | 64,40  | 65,60  |      |      | 8,40 | 12,50 | 22,50 | 37,30 | 53,20 | 72,00 |        |        | 152,00 |        |
| 70  | 69,40  | 70,60  |      |      | 9,00 | 13,50 | 24,10 | 40,00 | 57,20 | 76,90 | 105,00 | 129,60 | 161,00 | 239,00 |
| 80  | 79,40  | 80,60  |      |      |      | 14,60 | 27,10 | 44,20 | 64,80 | 81,80 | 122,00 | 146,30 | 179,00 | 269,00 |
| 90  | 89,30  | 90,70  |      |      |      | 15,70 | 30,10 | 48,60 | 72,40 | 86,70 | 136,90 | 163,10 | 197,00 | 299,00 |
| 100 | 99,30  | 100,70 |      |      |      | 16,80 | 33,10 | 52,90 | 80,00 | 91,60 | 151,80 | 179,80 | 215,00 | 340,00 |
| 110 | 109,30 | 110,70 |      |      |      |       | 36,20 | 57,20 | 87,60 |       | 166,70 | 196,60 |        |        |
| 120 | 119,30 | 120,70 |      |      |      |       | 39,20 | 61,50 | 95,20 |       | 181,60 | 213,30 |        |        |
| 130 | 129,20 | 130,80 |      |      |      |       |       |       |       |       |        | 230,10 |        |        |
|     |        |        |      |      |      |       |       |       |       |       |        |        |        |        |
|     |        |        |      |      |      |       |       |       |       |       |        |        |        |        |
|     |        |        |      |      |      |       |       |       |       |       |        |        |        |        |
|     |        |        |      |      |      |       |       |       |       |       |        |        |        |        |
|     |        |        |      |      |      |       |       |       |       |       |        |        |        |        |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

[illegible]

|                                         |                                              |
|-----------------------------------------|----------------------------------------------|
| <h1>ALTİKÖŞE BAŞLI UNC-UNF CIVATA</h1>  |                                              |
| <p>HEXAGON HEAD BOLT UNC-UNF THREAD</p> | <p>SECHSKANTSCHRAUBE MIT UNC-UNF GEWINDE</p> |

## SECHSKANTSCHRAUBE MIT UNC-UNF GEWINDE



## ANSI B18 2.1

| TEKNIK BİLGİLER |                    | TECHNICAL INFORMATION |       |       |        |        |        | TECHNISCHE INFORMATION |        |         |        |
|-----------------|--------------------|-----------------------|-------|-------|--------|--------|--------|------------------------|--------|---------|--------|
| d               | inches             | 1/4"                  | 5/16" | 3/8"  | 7/16"  | 1/2"   | 9/16"  | 5/8"                   | 3/4"   | 7/8"    | 1"     |
| d               | mm                 | 6,35                  | 7,94  | 9,52  | 11,11  | 12,7   | 14,29  | 15,88                  | 19,05  | 22,22   | 25,4   |
| s (F)           | nominal            | 7/16"                 | 1/2"  | 9/16" | 5/8"   | 3/4"   | 13/16" | 15/16"                 | 1 1/8" | 1 5/16" | 1 1/2" |
|                 | min                | 0,425                 | 0,484 | 0,544 | 0,603  | 0,725  |        | 0,906                  | 1,088  | 1,269   | 1,450  |
|                 | max                | 0,438                 | 0,500 | 0,562 | 0,625  | 0,750  |        | 0,938                  | 1,125  | 1,312   | 1,500  |
| e (G)           | min                | 0,484                 | 0,552 | 0,620 | 0,687  | 0,826  |        | 1,033                  | 1,240  | 1,447   | 1,653  |
|                 | max                | 0,505                 | 0,577 | 0,650 | 0,722  | 0,866  |        | 1,083                  | 1,299  | 1,516   | 1,732  |
|                 | nominal            | 11/64"                | 7/32" | 1/4"  | 19/64" | 11/32" | 23/64" | 27/64"                 | 1/2"   | 37/64"  | 43/64" |
| k (H)           | min                | 0,150                 | 0,195 | 0,226 | 0,272  | 0,302  |        | 0,378                  | 0,455  | 0,531   | 0,591  |
|                 | max                | 0,188                 | 1,235 | 0,268 | 0,316  | 0,364  |        | 0,444                  | 0,524  | 0,604   | 0,700  |
|                 | 6 in. and shorter  | 0,750                 | 0,875 | 1,000 | 1,125  | 1,250  |        | 1,500                  | 1,750  | 2,000   | 2,250  |
| b (Lr)          | Over 6 in. Shorter | 1,000                 | 1,125 | 1,250 | 1,375  | 1,500  |        | 1,750                  | 2,000  | 2,250   | 2,500  |
|                 | (UNC)              | 20                    | 18    | 16    | 14     | 13     |        | 11                     | 10     | 9       | 8      |
| p               | (UNF)              | 28                    | 24    | 24    | 20     | 20     | 18     | 18                     | 16     | 14      | 12     |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

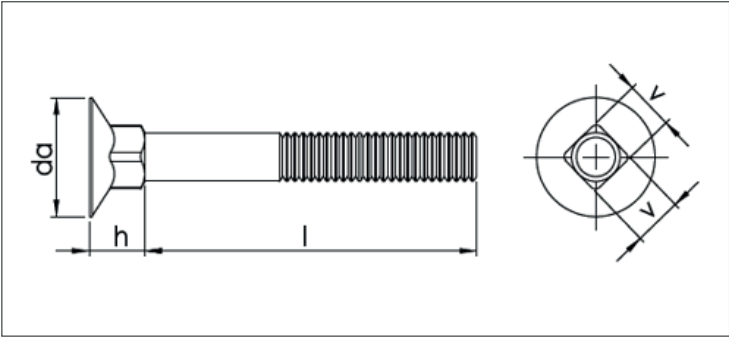
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## UNF / UNC BIÇAK CIVATASI CL 8.8

FLAT COUNTERSUNK SQUARE NECK BOLTS UNC      SENKSCHRAUBEN MIT HOHEM VIERKANTANSTZ

FLAT COUNTERSUNK SQUARE NECK BOLTS UNC      SENKSCHRAUBEN MIT HOHEM VIERKANTANSTZ



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER |     | TECHNICAL INFORMATION |       |       | TECHNISCHE INFORMATION |       |        |
|-----------------|-----|-----------------------|-------|-------|------------------------|-------|--------|
| P               | d   | 7/16                  | 5/8   | 3/4   | 7/8                    | 1"    | 1 1/4" |
|                 | UNC |                       | 11    | 10    | 9                      | 8     | 7      |
|                 | UNF | 20                    |       |       |                        |       |        |
|                 | h   | 9                     | 12,98 | 15,40 | 18,02                  | 19,65 | 26,00  |
|                 | da  | 20                    | 26,13 | 30,09 | 35,28                  | 40,06 | 51,00  |
|                 | v   | 11                    | 16,07 | 19,24 | 22,62                  | 25,80 | 27,75  |
|                 |     |                       |       |       |                        |       |        |
|                 |     |                       |       |       |                        |       |        |
|                 |     |                       |       |       |                        |       |        |
|                 |     |                       |       |       |                        |       |        |
|                 |     |                       |       |       |                        |       |        |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

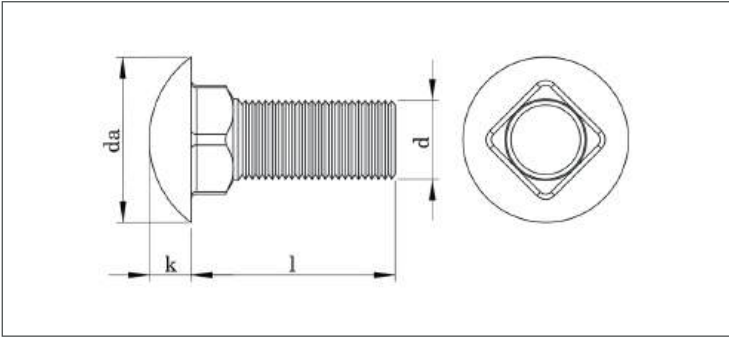
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## TAVA CIVATASI

MUSHROOM HEAD BOLT FLACHRUNDSCHRAUBE MIT VIERKANTANSATZ

MUSHROOM HEAD BOLT FLACHRUNDSCHRAUBE MIT VIERKANTANSATZ



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.



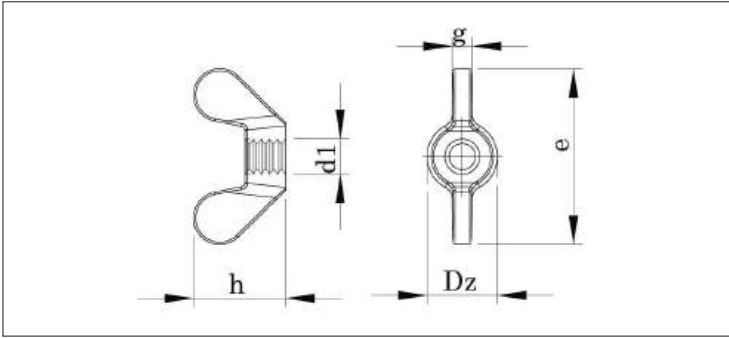
# **SOMUN GRUBU**

## NUTS

## KELEBEK SOMUN

WING NUT FLÜGELMÜTTERN

WING NUT FLÜGELMÜTTERN



| ISO                                                                                                              | UNI  | DIN                                                        |
|------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------|
| -                                                                                                                | 5448 | 315                                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | <b>ISO 898-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

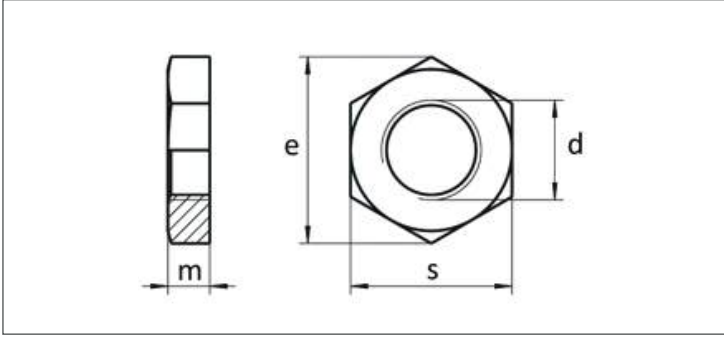
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## BORU SOMUNU

## PIPE NUT

ROHRMUTTER



| ISO                                                                                                              | UNI | DIN        |
|------------------------------------------------------------------------------------------------------------------|-----|------------|
| -                                                                                                                | -   | <b>431</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -          |

[illegible]

Değerler milimetre olarak verilmiştir.

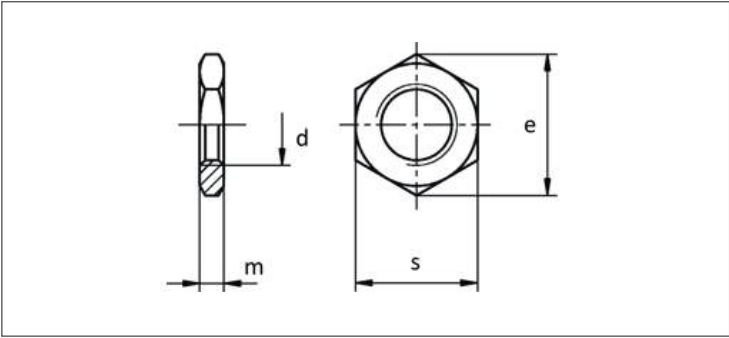
Values are given in millimeters.

Werte sind in millimetern angegeben.

## ALTİKÖŞE KONTRA SOMUN

HEXAGON-THIN NUTS SECHSKANTMUTTER, NIEDRIGE FORM

HEXAGON-THIN NUTS SECHSKANTMUTTER, NIEDRIGE FORM



# DIN EN ISO

**UNI**

**DIN**

4035

**439-2**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**ISO 898-2**  
**UNI 3740-4**  
**ISO 4759-1**

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNIK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

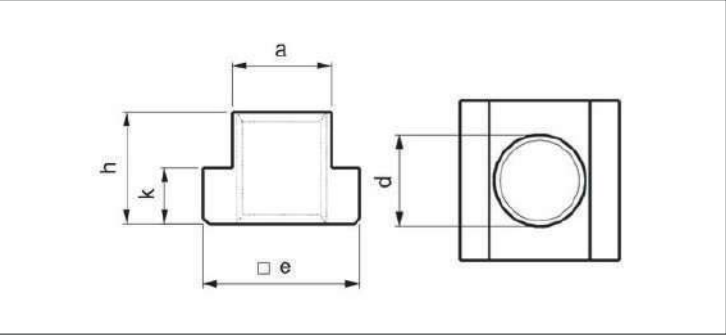
[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## T PAPUÇ SOMUN



| ISO                                                                                                              | UNI | DIN          |
|------------------------------------------------------------------------------------------------------------------|-----|--------------|
| -                                                                                                                | -   | <b>508 T</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -            |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

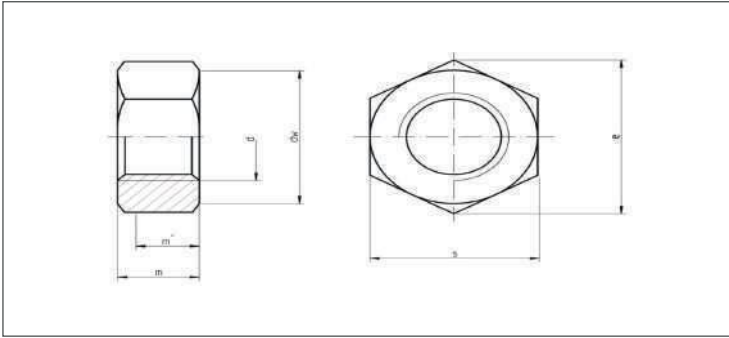
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## ALTI KÖŞE SOMUN

HEXAGON NUT SECHSKANTMUTTER

HEXAGON NUT SECHSKANTMUTTER



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| 4034                                                                                                             | -   | 555 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

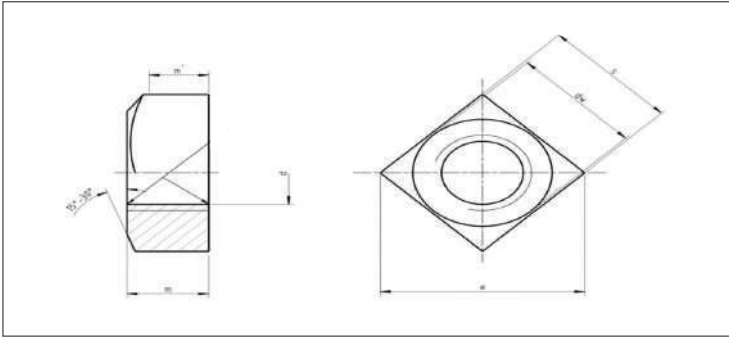
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## KARE SOMUN

SQUARE NUT VIERKANT MUTTER

SQUARE NUT VIERKANT MUTTER



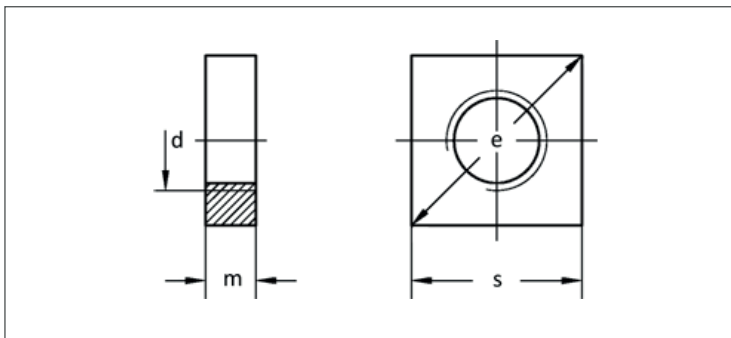
| ISO                                                                                                              | UNI         | DIN        |
|------------------------------------------------------------------------------------------------------------------|-------------|------------|
| -                                                                                                                | <b>5597</b> | <b>557</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | -          |

[illegible]

# İNCE KARE SOMUN

THIN SQUARE NUT

## DÜNNE VIERKANTMUTTER



| ISO                                                                                                              | UNI  | DIN                                                                             |
|------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------|
| -                                                                                                                | 5796 | 562                                                                             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | <b>DIN 267-24</b><br><b>ISO 898-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.

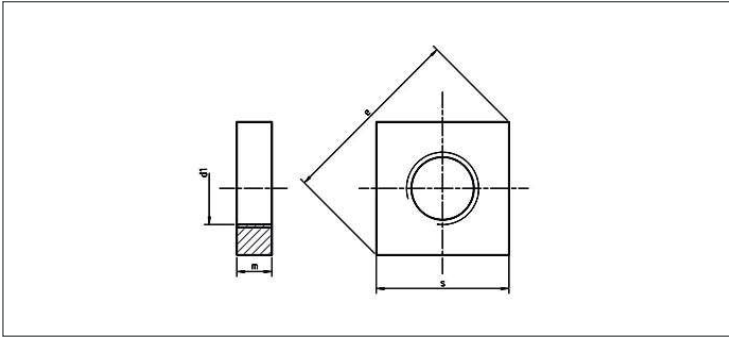
Values are given in millimeters.

Werte sind in millimetern angegeben.

## ANKRAJ SOMUNU

SPECIAL FOUNDATION SQUARE NUT      SPEZIELLE FUNDAMENT VIERKANT MUTTER

SPECIAL FOUNDATION SQUARE NUT      SPEZIELLE FUNDAMENT VIERKANT MUTTER



| ISO                                                                                                              | UNI | DIN        |
|------------------------------------------------------------------------------------------------------------------|-----|------------|
| -                                                                                                                | -   | <b>798</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -          |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

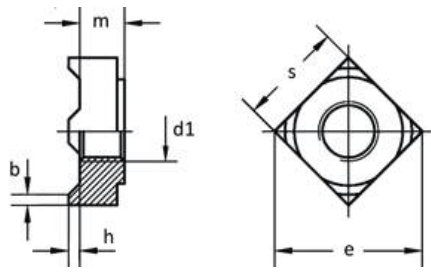
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## DÖRT KÖŞE KAYNAK SOMUNU

## SQUARE WELD NUT

## VIERKANT-SCHWEISSMUTTERN



|                                                                                                                  |            |                                                            |
|------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                                                 |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>928</b>                                                 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>DIN 267-1</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.

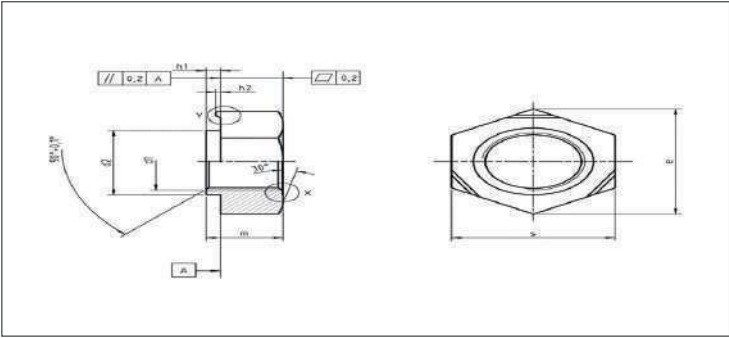
Values are given in millimeters.

Werte sind in millimetern angegeben.

## ALTI KÖŞE KAYNAK SOMUNU

HEXAGON WELD NUT SECHSKANT SCHWEISSMUTTERN

HEXAGON WELD NUT SECHSKANT SCHWEISSMUTTERN



|                                                                                                                  |            |                                                            |
|------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                                                 |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>929</b>                                                 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>DIN 267-1</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

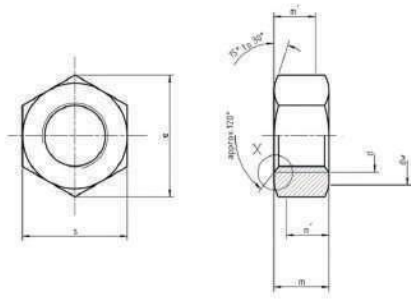
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# ALTİKÖŞE SOMUN

## HEXAGON NUT

## SECHSKANTMUTTERN



# DIN EN ISO

**UNI**

# DIN

**4032**

**5588**

934

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**DIN 267-4**  
**UNI 3740-4**  
**ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

[illegible][illegible]

Değerler milimetre olarak verilmiştir.

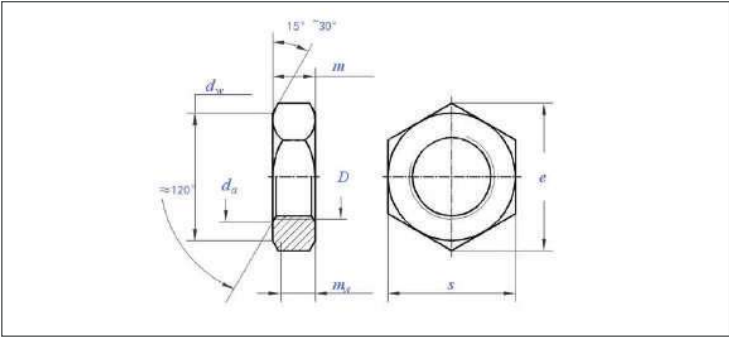
Values are given in millimeters.

Werte sind in millimetern angegeben.

## İNCE ALTİKÖŞE KONTRA SOMUN

HEXAGON THIN NUT SECHSKANTMUTTERN NIEDRIG

HEXAGON THIN NUT SECHSKANTMUTTERN NIEDRIG



# DIN EN ISO



**UNI**

**DIN**

**4035**

5589

936

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**DIN 267 - 24**  
**ISO 898-2**  
**UNI 3740-4**  
**ISO 4759-1**

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

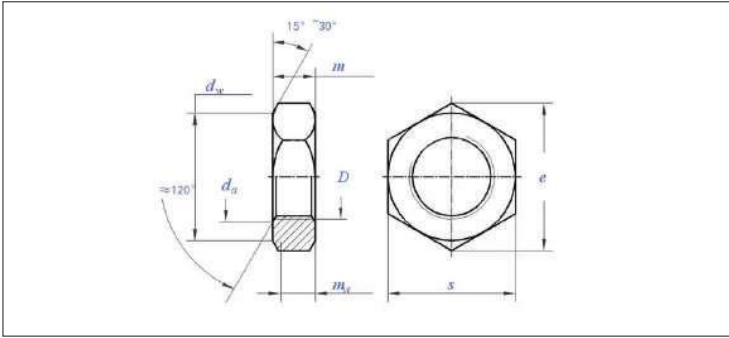
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## İNCE ALTİKÖŞE KONTRA SOMUN

HEXAGON THIN NUT SECHSKANTMUTTERN NIEDRIG

HEXAGON THIN NUT SECHSKANTMUTTERN NIEDRIG



|                                                                                                                  |             |                                                          |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                                               |
| <b>4035</b>                                                                                                      | <b>5589</b> | <b>936</b>                                               |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>DIN 267 UNI</b><br><b>3740-4 ISO</b><br><b>4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

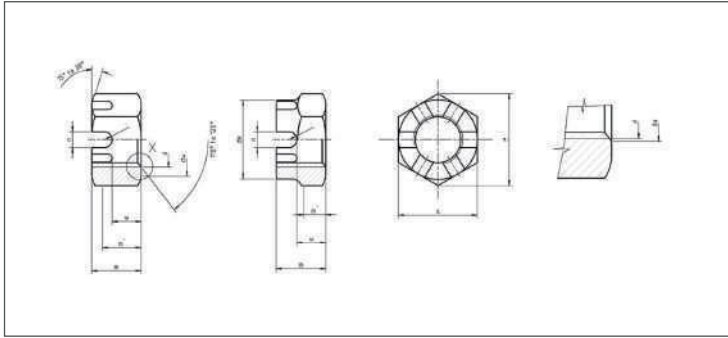
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## ALTI KÖŞE İNCE TAÇLI SOMUN

## CASTLE NUT LOW FORM

## KRON MUTTER NIEDRIGE FORM



| ISO                                                                                                              | UNI | DIN        |
|------------------------------------------------------------------------------------------------------------------|-----|------------|
| -                                                                                                                | -   | <b>937</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -          |

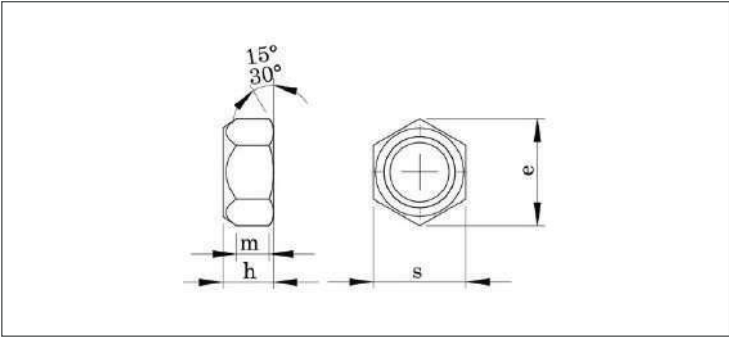
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## SIKMALI ALTIKÖŞE SOMUN



|                                                                                                                  |            |                                                                                |
|------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------|
| <b>DIN EN<br/>ISO</b>                                                                                            | <b>UNI</b> | <b>DIN</b>                                                                     |
| <b>7042</b>                                                                                                      | <b>-</b>   | <b>980/V</b>                                                                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>DIN 267-4</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b><br><b>ISO 898-2</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

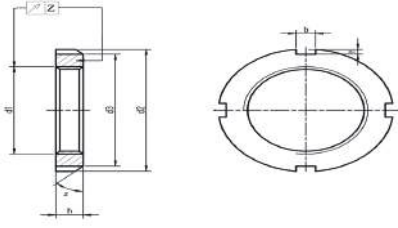
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# KİLİT SOMUNU

## LOCK NUT

## KONTER MUTTER



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | 981 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

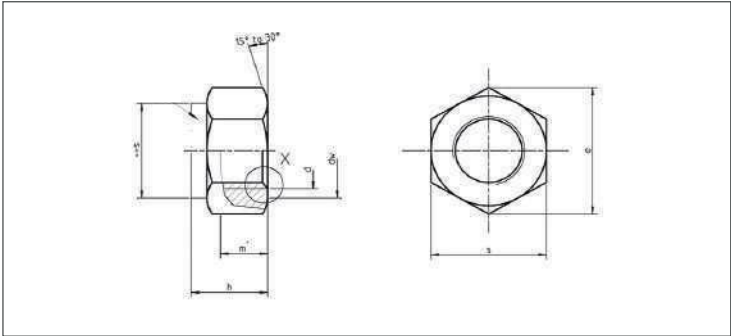
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## FİBERLİ ALTIKÖŞE YÜKSEK SOMUN



|                                                                                                                  |             |                                                            |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|
| <b>DIN EN<br/>ISO</b>                                                                                            | <b>UNI</b>  | <b>DIN</b>                                                 |
| <b>7040</b>                                                                                                      | <b>7473</b> | <b>982</b>                                                 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 898-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

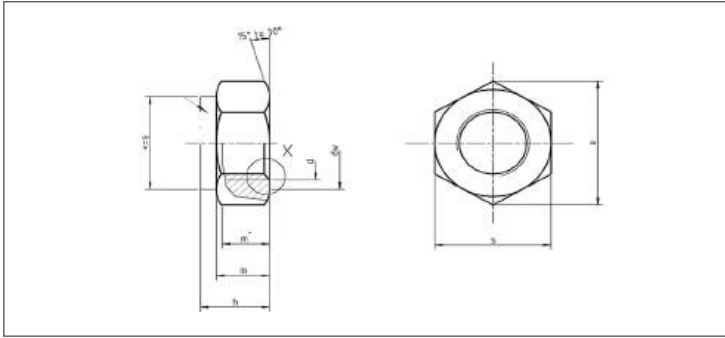
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## ALTİKÖŞE FİBERLİ SOMUN

## HEXAGON NYLON INSERT NUT

## SECHSKANTMUTTERN MIT NICHTMETALLISCHEM KLEMMTEIL



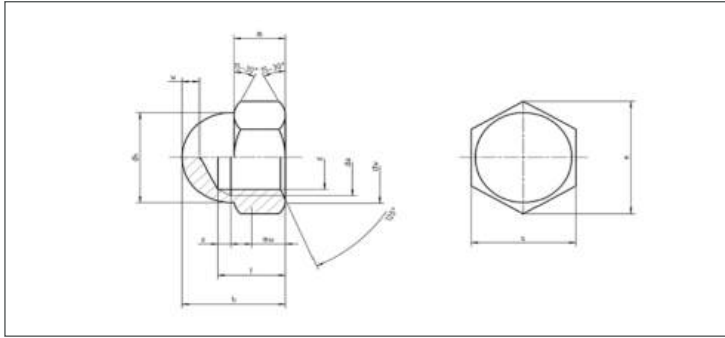
|                                                                                                                  |             |                                                            |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|
| <b>DIN EN<br/>ISO</b>                                                                                            | <b>UNI</b>  | <b>DIN</b>                                                 |
| <b>10511</b>                                                                                                     | <b>7474</b> | <b>985</b>                                                 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 898-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



| ISO                                                                                                              | UNI         | DIN                                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|
| -                                                                                                                | <b>5721</b> | <b>1587</b>                                                |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 898-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

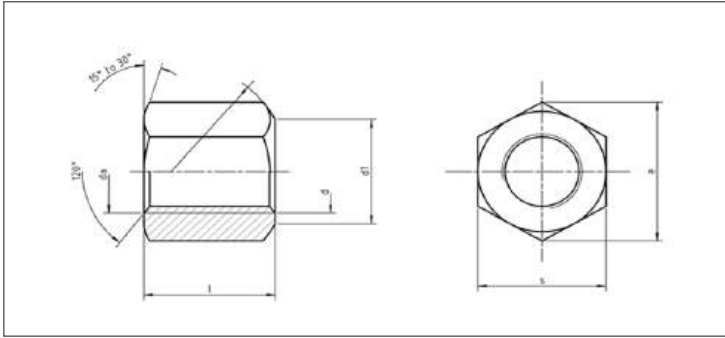
## TECHNISCHE INFORMATION

| d   |         | d1 max |       | s min |       | s max |       | m min m max |       | e min |       | f min | f max | h min | h max | R »   | v min | gr    |          |        |
|-----|---------|--------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| M3  |         |        | 5,00  |       |       |       | 5,50  | 2,40        |       | 6,08  |       | 4,00  |       |       | 5,00  |       | 2,50  | 1,00  | 1,09     |        |
| M4  | Grade A |        | 6,50  |       | 6,78  |       | 7,00  | 2,90        | 3,20  |       | 7,66  | 5,26  | 5,71  |       | 7,64  |       | 3,25  | 2,00  | 1,63     |        |
|     | Grade B |        |       |       | 6,64  |       |       |             |       |       | 7,50  |       |       |       | 7,42  |       |       |       |          |        |
| M5  | Grade A |        | 7,50  |       | 7,78  |       | 8,00  | 3,70        | 4,00  |       | 8,79  | 7,21  | 7,79  |       | 9,64  | 10,00 |       | 3,75  | 2,00     | 2,72   |
|     | Grade B |        |       |       | 7,64  |       |       |             |       |       | 8,63  |       |       |       | 9,42  |       |       |       |          |        |
| M6  | Grade A |        | 9,50  |       | 9,64  |       | 10,00 | 4,70        | 5,00  |       | 11,05 | 7,71  | 8,29  |       | 11,57 | 12,00 |       | 4,75  | 2,00     | 5,07   |
|     | Grade B |        |       |       | 9,78  |       |       |             |       |       | 10,89 |       |       |       | 11,30 |       |       |       |          |        |
| M8  | Grade A |        | 12,50 |       | 12,73 |       | 13,00 | 6,14        | 6,50  |       | 14,38 | 10,56 | 11,35 |       | 14,57 | 15,00 |       | 6,25  | 2,00     | 11,97  |
|     | Grade B |        |       |       | 12,57 |       |       |             |       |       | 14,20 |       |       |       | 14,30 |       |       |       |          |        |
| M10 | Grade A | 15,00  | 16,00 | 15,73 | 16,73 | 16,00 | 17,00 | 7,64        | 8,00  | 17,77 | 18,90 | 12,65 | 13,35 |       | 17,57 | 18,00 | 7,50  | 8,00  | 2,00     | 21,87  |
|     | Grade B |        |       | 15,57 | 16,57 |       |       |             |       |       | 17,59 |       |       | 18,72 |       |       |       |       |          |        |
| M12 | Grade A | 17,00  | 18,00 | 17,73 | 18,67 | 18,00 | 19,00 | 9,64        | 10,00 | 20,03 | 21,10 | 15,65 | 16,35 |       | 21,48 | 22,00 | 8,50  | 9,00  | 3,00     | 30,79  |
|     | Grade B |        |       | 17,57 | 18,48 |       |       |             |       |       | 19,85 |       |       | 20,88 |       |       |       |       |          |        |
| M14 | Grade A | 20,00  | 21,00 | 20,67 | 21,67 | 21,00 | 22,00 | 10,30       | 11,00 | 23,35 | 24,49 | 17,65 | 18,35 |       | 24,48 | 25,00 | 10,00 | 10,50 | 3,00 (4) | 43,75  |
|     | Grade B |        |       | 20,16 | 21,16 |       |       |             |       |       | 22,78 |       |       | 23,91 |       |       |       |       |          |        |
| M16 | Grade A |        | 23,00 |       | 23,67 |       | 24,00 | 12,30       | 13,00 |       | 26,75 | 20,58 | 21,42 |       | 27,48 | 28,00 |       | 11,50 | 3,00 (4) | 59,07  |
|     | Grade B |        |       |       | 23,16 |       |       |             |       |       | 26,17 |       |       |       | 27,16 |       |       |       |          |        |
| M18 | Grade A |        | 26,00 |       | 26,16 |       | 27,00 | 14,30       | 15,00 |       | 30,14 | 24,58 | 25,42 |       | 31,38 | 32,00 |       | 13,00 | 3,00 (5) | 103,40 |
|     | Grade B |        |       |       | 26,67 |       |       |             |       |       | 29,56 |       |       |       | 31,00 |       |       |       |          |        |
| M20 | Grade A |        | 28,00 |       | 29,67 |       | 30,00 | 14,90       | 16,00 |       | 33,53 | 25,58 | 26,42 |       | 33,38 | 34,00 |       | 14,00 | 3,00 (5) | 113,10 |
|     | Grade B |        |       |       | 29,16 |       |       |             |       |       | 32,95 |       |       |       | 33,00 |       |       |       |          |        |
| M22 | Grade A | 31,00  | 33,00 | 31,61 | 33,38 | 32,00 | 34,00 | 16,90       | 18,00 | 35,72 | 37,72 | 28,58 | 29,42 |       | 38,38 | 39,00 | 15,5  | 16,50 | 3,00 (5) | 140,30 |
|     | Grade B |        |       | 31,00 | 33,00 |       |       |             |       |       | 35,03 |       |       | 37,29 |       |       |       |       |          |        |
| M24 | Grade A |        | 34,00 | 35,38 |       |       | 36,00 | 17,70       | 19,00 |       | 39,98 | 30,50 | 31,50 |       | 41,38 | 42,00 |       | 17,00 | 3,00 (6) | 235,00 |
|     | Grade B |        |       | 35,00 |       |       |       |             |       |       | 39,55 |       |       |       | 41,00 |       |       |       |          |        |

## TAKVİYELİ SOMUN

## HEXAGO NUTS WITH A HEIGHT

## SECHSKANTMUTTER HOCH



| ISO                                                                                                              | UNI | DIN                                                        |
|------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------|
| -                                                                                                                | -   | <b>6330</b>                                                |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 898-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.

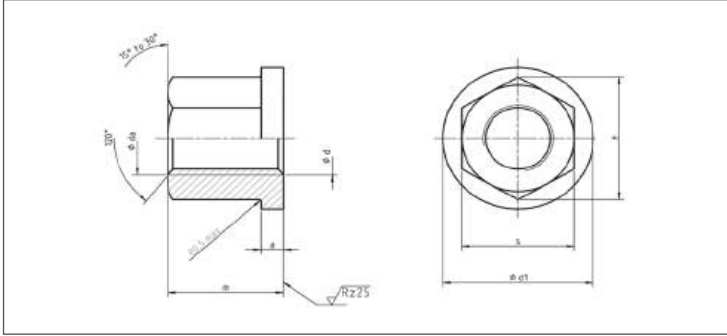
Values are given in millimeters.

Werte sind in millimetern angegeben.

## UZUN FLANŞLI SOMUN

## LONG FLANGE NUT

## LANGE FLANSCHMUTTER



| ISO                                                                                                              | UNI | DIN         |
|------------------------------------------------------------------------------------------------------------------|-----|-------------|
| -                                                                                                                | -   | <b>6331</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -           |

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## SECHSKANTMUTTERN LANGE AUSFÜHRUNG



Werte sind in millimetern angegeben.

## SECHSKANTMUTTER FÜR STAHLKONSTRUKTIONEN

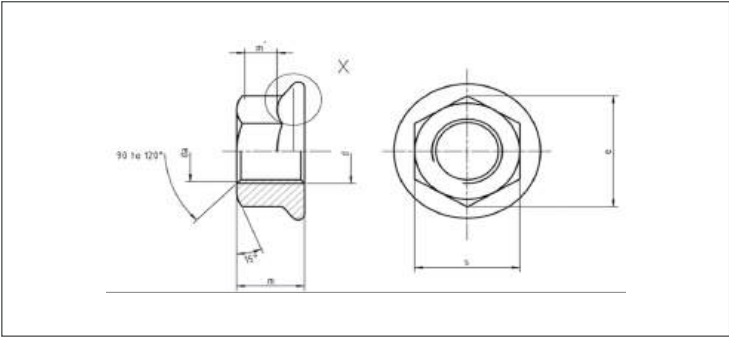


Werte sind in millimetern angegeben.

## ALTİKÖŞE FLANŞLI SOMUN

HEXAGON FLANGE NUT      SECHSKANTMUTTERN MIT FLANSCH

HEXAGON FLANGE NUT SECHSKANTMUTTERN MIT FLANSCH



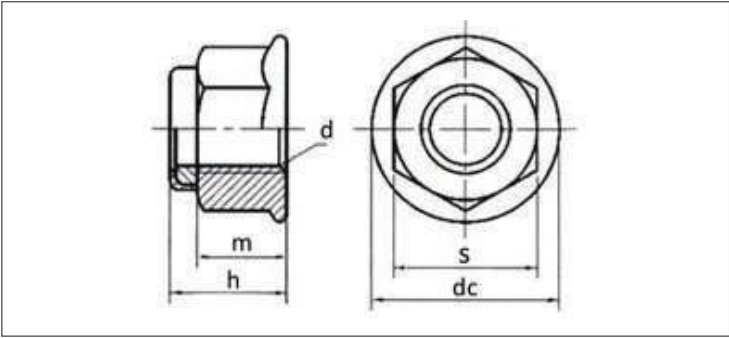
| ISO                                                                                                              | UNI      | DIN                                                        |
|------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------|
| <b>4161</b>                                                                                                      | <b>-</b> | <b>6923</b>                                                |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |          | <b>ISO 898-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]



## FİBERLİ FLANŞLI ALTIKÖŞE SOMUN

## PREVALING TORQUE TYPE HEXAGON NUTS WITH FLANGE AND WITH NON-METALLIC INSERT



# ISO

**UNI**

**DIN**

7043

6926

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

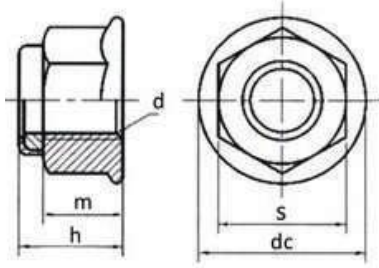
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## ALTI KÖŞE SIKMALI FLANŞLI SOMUN

## PREVAILING TORQUE TYPE HEXAGON NUTS WITH FLANGE

## SICHERUNGSMUTTER MIT FLANSCH



| ISO                                                                                                              | UNI      | DIN                                                                             |
|------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|
| <b>7044</b>                                                                                                      | <b>-</b> | <b>6927</b>                                                                     |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |          | <b>DIN 267-23</b><br><b>ISO 898-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

Değerler milimetre olarak verilmiştir.

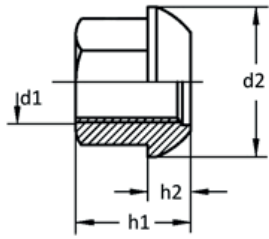
Values are given in millimeters.

Werte sind in millimetern angegeben.

# BIJON SOMUNU

## SPHERICAL COLLAR NUT

SPHARISCHE BUND MUTTER



| ISO                                                                                                              | UNI | DIN                |
|------------------------------------------------------------------------------------------------------------------|-----|--------------------|
| -                                                                                                                | -   | <b>74361<br/>A</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -                  |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



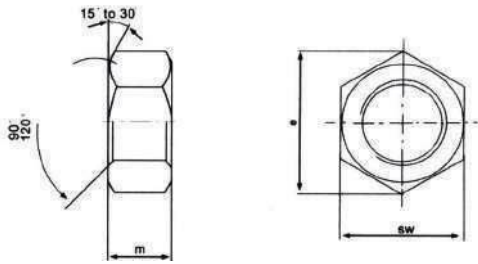




## UNF - UNC ANSI B 18.2.2 ALTIKÖŞE SOMUN

## UNF HEXAGONAL NUTS

UNF-MUTTERN



|                                                                                                                  |            |                                                           |
|------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN<br/>(ASME)</b>                                     |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>B.18.2.2</b>                                           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>DIN 267</b><br><b>(ASTM A563)</b><br><b>UNI 3740-4</b> |

Değerler milimetre olarak verilmiştir.

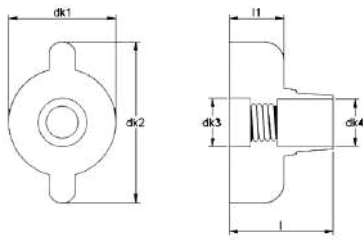
Values are given in millimeters.

Werte sind in millimetern angegeben.

## PLASTİK KELEBEK SOMUN

## WING NUT-PLASTIC COATED

## KUNSTSTOFF FLÜGELMUTTER



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

Değerler milimetre olarak verilmiştir.

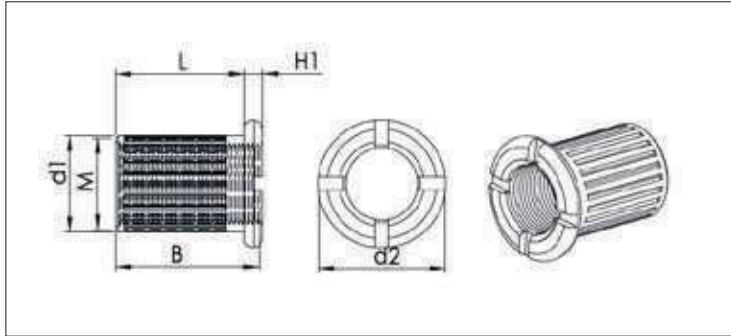
Values are given in millimeters.

Werte sind in millimetern angegeben.

## MONTEBENT SOMUNU

ASSEMBLY NUT MONTEBENT-MUTTER

ASSEMBLY NUT MONTEBENT-MUTTER



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

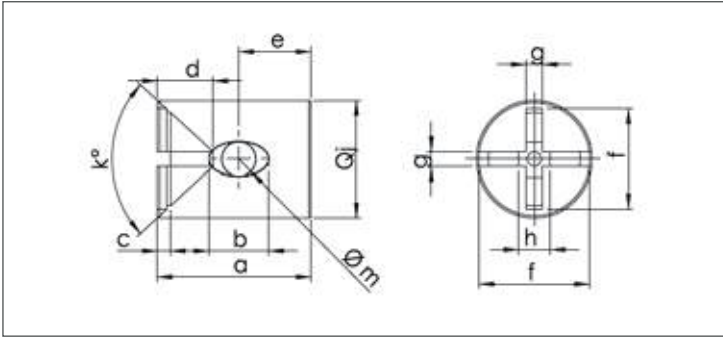
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## SİLİNDİRİK ÇEKTİRME SOMUN

## CYLINDRICAL FURNITURE NUT

## SCHRUMPF-MUTTER



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

The background of the entire image is a dark blue field filled with a complex, overlapping pattern of lighter blue squares and rectangles, creating a sense of depth and geometric movement.

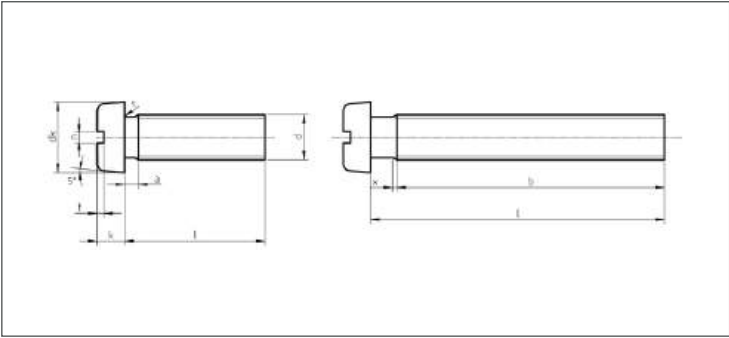
# **ViDA GRUBU**

## SCREWS

## DÜZ YARIKLI SİLİNDİR BAŞ METRİK VİDA

SLOTTED PAN HEAD SCREWS ZYLINDERSCHRAUBE MIT SCHLITZ

SLOTTED PAN HEAD SCREWS ZYLINDERSCHRAUBE MIT SCHLITZ



|                                                                                                                  |             |                                       |
|------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                            |
| <b>1207</b>                                                                                                      | <b>6107</b> | <b>84</b>                             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 898-1</b><br><b>ISO 4759-1</b> |

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

| d  |     | M2   | M2,5 | M3   | M4   | M5   | M6    | M8    | M10   |
|----|-----|------|------|------|------|------|-------|-------|-------|
| dk |     | 3,80 | 4,50 | 5,50 | 7,00 | 8,50 | 10,00 | 13,00 | 16,00 |
| k  |     | 1,30 | 1,60 | 2,00 | 2,60 | 3,30 | 3,90  | 5,00  | 6,00  |
| n  |     | 0,50 | 0,60 | 0,80 | 1,00 | 1,20 | 1,60  | 2,00  | 2,50  |
| t  | max | 0,80 | 0,90 | 1,15 | 1,50 | 1,80 | 2,20  | 2,60  | 3,00  |
|    | min | 0,60 | 0,70 | 0,90 | 1,20 | 1,50 | 1,80  | 2,10  | 2,40  |

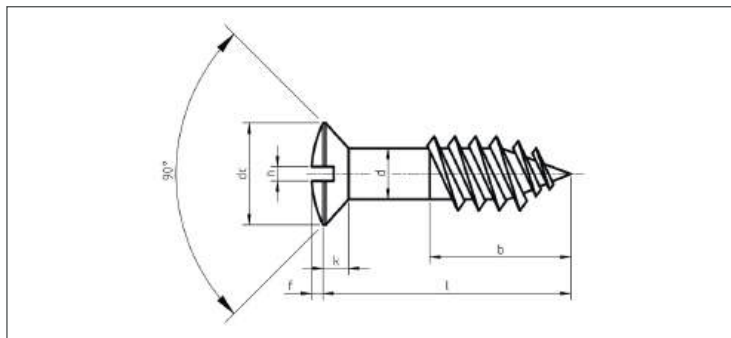
[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## LINSENSENK-HOLZSCHRAUBEN MIT SCHLITZ



|                                                                                                                  |            |                                     |
|------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                          |
| <b>-</b>                                                                                                         | <b>703</b> | <b>95</b>                           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>DIN 267-1</b><br><b>ISO 4759</b> |

| TEKNİK BİLGİLER |     | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |      |       |       |
|-----------------|-----|------------------------|------|------|------|------------------------|------|-------|-------|
| d               | ≥   | 2,5                    | 3    | 3,5  | 4    | 4,5                    | 5    | 5,5   | 6     |
| b               | Max | 0,61                   |      |      |      |                        |      |       |       |
| ds              | Min | 2,50                   | 3,00 | 3,50 | 4,00 | 4,50                   | 5,00 | 5,50  | 6,00  |
|                 | Max | 2,10                   | 2,60 | 3,02 | 3,52 | 4,02                   | 4,52 | 5,02  | 5,52  |
| dk              | Min | 5,08                   | 5,98 | 6,95 | 7,95 | 8,75                   | 9,65 | 10,75 | 11,55 |
|                 | Max | 4,33                   | 5,23 | 6,05 | 7,05 | 7,85                   | 8,75 | 9,65  | 10,45 |
| k               | Max | 1,5                    | 1,65 | 1,93 | 2,20 | 2,35                   | 2,50 | 2,75  | 3,00  |
| n               | Min | 0,80                   | 1,00 | 1,00 | 1,20 | 1,20                   | 1,51 | 1,51  | 1,91  |
|                 |     | 0,66                   | 0,86 | 0,86 | 1,06 | 1,06                   | 1,26 | 1,26  | 1,66  |
| f               | max | 0,60                   | 0,75 | 0,90 | 1,00 | 1,10                   | 1,25 | 1,40  | 1,50  |
| t               | Min | 1,20                   | 1,45 | 1,70 | 1,90 | 2,10                   | 2,30 | 2,50  | 2,80  |
|                 |     | 1,10                   | 1,20 | 1,40 | 1,60 | 1,80                   | 2,00 | 2,20  | 2,40  |

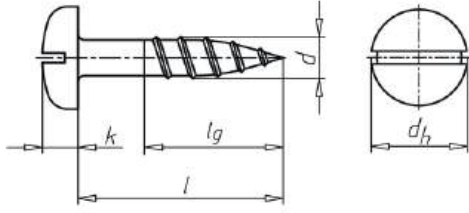
[illegible]

Werte sind in millimetern angegeben.

## SİLİNDİR BAŞLI AĞAÇ VİDASI

## SLOTTED ROUND HEAD WOOD SCREWS

## HALBRUND-HOLZSCHRAUBEN MIT SCHLITZ



|                                                                                                                  |            |                                     |
|------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                          |
| <b>-</b>                                                                                                         | <b>701</b> | <b>96</b>                           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>DIN 267-1</b><br><b>ISO 4759</b> |

| TEKNİK BİLGİLER |     | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |       |       |       |
|-----------------|-----|------------------------|------|------|------|------------------------|-------|-------|-------|
| d               | ≥   | 2,5                    | 3    | 3,5  | 4    | 4,5                    | 5     | 5,5   | 6     |
| b               | Max | 0,6l                   |      |      |      |                        |       |       |       |
| ds              | Min | 2,50                   | 3,00 | 3,50 | 4,00 | 4,50                   | 5,00  | 5,50  | 6,00  |
|                 | Max | 2,10                   | 2,60 | 3,02 | 3,52 | 4,02                   | 4,52  | 5,02  | 5,52  |
| dk              | Min | 5,38                   | 6,38 | 7,45 | 8,45 | 9,45                   | 10,45 | 11,55 | 12,55 |
|                 | Max | 4,62                   | 5,62 | 6,55 | 7,55 | 8,55                   | 9,55  | 10,45 | 11,45 |
| k               | Min | 1,90                   | 2,30 | 2,60 | 3,00 | 3,34                   | 3,74  | 4,04  | 4,44  |
|                 | Max | 1,50                   | 1,90 | 2,10 | 2,60 | 2,86                   | 3,26  | 3,56  | 3,96  |
| n               | Min | 0,80                   | 1,00 | 1,00 | 1,20 | 1,20                   | 1,51  | 1,51  | 1,91  |
|                 | max | 0,66                   | 0,86 | 0,86 | 1,06 | 1,06                   | 1,26  | 1,26  | 1,66  |
| t               | Min | 1,10                   | 1,35 | 1,60 | 1,80 | 2,00                   | 2,30  | 2,50  | 2,70  |
|                 |     | 1,10                   | 1,35 | 1,60 | 1,80 | 2,00                   | 2,30  | 2,50  | 2,70  |

[illegible]

Değerler milimetre olarak verilmiştir.

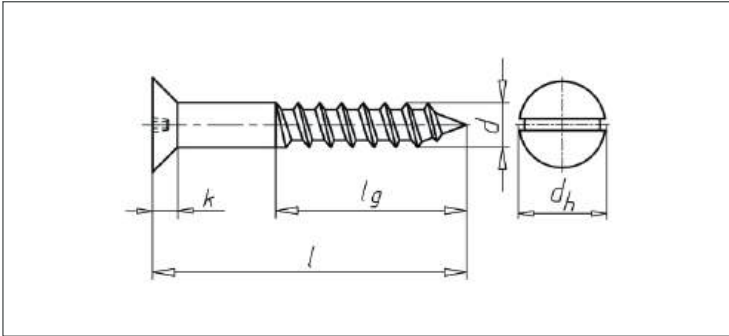
Values are given in millimeters.

Werte sind in millimetern angegeben.

## HAVŞA BAŞLI AĞAÇ VİDASI

SLOTTED COUNTERSUNK FLAT HEAD WOOD SCREWS      SENK-HOLZSCHRAUBEN MIT SCHLITZ

SLOTTED COUNTERSUNK FLAT HEAD WOOD SCREWS      SENK-HOLZSCHRAUBEN MIT SCHLITZ



|                                                                                                                  |            |                                     |
|------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                          |
| <b>-</b>                                                                                                         | <b>702</b> | <b>97</b>                           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>DIN 267-1</b><br><b>ISO 4759</b> |

| TEKNİK BİLGİLER |     | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |      |       |       |
|-----------------|-----|------------------------|------|------|------|------------------------|------|-------|-------|
| d               |     | 2,5                    | 3    | 3,5  | 4    | 4,5                    | 5    | 5,5   | 6     |
| b               | ≥   | 0,6l                   |      |      |      |                        |      |       |       |
| ds              | Max | 2,50                   | 3,00 | 3,50 | 4,00 | 4,50                   | 5,00 | 5,50  | 6,00  |
|                 | Min | 2,10                   | 2,60 | 3,02 | 3,52 | 4,02                   | 4,52 | 5,02  | 5,52  |
| dk              | Max | 5,08                   | 5,98 | 6,95 | 7,95 | 8,75                   | 9,65 | 10,75 | 11,55 |
|                 | Min | 4,33                   | 5,23 | 6,05 | 7,05 | 7,85                   | 8,75 | 9,65  | 10,45 |
| k               | Max | 1,5                    | 1,65 | 1,93 | 2,20 | 2,35                   | 2,50 | 2,75  | 3,00  |
| n               | Max | 0,80                   | 1,00 | 1,00 | 1,20 | 1,20                   | 1,51 | 1,51  | 1,91  |
|                 | Min | 0,66                   | 0,86 | 0,86 | 1,06 | 1,06                   | 1,26 | 1,26  | 1,66  |
| t               | Max | 0,70                   | 0,85 | 1,00 | 1,10 | 1,20                   | 1,30 | 1,40  | 1,60  |
|                 | Min | 0,50                   | 0,60 | 0,70 | 0,80 | 0,90                   | 1,00 | 1,10  | 1,20  |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

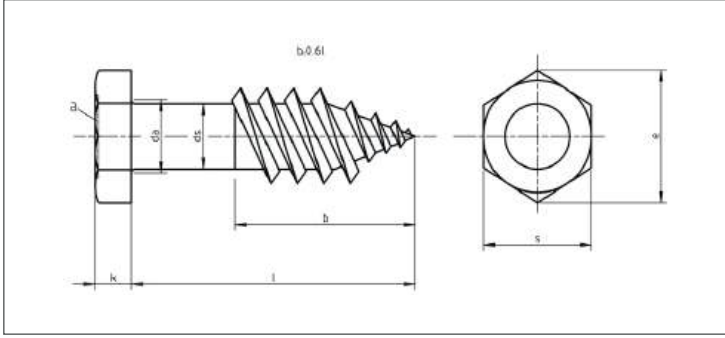
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# ALTİKÖŞE BAŞLI AĞAÇ VİDASI (TRİFON)

HEXAGON HEAD WOOD SCREW

SECHSKANT-HOLZSCHRAUBE



| ISO                                                                                                              | UNI | DIN                     |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| -                                                                                                                | 704 | 571                     |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | ISO 898-1<br>ISO 4759-1 |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d  |         | 4    | 5    | 6     | 7     | 8     | 10    | 12    | 16    | 20    |
|----|---------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Ds | max     | 5,00 | 5,00 | 6,00  | 97,00 | 8,00  | 10,00 | 12,00 | 16,00 | 20,00 |
|    | min     | 3,52 | 4,52 | 5,52  | 6,42  | 7,42  | 9,42  | 11,30 | 15,30 | 19,30 |
| k  | Nominal | 2,80 | 3,50 | 4,00  | 5,00  | 5,50  | 7,00  | 8,00  | 10,00 | 13,00 |
|    | max     | 3,10 | 3,88 | 4,38  | 5,38  | 5,88  | 7,45  | 8,45  | 10,45 | 13,90 |
|    | min     | 2,50 | 3,13 | 3,63  | 4,63  | 5,13  | 6,55  | 7,55  | 9,55  | 12,10 |
| s  | Nominal | 7,00 | 8,00 | 10,00 | 12,00 | 13,00 | 17,00 | 19,00 | 24,00 | 30,00 |
|    | max     | 7,00 | 8,00 | 10,00 | 12,00 | 13,00 | 17,00 | 19,00 | 24,00 | 30,00 |
|    | min     | 6,64 | 7,64 | 9,64  | 11,57 | 12,57 | 16,57 | 18,48 | 23,16 | 29,16 |
| e  | min     | 7,50 | 8,63 | 10,89 | 13,07 | 14,20 | 18,72 | 20,88 | 26,17 | 32,95 |

| l   | min    | max    | 4    | 5     | 6     | 7     | 8     | 10     | 12     | 16     | 20     |
|-----|--------|--------|------|-------|-------|-------|-------|--------|--------|--------|--------|
| 16  | 15,10  | 16,90  | 1,71 |       |       |       |       |        |        |        |        |
| 20  | 18,95  | 21,05  | 2,01 | 3,42  |       |       |       |        |        |        |        |
| 25  | 23,95  | 26,05  | 2,41 | 4,02  | 5,82  |       | 11,50 |        |        |        |        |
| 30  | 28,95  | 31,05  | 2,81 | 4,62  | 6,62  |       | 12,90 |        |        |        |        |
| 35  | 33,75  | 36,25  | 3,11 | 5,12  | 7,42  | 11,28 | 14,20 |        |        |        |        |
| 40  | 38,75  | 36,25  | 3,51 | 5,82  | 8,22  | 12,42 | 15,60 | 28,00  |        |        |        |
| 45  | 43,75  | 46,25  |      | 6,43  | 8,94  | 14,78 | 16,90 | 30,00  |        |        |        |
| 50  | 48,75  | 51,25  |      | 7,03  | 9,64  | 16,00 | 18,20 | 32,10  |        |        |        |
| 55  | 53,50  | 56,25  |      |       | 10,50 | 17,10 | 19,60 |        |        |        |        |
| 60  | 58,50  | 61,50  |      | 8,23  | 11,20 | 18,20 | 20,90 | 36,50  | 51,80  |        | 165,00 |
| 65  | 63,50  | 66,50  |      |       | 11,97 | 19,30 | 22,20 |        |        |        | 174,00 |
| 70  | 68,50  | 71,50  |      | 9,43  | 12,74 | 20,97 | 23,60 | 40,70  | 57,80  |        | 182,00 |
| 80  | 78,50  | 81,50  |      | 10,63 | 14,27 | 23,30 | 26,50 | 45,20  | 64,50  |        | 201,00 |
| 90  | 88,25  | 91,75  |      |       | 15,80 | 25,64 | 29,40 | 49,90  | 71,00  | 130,00 | 220,00 |
| 100 | 98,25  | 101,75 |      |       | 17,34 | 28,00 | 32,00 | 54,00  | 77,10  | 141,00 | 238,00 |
| 110 | 108,25 | 111,75 |      |       | 18,81 | 30,27 | 34,80 | 58,40  | 83,40  | 152,00 | 253,00 |
| 120 | 118,25 | 121,75 |      |       | 20,40 | 32,60 | 37,55 | 60,30  | 89,50  | 163,00 | 275,00 |
| 130 | 128,00 | 132,00 |      |       | 21,93 | 35,00 | 40,30 | 66,50  | 95,70  | 175,00 | 293,00 |
| 140 | 138,00 | 142,00 |      |       | 23,46 | 37,35 | 43,05 | 70,80  | 101,88 | 187,00 | 317,00 |
| 150 | 148,00 | 152,00 |      |       | 25,00 | 39,72 | 45,80 | 74,95  | 108,06 | 198,00 | 328,00 |
| 160 | 158,00 | 162,00 |      |       | 26,53 |       | 48,55 | 79,15  | 114,24 | 209,00 | 348,00 |
| 170 | 168,00 | 172,00 |      |       |       |       |       | 83,35  | 120,42 |        | 366,00 |
| 180 | 178,00 | 182,00 |      |       |       |       | 54,05 | 87,55  | 126,60 | 232,14 | 385,00 |
| 190 | 187,70 | 192,30 |      |       |       |       |       |        |        |        | 404,00 |
| 200 | 197,70 | 202,30 |      |       |       |       | 59,55 | 91,75  | 138,96 | 255,00 | 421,00 |
| 220 | 217,70 | 222,30 |      |       |       |       | 65,05 | 100,15 | 151,32 | 277,86 |        |
| 240 | 237,70 | 242,30 |      |       |       |       | 70,55 | 108,55 | 163,68 | 300,71 |        |
| 250 | 247,70 | 252,30 |      |       |       |       |       | 116,95 | 169,86 |        |        |
| 260 | 257,70 | 262,30 |      |       |       |       | 76,05 | 125,35 | 176,04 | 323,57 |        |
|     |        |        |      |       |       |       |       |        |        |        |        |
|     |        |        |      |       |       |       |       |        |        |        |        |

Değerler milimetre olarak verilmiştir.

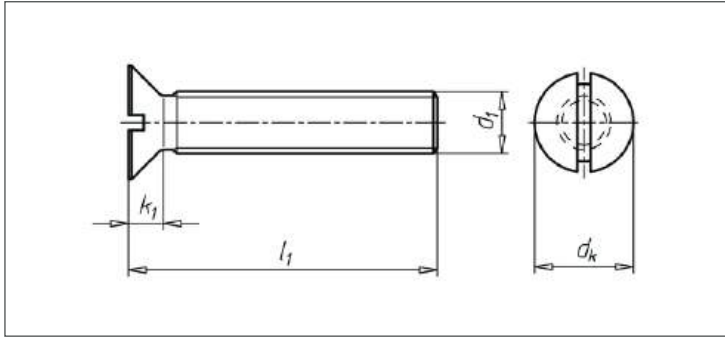
Values are given in millimeters.

Werte sind in millimetern angegeben.

# METRİK HAVŞA BAŞLI VİDALAR

COUNTERSUNK SLOTTED FLAT HEAD SCREWS

SENKSCHRAUBE MIT SCHLITZ



| ISO                                                                                                              | UNI  | DIN                                  |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------------------|
| 2009                                                                                                             | 6109 | 963                                  |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | <b>ISO 2702</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |         |      | TECHNICAL INFORMATION |      |      |      | TECHNISCHE INFORMATION |       |       |  |
|-----------------|---------|------|-----------------------|------|------|------|------------------------|-------|-------|--|
| d               |         | M2   | M2,5                  | M3   | M4   | M5   | M6                     | M8    | M10   |  |
| dk              | max     | 5,00 | 4,70                  | 5,60 | 7,50 | 9,20 | 11,00                  | 14,50 | 18,00 |  |
|                 | min     | 3,50 | 4,40                  | 5,30 | 7,14 | 8,84 | 10,57                  | 14,07 | 17,57 |  |
| k               | min     | 1,20 | 1,50                  | 1,65 | 2,20 | 2,50 | 3,00                   | 4,00  | 5,00  |  |
|                 | Nominal | 0,50 | 0,60                  | 0,80 | 1,00 | 1,20 | 1,60                   | 2,00  | 2,50  |  |
| n               | max     | 0,70 | 0,80                  | 1,00 | 1,20 | 1,51 | 1,91                   | 2,31  | 2,81  |  |
|                 | min     | 0,56 | 0,66                  | 0,86 | 1,06 | 1,26 | 1,66                   | 2,06  | 2,56  |  |
| t               | max     | 0,60 | 0,70                  | 0,85 | 1,10 | 1,30 | 1,60                   | 2,10  | 2,60  |  |
|                 | min     | 0,40 | 0,50                  | 0,60 | 0,80 | 1,00 | 1,20                   | 1,60  | 2,00  |  |

| l   | min   | max    | M2   | M2,5 | M3   | M4   | M5    | M6    | M8    | M10   |
|-----|-------|--------|------|------|------|------|-------|-------|-------|-------|
| 2   | 1,80  | 2,20   |      |      |      |      |       |       |       |       |
| 3   | 2,80  | 3,20   |      |      |      |      |       |       |       |       |
| 4   | 3,75  | 4,25   | 0,12 | 0,21 | 0,31 |      |       |       |       |       |
| 5   | 4,75  | 5,25   | 0,14 | 0,24 | 0,34 |      |       |       |       |       |
| 6   | 5,75  | 6,25   | 0,15 | 0,27 | 0,38 | 0,90 |       |       |       |       |
| 7   |       |        |      |      | 0,43 | 0,98 |       |       |       |       |
| 8   | 7,70  | 8,30   | 0,19 | 0,33 | 0,47 | 1,06 | 1,48  | 2,38  |       |       |
| 10  | 9,70  | 10,30  | 0,23 | 0,39 | 0,56 | 1,22 | 1,72  | 2,73  | 5,68  |       |
| 12  | 11,65 | 12,35  | 0,27 | 0,45 | 0,64 | 1,37 | 1,96  | 3,08  | 6,32  | 9,54  |
| 14  | 13,65 | 14,35  | 0,31 | 0,51 | 0,73 | 1,53 | 2,20  | 3,43  | 6,96  | 10,60 |
| 16  | 15,65 | 16,35  | 0,34 | 0,57 | 0,82 | 1,68 | 2,44  | 3,78  | 7,60  | 11,60 |
| 18  | 17,65 | 18,35  |      |      | 0,91 | 1,83 | 2,68  | 4,13  |       |       |
| 20  | 19,60 | 20,40  | 0,42 | 0,69 | 1,00 | 2,00 | 2,92  | 4,48  | 8,88  | 13,60 |
| 25  | 24,60 | 25,40  |      | 0,84 | 1,22 | 2,39 | 3,52  | 5,36  | 10,50 | 16,10 |
| 30  | 29,60 | 30,40  |      |      | 1,44 | 2,78 | 4,12  | 6,23  | 12,10 | 18,70 |
| 35  | 34,50 | 35,50  |      |      | 1,66 | 3,17 | 4,72  | 7,11  | 13,70 | 21,20 |
| 40  | 39,50 | 40,50  |      |      | 1,88 | 3,56 | 5,32  | 7,98  | 15,30 | 23,70 |
| 45  | 44,50 | 45,50  |      |      | 2,10 | 3,95 | 5,92  | 8,80  | 16,90 | 26,20 |
| 50  | 49,50 | 50,50  |      |      | 2,32 | 4,34 | 6,52  | 9,73  | 18,50 | 28,80 |
| 55  | 54,00 | 56,00  |      |      |      | 4,73 | 7,12  | 10,60 | 20,10 | 31,30 |
| 60  | 59,00 | 61,00  |      |      |      | 5,12 | 7,72  | 11,50 | 21,70 | 33,80 |
| 65  |       |        |      |      |      | 5,51 | 8,32  | 12,38 | 23,30 | 36,30 |
| 70  | 69,00 | 71,00  |      |      |      | 5,90 | 8,92  | 13,27 | 24,90 | 38,90 |
| 75  |       |        |      |      |      |      | 9,52  | 14,15 | 26,50 | 41,40 |
| 80  | 79,00 | 81,00  |      |      |      |      | 10,12 | 15,04 | 28,10 | 43,90 |
| 90  | 89,00 | 91,00  |      |      |      |      |       |       |       |       |
| 100 | 99,00 | 101,00 |      |      |      |      |       |       |       |       |
|     |       |        |      |      |      |      |       |       |       |       |
|     |       |        |      |      |      |      |       |       |       |       |
|     |       |        |      |      |      |      |       |       |       |       |
|     |       |        |      |      |      |      |       |       |       |       |

Değerler milimetre olarak verilmiştir.

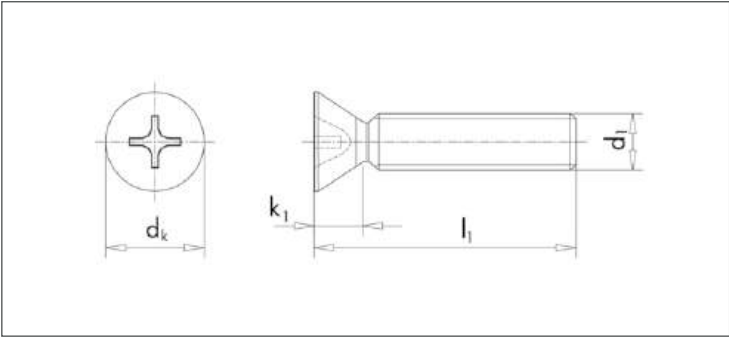
Values are given in millimeters.

Werte sind in millimetern angegeben.

## YILDIZ HAVŞA BAŞLI METRİK VİDA

CROSS RECESSED COUNTERSUNK HEAD SCREWS SENKKOPFSCHRAUBE MIT KREUZ

CROSS RECESSED COUNTERSUNK HEAD SCREWS SENKKOPFSCHRAUBE MIT KREUZ



|                                                                                                                  |             |                                       |
|------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                            |
| <b>7046</b>                                                                                                      | <b>7688</b> | <b>965</b>                            |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 898-1</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER                          |     |      | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |       |       |       |
|------------------------------------------|-----|------|------------------------|------|------|------|------------------------|-------|-------|-------|
| d                                        |     | M1,6 | M2                     | M2,5 | M3   | M4   | M5                     | M6    | M8    | M10   |
| dk                                       | max | 5,00 | 3,80                   | 4,70 | 5,60 | 7,50 | 9,20                   | 11,00 | 14,50 | 18,00 |
|                                          | min | 2,75 | 3,50                   | 4,40 | 5,30 | 7,14 | 8,84                   | 10,57 | 14,07 | 17,17 |
| k                                        | max | 0,96 | 1,20                   | 1,50 | 1,65 | 2,20 | 2,50                   | 3,00  | 4,00  | 5,00  |
| Nº                                       | v   | 0    | 1                      |      |      | 2    |                        | 3     | 4     |       |
| m                                        | ~   | 1,70 | 2,35                   | 2,70 | 2,90 | 4,40 | 4,60                   | 6,80  | 8,70  | 9,60  |
| Soket Derinliği Q<br>Penetration Depth Q | max | 0,91 | 1,25                   | 1,55 | 1,80 | 2,40 | 2,60                   | 3,30  | 4,40  | 5,30  |
|                                          | min | 0,66 | 0,95                   | 1,25 | 1,50 | 1,90 | 2,10                   | 2,80  | 3,90  | 4,80  |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

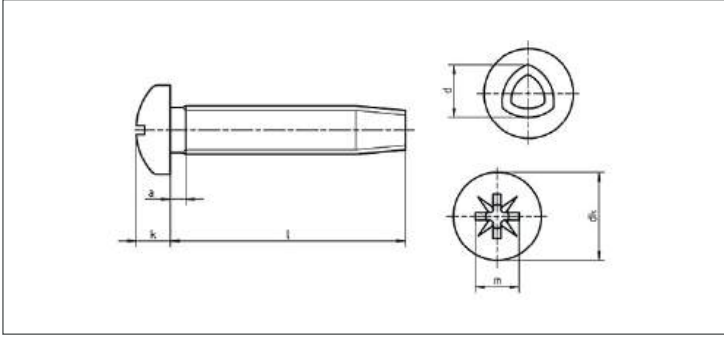
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# ÜÇGEN FORM YSB VİDA

## CROSS RECESSED PAN HEAD TRILOBULAR SCREWS

## GEWİNDEFURCHENDE SENKSCHRAUBEN



| EN ISO                                                                                                           | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 8112 | 7500 C                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 7323-6<br>ISO 4759-1 |

| TEKNİK BİLGİLER |                                   | TECHNICAL INFORMATION |      |      | TECHNISCHE INFORMATION |       |       |
|-----------------|-----------------------------------|-----------------------|------|------|------------------------|-------|-------|
| d               |                                   | 2,5                   | 3    | 3,5  | 4                      | 5     | 6     |
| k               |                                   | 2,00                  | 2,40 | 2,70 | 3,10                   | 3,80  | 1,00  |
| d               | min                               | 2,39                  | 2,88 | 3,36 | 3,84                   | 4,82  | 5,77  |
|                 | max                               | 2,46                  | 2,95 | 3,44 | 3,93                   | 4,92  | 5,90  |
| dk              | max                               | 5,00                  | 6,00 | 7,00 | 8,00                   | 10,00 | 12,00 |
| Nº              | "Phillips Recess No<br>PH Drv No" | 1                     | 1    | 2    | 2                      | 2     | 3     |

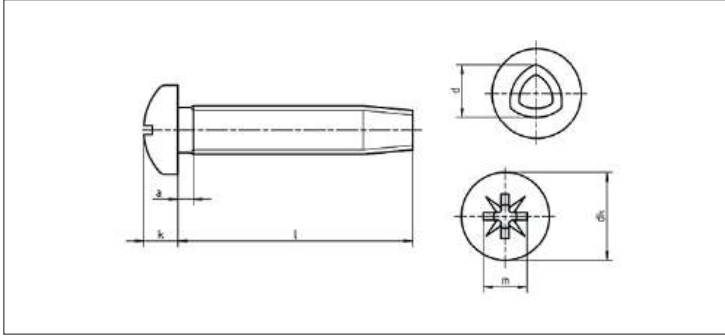
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ÜÇGEN FORM YHB VİDA



| EN ISO                                                                                                           | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 8113 | 7500 M                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 7323-6<br>ISO 4759-1 |

| TEKNİK BİLGİLER |                                   | TECHNICAL INFORMATIONS |      |      | TECHNISCHE INFORMATION |      |       |
|-----------------|-----------------------------------|------------------------|------|------|------------------------|------|-------|
| d               |                                   | 2,5                    | 3    | 3,5  | 4                      | 5    | 6     |
| k               |                                   | 1,50                   | 1,65 | 1,93 | 2,20                   | 2,50 | 3,00  |
| d               | min                               | 2,39                   | 2,88 | 3,36 | 3,84                   | 4,82 | 5,77  |
|                 | max                               | 2,46                   | 2,95 | 3,44 | 3,93                   | 4,92 | 5,90  |
| dk              | max                               | 4,70                   | 5,60 | 6,50 | 7,50                   | 9,20 | 11,00 |
| Nº              | "Phillips Recess No<br>PH Drv No" | 1                      | 1    | 2    | 2                      | 2    | 3     |

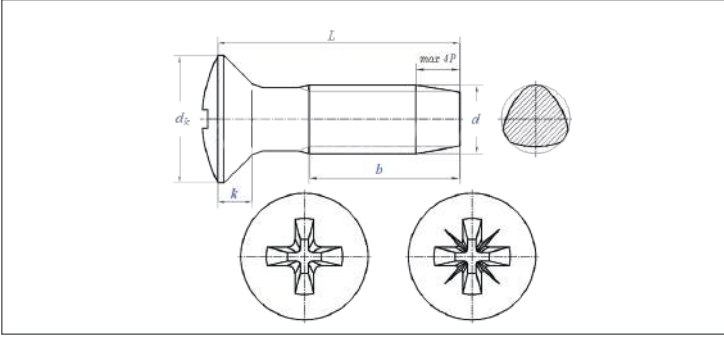
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ÜÇGEN FORM MERCİMEK BAŞLI VİDA



| EN ISO                                                                                                           | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 8114 | 7500 N                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 7323-6<br>ISO 4759-1 |

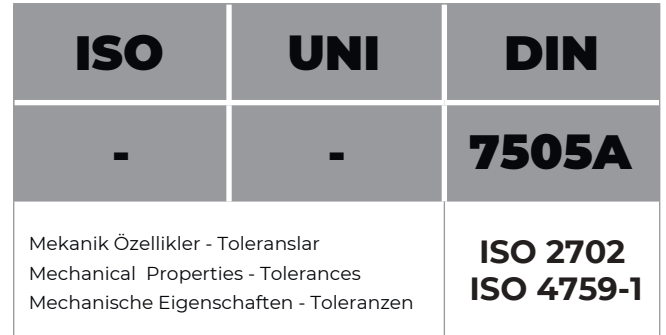
| TEKNİK BİLGİLER |                                   | TECHNICAL INFORMATIONS |      |      | TECHNISCHE INFORMATION |      |       |
|-----------------|-----------------------------------|------------------------|------|------|------------------------|------|-------|
| d               |                                   | 2,5                    | 3    | 3,5  | 4                      | 5    | 6     |
| k               |                                   | 0,60                   | 0,75 | 0,90 | 1,00                   | 1,25 | 1,50  |
| d               | min                               | 2,39                   | 2,88 | 3,36 | 3,84                   | 4,82 | 5,77  |
|                 | max                               | 2,46                   | 2,95 | 3,44 | 3,93                   | 4,92 | 5,90  |
| dk              | max                               | 4,70                   | 5,60 | 6,50 | 7,50                   | 9,20 | 11,00 |
| Nº              | "Phillips Recess No<br>PH Drv No" | 1                      | 1    | 2    | 2                      | 2    | 3     |

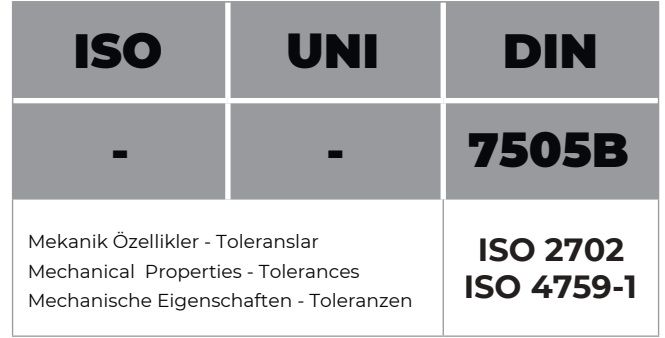
[illegible]

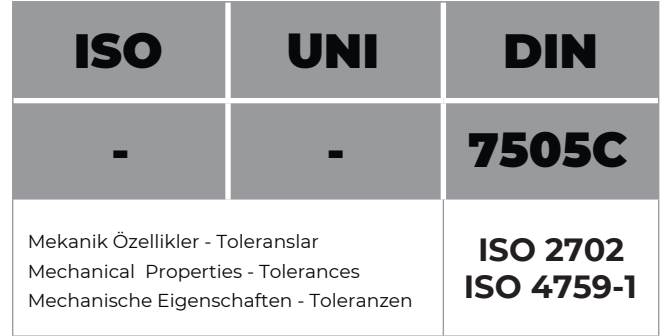
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

[illegible]

[illegible]

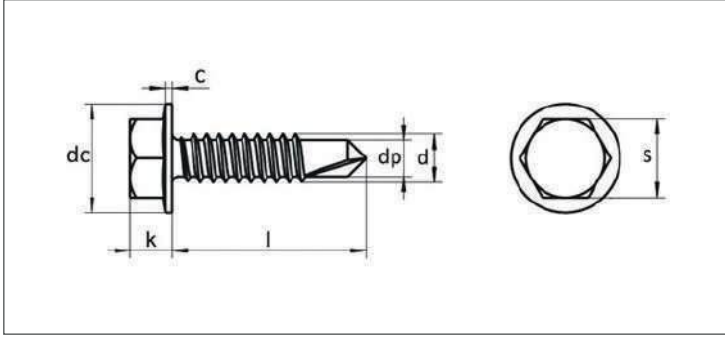


Werte sind in millimetern angegeben.

# ALTIKÖŞE PUL BAŞLI MATKAPUÇLU VİDA

HEXAGON WASHER HEAD SELF DRILLING SCREW

SECHSKANT-SELBSTBOHRENDE SCHRAUBE MIT BUND



| ISO                                                                                                              | UNI  | DIN                     |
|------------------------------------------------------------------------------------------------------------------|------|-------------------------|
| 15480                                                                                                            | 8117 | 7504K                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 10666<br>ISO 4759-1 |

| TEKNİK BİLGİLER                          |                            | TECHNICAL INFORMATION |      |      | TECHNISCHE INFORMATION |       |       |
|------------------------------------------|----------------------------|-----------------------|------|------|------------------------|-------|-------|
| d                                        |                            | 3,5                   | 3,9  | 4,2  | 4,8                    | 5,5   | 6,3   |
| K                                        | max                        | 5,00                  | 3,45 | 4,10 | 4,30                   | 5,40  | 5,90  |
|                                          | min                        | 3,00                  | 3,20 | 3,60 | 3,80                   | 4,80  | 5,30  |
| dk                                       | max                        | 8,30                  | 8,30 | 8,80 | 10,50                  | 11,00 | 13,50 |
|                                          | min                        | 7,60                  | 7,60 | 8,10 | 9,80                   | 10,00 | 12,20 |
| c                                        | min                        | 0,60                  | 0,60 | 0,80 | 0,90                   | 1,00  | 1,00  |
| Nº                                       | MG Drv No<br>NST Recess No | 5,5                   | 5,5  | 7    | 8                      | 8     | 10    |
| s                                        | max                        | 5,50                  | 5,50 | 7,00 | 8,00                   | 8,00  | 10,00 |
|                                          | min                        | 5,32                  | 5,32 | 6,78 | 7,78                   | 7,78  | 9,78  |
| Plaka/Levha Kalınlığı<br>Steel Thickness | max                        | 2,25                  | 2,40 | 3,00 | 4,40                   | 5,25  | 6,00  |
|                                          | min                        | 0,70                  | 1,00 | 1,75 | 1,75                   | 1,75  | 2,00  |

| l   | min   | max    | 3,5  | 3,9  | 4,2  | 4,8  | 5,5   | 6,3   |
|-----|-------|--------|------|------|------|------|-------|-------|
| 9,5 | 8,75  | 10,25  | 1,20 |      |      |      |       |       |
| 13  | 12,10 | 13,90  | 1,35 | 1,45 | 1,70 | 2,60 |       |       |
| 16  | 15,10 | 16,90  | 1,45 | 1,60 | 1,85 | 2,90 | 3,60  |       |
| 19  | 18,00 | 20,00  | 1,70 | 1,88 | 2,10 | 3,20 | 4,00  | 5,80  |
| 22  | 21,00 | 23,00  |      | 2,07 | 2,30 | 3,60 | 4,50  | 6,40  |
| 25  | 24,00 | 26,00  |      | 2,29 | 2,50 | 3,90 | 4,90  | 7,00  |
| 32  | 30,75 | 33,25  |      | 2,70 | 3,00 | 4,20 | 5,90  | 7,60  |
| 38  | 36,75 | 39,25  |      |      | 3,50 | 4,60 | 6,80  | 9,00  |
| 45  | 43,75 | 46,25  |      |      |      | 5,00 | 7,75  | 10,10 |
| 50  | 48,75 | 51,25  |      |      |      | 5,30 | 8,50  | 11,50 |
| 55  |       |        |      |      |      |      | 10,00 | 12,50 |
| 60  | 58,80 | 61,20  |      |      |      |      |       | 13,70 |
| 70  | 68,80 | 71,20  |      |      |      |      |       | 14,90 |
| 80  | 78,80 | 81,20  |      |      |      |      |       | 16,30 |
| 90  | 88,80 | 91,20  |      |      |      |      |       | 17,70 |
| 100 | 98,80 | 101,20 |      |      |      |      |       | 19,10 |
| 110 |       |        |      |      |      |      |       | 20,90 |
| 120 |       |        |      |      |      |      |       | 22,70 |
| 130 |       |        |      |      |      |      |       | 24,20 |
| 140 |       |        |      |      |      |      |       | 25,80 |
| 150 |       |        |      |      |      |      |       | 27,40 |
| 160 |       |        |      |      |      |      |       | 28,90 |
| 170 |       |        |      |      |      |      |       | 30,40 |
| 180 |       |        |      |      |      |      |       | 31,90 |
| 190 |       |        |      |      |      |      |       | 33,40 |
| 200 |       |        |      |      |      |      |       | 34,90 |
|     |       |        |      |      |      |      |       |       |
|     |       |        |      |      |      |      |       |       |

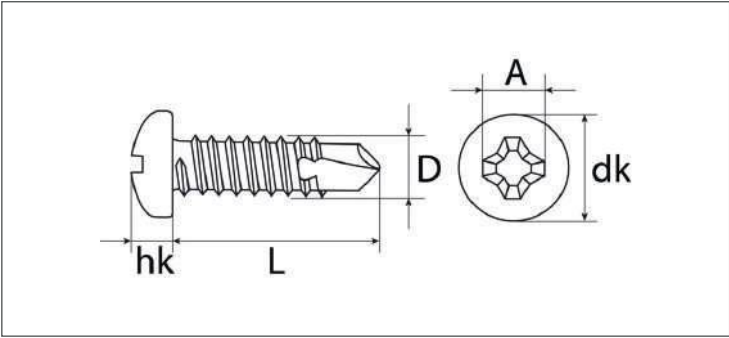
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| <p><b>YILDIZ SİLİNDİR BAŞLI MATKAP UÇLU VİDA</b></p> |                                               |
| <p>CROSS RECESSED PAN HEAD SELF DRILLING SCREW</p>   | <p>SELBSTBOHRENDE SCHRAUBE MIT LINSENKOPF</p> |

## SELBSTBOHRENDE SCHRAUBE MIT LINSENKOPF



| EN ISO                                                                                                           | UNI  | DIN                     |
|------------------------------------------------------------------------------------------------------------------|------|-------------------------|
| 15481                                                                                                            | 8118 | 7504N                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 10666<br>ISO 4759-1 |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |       |       |
|------------------------------------------|---------------------------------|------------------------|------|------|------|------------------------|-------|-------|
| d                                        |                                 | 2,9                    | 3,5  | 3,9  | 4,2  | 4,8                    | 5,5   | 6,3   |
| k                                        | max                             | 5,00                   | 2,60 | 3,10 | 3,10 | 3,70                   | 4,00  | 4,60  |
|                                          | min                             | 2,15                   | 2,35 | 2,80 | 2,80 | 3,40                   | 3,70  | 4,30  |
| dk                                       | max                             | 5,60                   | 7,00 | 7,50 | 8,00 | 9,50                   | 11,00 | 12,00 |
|                                          | min                             | 5,30                   | 6,64 | 7,14 | 7,64 | 9,14                   | 10,57 | 11,57 |
| Nº                                       | PH Drv No<br>Phillips Recess No | 1                      | 2    |      |      |                        | 3     |       |
| m                                        | ~                               | 3,00                   | 3,90 | 4,20 | 4,40 | 4,90                   | 6,40  | 6,90  |
| Soket Derinliği Q<br>Penetration Depth Q | max                             | 1,80                   | 1,90 | 2,40 | 2,40 | 2,90                   | 3,10  | 3,60  |
|                                          | min                             | 1,40                   | 1,40 | 1,90 | 1,90 | 2,40                   | 2,60  | 3,10  |
| Plaka/Levha Kalınlığı<br>Steel Thickness | max                             | 1,90                   | 2,25 | 2,65 | 3,00 | 4,40                   | 5,25  | 6,00  |
|                                          | min                             | 0,70                   | 0,70 | 1,00 | 1,75 | 1,75                   | 1,75  | 2,00  |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

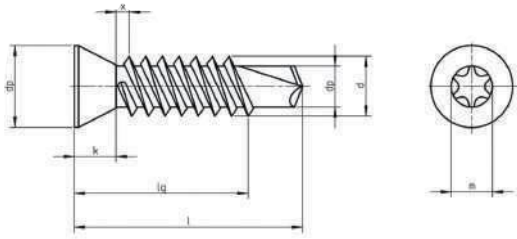
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# YILDIZ HAVŞA BAŞLI MATKAP UÇLU VİDA

## CROSS RECESSED COUNTERSUNK SELF DRILLING

## SENKKOPFSCHRAUBE MIT KREUZ



|                                                                                                                  |             |                                       |
|------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                            |
| <b>15482</b>                                                                                                     | <b>8119</b> | <b>7504P</b>                          |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 10666</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |       |       |
|------------------------------------------|---------------------------------|------------------------|------|------|------|------------------------|-------|-------|
| d                                        |                                 | 2,9                    | 3,5  | 3,9  | 4,2  | 4,8                    | 5,5   | 6,3   |
| k                                        | max                             | 5,00                   | 2,35 | 2,45 | 2,60 | 2,80                   | 3,00  | 3,15  |
| dk                                       | max                             | 5,50                   | 7,30 | 7,30 | 8,40 | 9,30                   | 10,30 | 11,30 |
|                                          | min                             | 5,20                   | 6,90 | 7,90 | 8,00 | 8,90                   | 9,90  | 10,90 |
| Nº                                       | PH Drv No<br>Phillips Recess No | 1                      | 2    |      |      |                        | 3     |       |
| m                                        | ~                               | 3,20                   | 4,40 | 4,50 | 4,60 | 5,20                   | 6,60  | 6,80  |
| Soket Derinliği Q<br>Penetration Depth Q | max                             | 2,10                   | 2,40 | 2,40 | 2,60 | 3,20                   | 3,30  | 3,50  |
|                                          | min                             | 1,70                   | 1,90 | 1,90 | 2,10 | 2,70                   | 2,80  | 3,00  |
| Plaka/Levha Kalınlığı<br>Steel Thickness | max                             | 1,90                   | 2,25 | 2,60 | 3,00 | 4,40                   | 5,25  | 6,00  |
|                                          | min                             | 0,70                   | 0,70 | 1,00 | 1,75 | 1,75                   | 1,75  | 2,00  |

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

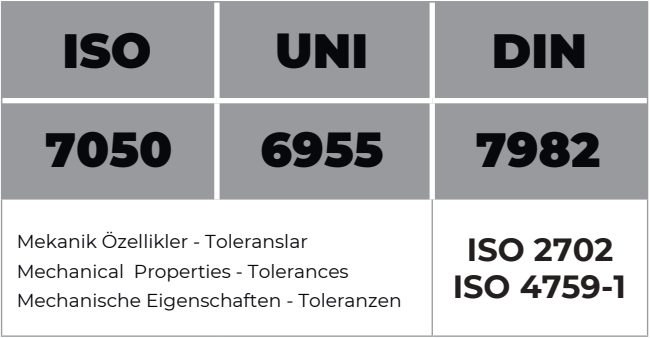
Werte sind in millimetern angegeben.



**YILDIZ HAVŞA BAŞLI SAÇ VİDASI**

PHILLIPS COUNTERSUNK FLAT HEAD SELF TAPPING SCREWS      SENK-BLENSCHRAUBE MIT KREUZSCHLITZ

## SENK-BLENSCHRAUBE MIT KREUZSCHLITZ

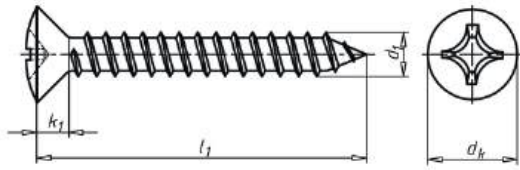
[illegible]

Werte sind in millimetern angegeben.

# YILDIZ MERCİMEK BAŞLI VİDA

## CROSS RECESSED RAISED COUNTERSUNK HEAD TAPPING SCREWS

## LINSENKOPF-BLECHSCHRAUBEN MIT KREUZSCHLITZ



|                                                                                                                  |             |                                      |
|------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                           |
| <b>7051</b>                                                                                                      | <b>6956</b> | <b>7983</b>                          |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 2702</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |      |       |       |
|------------------------------------------|---------------------------------|------------------------|------|------|------|------------------------|------|-------|-------|
| d                                        |                                 | 2,2                    | 2,9  | 3,5  | 3,9  | 4,2                    | 4,8  | 5,5   | 6,3   |
| dk                                       | max                             | 5,00                   | 5,50 | 6,80 | 7,50 | 8,10                   | 9,50 | 10,80 | 12,40 |
| f                                        | ~                               | 0,70                   | 0,90 | 1,20 | 1,30 | 1,40                   | 1,50 | 1,70  | 2,00  |
| k                                        | ~                               | 1,30                   | 1,70 | 2,10 | 2,30 | 2,50                   | 3,00 | 3,40  | 3,80  |
| r                                        | max                             | 0,80                   | 1,10 | 1,40 | 1,50 | 1,60                   | 1,90 | 2,10  | 2,40  |
| rf                                       | ~                               | 3,80                   | 4,60 | 5,40 | 6,00 | 6,60                   | 8,20 | 9,40  | 11,10 |
| Nº                                       | PH Drv No<br>Phillips Recess No | 1                      |      | 2    |      |                        |      | 3     |       |
| m                                        | ~                               | 2,80                   | 3,40 | 4,60 | 4,70 | 4,90                   | 5,40 | 7,00  | 7,40  |
| Soket Derinliği Q<br>Penetration Depth Q | max                             | 1,57                   | 2,21 | 2,39 | 2,54 | 2,74                   | 3,20 | 3,53  | 3,96  |
|                                          | min                             | 1,17                   | 1,81 | 1,89 | 2,04 | 2,24                   | 2,70 | 3,02  | 3,46  |

[illegible]

Değerler milimetre olarak verilmiştir.

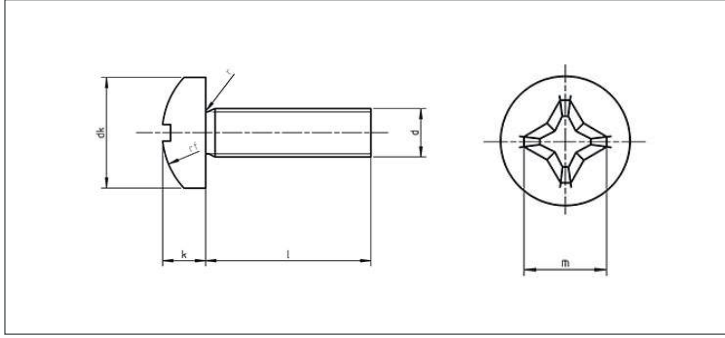
Values are given in millimeters.

Werte sind in millimetern angegeben.

# YILDIZ SİLİNDİR BAŞ METRİK VİDA

CROSS RECESSED PAN HEAD SCREWS

LINSENKOPFSCHRAUBE MIT KREUZSCHLITZ



| ISO                                                                                                              | UNI  | DIN                                   |
|------------------------------------------------------------------------------------------------------------------|------|---------------------------------------|
| 7045                                                                                                             | 7687 | 7985                                  |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | <b>ISO 898-1</b><br><b>ISO 4759-1</b> |

## TEKNİK BİLGİLER TECHNICAL INFORMATION TECHNISCHE INFORMATION

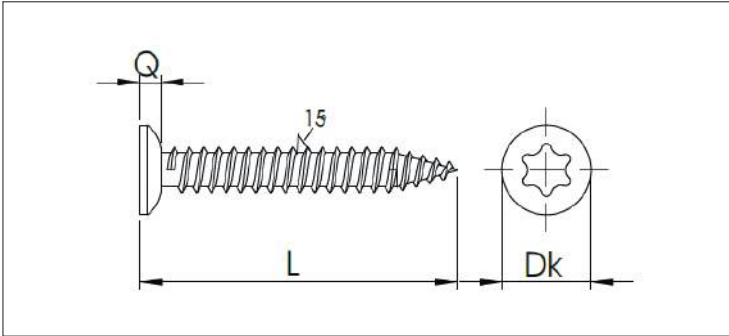
| d                                        |                                 | M1,6 | M2   | M2,5 | M3   | M4   | M5    | M6    | M8    | M10   |
|------------------------------------------|---------------------------------|------|------|------|------|------|-------|-------|-------|-------|
| dk                                       | max                             | 5,00 | 4,00 | 5,00 | 6,00 | 8,00 | 10,00 | 12,00 | 16,00 | 20,00 |
|                                          | min                             | 3,00 | 3,70 | 4,70 | 5,70 | 7,64 | 9,64  | 11,57 | 15,57 | 19,48 |
| k                                        | Nominal                         | 1,30 | 1,60 | 2,00 | 2,40 | 3,10 | 3,80  | 4,60  | 6,00  | 7,50  |
|                                          | max                             | 1,42 | 1,72 | 2,12 | 2,52 | 3,25 | 3,95  | 4,75  | 6,15  | 7,68  |
|                                          | min                             | 1,18 | 1,48 | 1,88 | 2,28 | 2,95 | 3,65  | 4,45  | 5,85  | 7,32  |
| Nº                                       | PH Drv No<br>Phillips Recess No | 0    | 1    |      |      | 2    |       | 3     | 4     |       |
| m                                        | ~                               | 1,80 | 2,50 | 2,70 | 3,10 | 4,60 | 5,30  | 6,80  | 9,00  | 10,20 |
| Soket Derinliği Q<br>Penetration Depth Q | max                             | 1,02 | 1,40 | 1,60 | 2,00 | 2,54 | 3,27  | 3,53  | 4,68  | 5,88  |
|                                          | min                             | 1,00 | 1,10 | 1,30 | 1,70 | 2,04 | 2,77  | 3,03  | 4,18  | 5,38  |

| l  | min   | max   | M1,6 | M2   | M2,5 | M3   | M4   | M5    | M6    | M8    | M10   |
|----|-------|-------|------|------|------|------|------|-------|-------|-------|-------|
| 2  | 1,80  | 2,20  | 0,09 |      |      |      |      |       |       |       |       |
| 3  | 2,80  | 3,20  | 0,10 |      |      |      |      |       |       |       |       |
| 4  | 3,75  | 4,25  | 0,11 | 0,20 | 0,37 | 0,54 |      |       |       |       |       |
| 5  | 4,75  | 5,25  | 0,12 | 0,22 | 0,40 | 0,59 | 1,40 |       |       |       |       |
| 6  | 5,75  | 6,25  | 0,13 | 0,23 | 0,43 | 0,63 | 1,48 | 2,66  |       |       |       |
| 7  |       |       |      |      |      | 0,68 | 1,56 |       |       |       |       |
| 8  | 7,70  | 8,30  | 0,16 | 0,27 | 0,49 | 0,72 | 1,63 | 2,91  | 4,37  |       |       |
| 10 | 9,70  | 10,30 | 0,18 | 0,31 | 0,55 | 0,81 | 1,79 | 3,16  | 4,72  | 10,90 |       |
| 12 | 11,65 | 12,35 | 0,20 | 0,34 | 0,61 | 0,90 | 1,94 | 3,41  | 5,07  | 11,50 | 21,20 |
| 14 | 13,65 | 14,35 | 0,23 | 0,38 | 0,67 | 0,98 | 2,10 | 3,66  | 5,42  | 12,20 | 22,20 |
| 16 | 15,65 | 16,35 | 0,25 | 0,42 | 0,73 | 1,07 | 2,25 | 3,91  | 5,78  | 12,80 | 23,20 |
| 18 | 17,65 | 18,35 |      |      |      | 1,16 | 2,41 | 4,16  | 6,14  |       |       |
| 20 | 19,60 | 20,40 |      | 0,49 | 0,85 | 1,25 | 2,56 | 4,41  | 6,48  | 14,20 | 25,20 |
| 22 | 21,60 | 22,40 |      |      |      | 1,34 | 2,72 | 4,66  | 6,82  |       | 27,70 |
| 25 | 24,60 | 25,40 |      |      | 1,00 | 1,47 | 2,94 | 5,03  | 7,36  | 15,80 | 30,20 |
| 30 | 29,60 | 30,40 |      |      | 1,18 | 1,71 | 3,44 | 5,70  | 8,24  | 17,50 | 32,70 |
| 35 | 34,50 | 35,50 |      |      |      |      | 3,94 | 6,50  | 9,12  | 19,10 | 35,20 |
| 40 | 39,50 | 40,50 |      |      |      |      |      | 7,30  | 10,00 | 20,70 | 37,70 |
| 45 | 44,50 | 45,50 |      |      |      |      |      | 8,00  | 10,90 | 22,30 | 41,20 |
| 50 | 49,50 | 50,50 |      |      |      |      |      | 8,77  | 11,80 | 23,90 | 43,70 |
| 55 | 54,00 | 56,00 |      |      |      |      |      | 9,52  | 12,60 | 25,50 | 46,20 |
| 60 | 59,00 | 61,00 |      |      |      |      |      | 10,27 | 13,50 | 27,10 |       |
| 65 | 64,00 | 66,00 |      |      |      |      |      | 11,02 | 14,33 | 28,70 |       |
| 70 | 69,00 | 71,00 |      |      |      |      |      | 11,77 | 15,18 | 30,30 |       |
| 75 | 74,00 | 76,00 |      |      |      |      |      | 12,52 | 16,03 | 31,90 |       |
| 80 | 79,00 | 81,00 |      |      |      |      |      | 13,27 | 16,88 | 33,50 |       |
|    |       |       |      |      |      |      |      |       |       |       |       |
|    |       |       |      |      |      |      |      |       |       |       |       |
|    |       |       |      |      |      |      |      |       |       |       |       |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



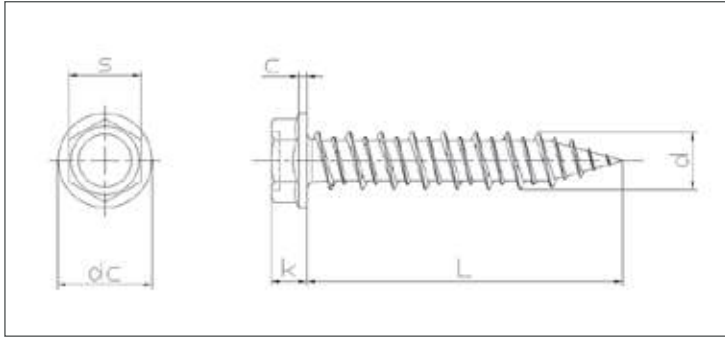
| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

# BETON VİDASI

## MASONRY SCREWS

MAUERWERK SCHRAUBE



| ISO                                                                                                                                   | UNI | DIN                    |
|---------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------|
| -                                                                                                                                     | -   | -                      |
| <i>Mekanik Özellikler - Toleranslar</i><br><i>Mechanical Properties - Tolerances</i><br><i>Mechanische Eigenschaften - Toleranzen</i> |     | <b>ISO 7323-6</b><br>- |

| TEKNİK BİLGİLER |                            | TECHNICAL INFORMATION | TECHNISCHE INFORMATION |
|-----------------|----------------------------|-----------------------|------------------------|
| d               |                            | 6,3                   |                        |
| k               | max                        | 5,40                  |                        |
|                 | min                        | 4,80                  |                        |
| d               | max                        | 6,15                  |                        |
|                 | min                        | 6,30                  |                        |
| Nº              | NST Recess No<br>MG Drv No | 8,00                  |                        |
| s               | max                        | 8,00                  |                        |
|                 | min                        | 7,78                  |                        |
| dc              | max                        | 11,00                 |                        |
|                 | min                        | 10,00                 |                        |
| c               | min                        | 1,00                  |                        |

[illegible]

Değerler milimetre olarak verilmiştir.

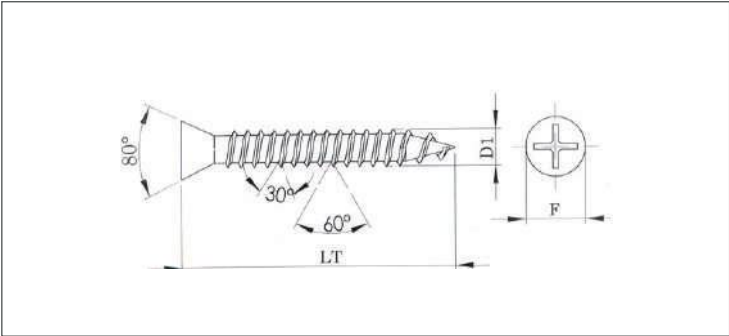
Values are given in millimeters.

Werte sind in millimetern angegeben.

## ISPANYOLET VİDASI

ESPAGNOLETTE SCREW DREHSTANGENVERSCHLUSS-SCHRAUBE

ESPAGNOLETTE SCREW DREHSTANGENVERSCHLUSS-SCHRAUBE



| ISO                                                                                                              | UNI | DIN                    |
|------------------------------------------------------------------------------------------------------------------|-----|------------------------|
| -                                                                                                                | -   | -                      |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 7323-6</b><br>- |

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

| d                                        |                                 | 3,9  | 4,2  | 4,8  |
|------------------------------------------|---------------------------------|------|------|------|
| d                                        | max                             | 4,01 | 4,20 | 4,62 |
|                                          | min                             | 3,76 | 3,90 | 4,80 |
| dk                                       | max                             | 7,20 | 7,80 | 9,50 |
|                                          | min                             | 6,80 | 7,40 | 9,14 |
| k                                        | max                             | 3,00 | 3,80 |      |
| Nº                                       | PH Drv No<br>Phillips Recess No | 2    | 2    | 2    |
| m                                        | ~                               | 4,60 | 4,70 | 5,20 |
| Soket Derinliği Q<br>Penetration Depth Q | max                             | 2,53 | 2,62 | 3,20 |
|                                          | min                             | 2,03 | 2,11 | 2,70 |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

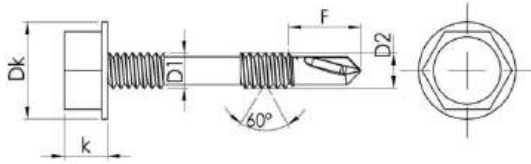
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## POLİÜRETAN PANEL VİDASI 6MM

## COMPOSITE PANEL SELF DRILLING SCREW

## SELBSTBOHRENDE PANEEL SCHRAUBE



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER |                            | TECHNICAL INFORMATION | TECHNISCHE INFORMATION |
|-----------------|----------------------------|-----------------------|------------------------|
| d               |                            |                       | 5,5                    |
| d1              | max                        |                       | 5,20                   |
|                 | min                        |                       | 5,45                   |
| d2              | max                        |                       | 6,30                   |
|                 | min                        |                       | 6,00                   |
| k               | max                        |                       | 5,45                   |
|                 | min                        |                       | 5,15                   |
| Nº              | NST Recess No<br>MG Drv No |                       | 8                      |
| s               | max                        |                       | 8,00                   |
|                 | min                        |                       | 7,78                   |
| F               | max                        |                       | 8,50                   |
|                 | min                        |                       | 7,50                   |
| dc              | max                        |                       | 11,00                  |
|                 | min                        |                       | 10,00                  |
| c               | min                        |                       | 1,16                   |

[illegible]

Değerler milimetre olarak verilmiştir.

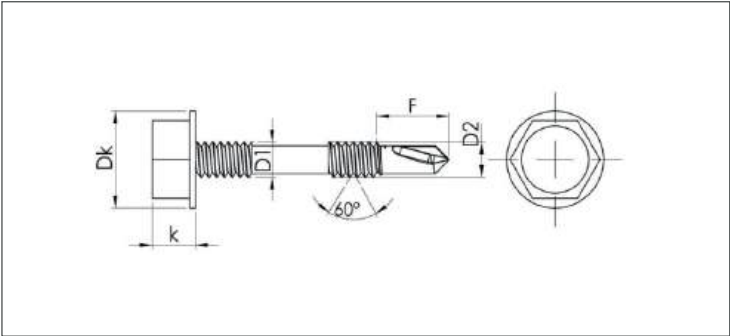
Values are given in millimeters.

Werte sind in millimetern angegeben.

## POLİÜRETAN PANEL VİDASI 12MM

COMPOSITE PANEL SELF DRILLING SCREW      SELBSTBOHRENDE PANEEL SCHRAUBE

COMPOSITE PANEL SELF DRILLING SCREW      SELBSTBOHRENDE PANEEL SCHRAUBE



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

|    |                            |       |
|----|----------------------------|-------|
| d  |                            | 5,5   |
| d1 | max                        | 5,20  |
|    | min                        | 5,45  |
| d2 | max                        | 6,30  |
|    | min                        | 6,00  |
| k  | max                        | 5,45  |
|    | min                        | 5,15  |
| Nº | NST Recess No<br>MG Drv No | 8     |
| s  | max                        | 8,00  |
|    | min                        | 7,78  |
| F  | max                        | 15,00 |
|    | min                        | 14,00 |
| dc | max                        | 11,00 |
|    | min                        | 10,00 |
| c  | max                        | 1,16  |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

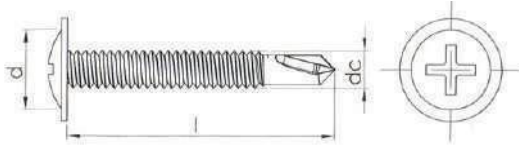
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## PUL BAŞLI MATKAPUÇLU VİDA

## MODIFY TRUSS HEAD SELF DRILLING SCREW

## SELBSTBOHRENDE SCHRAUBE MIT SCHEIBENKOPF



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATION | TECHNISCHE INFORMATION |
|------------------------------------------|---------------------------------|-----------------------|------------------------|
| d                                        |                                 | 3,9                   | 4,2                    |
| d                                        | max                             | 3,91                  | 4,22                   |
|                                          | min                             | 3,73                  | 4,04                   |
| dk                                       | ~                               | 7,00                  | 8,00                   |
| dc                                       | max                             | 10,00                 | 11,00                  |
|                                          | min                             | 9,70                  | 10,6                   |
| c                                        | max                             | 1,25                  | 1,25                   |
|                                          | min                             | 1,00                  | 1,00                   |
| k                                        | max                             | 2,50                  | 2,90                   |
|                                          | min                             | 2,20                  | 2,40                   |
| Nº                                       | PH Drv No<br>Phillips Recess No | 2                     | 2                      |
| m                                        | ~                               | 4,40                  | 4,60                   |
| Soket Derinliği Q<br>Penetration Depth Q | max                             | 2,03                  | 2,40                   |
|                                          | min                             | 1,40                  | 1,40                   |

[illegible]

Değerler milimetre olarak verilmiştir.

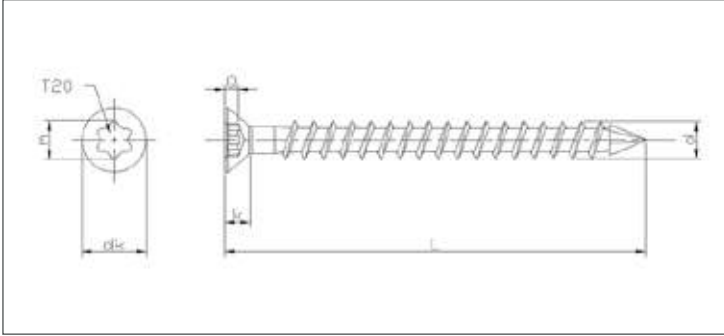
Values are given in millimeters.

Werte sind in millimetern angegeben.

# MDF VIDASI

MDF SCREW

MDF SCHRAUBE



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER                          |                               | TECHNICAL INFORMATION |      | TECHNISCHE INFORMATION |  |
|------------------------------------------|-------------------------------|-----------------------|------|------------------------|--|
| d                                        |                               | 3,5                   | 4    |                        |  |
| d                                        | max                           | 5,00                  | 4    |                        |  |
|                                          | min                           | 3,20                  | 3,75 |                        |  |
| dk                                       | max                           | 6,30                  | 7,00 |                        |  |
|                                          | min                           | 6,00                  | 6,50 |                        |  |
| k                                        | max                           | 3,10                  | 2,90 |                        |  |
| Nº                                       | Torx Drv No<br>Torx Recess No | T20                   | T20  |                        |  |
| m                                        | ~                             | 3,95                  | 3,95 |                        |  |
| Soket Derinliği Q<br>Penetration Depth Q | max                           | 1,60                  | 1,80 |                        |  |
|                                          | min                           | 1,30                  | 1,40 |                        |  |

[illegible]

Değerler milimetre olarak verilmiştir.

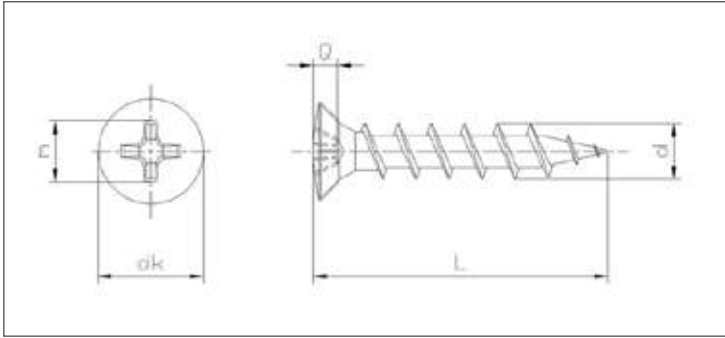
Values are given in millimeters.

Werte sind in millimetern angegeben.

# CRP VIDASI

## CRP SCREW

CRP SCHRAUBE



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATIONS |  |  | TECHNISCHE INFORMATION |  |  |
|------------------------------------------|---------------------------------|------------------------|--|--|------------------------|--|--|
| d                                        |                                 | D                      |  |  |                        |  |  |
| d                                        | max                             | 5,00                   |  |  |                        |  |  |
|                                          | min                             | 4,00                   |  |  |                        |  |  |
| dk                                       | max                             | 7,30                   |  |  |                        |  |  |
|                                          | min                             | 7,00                   |  |  |                        |  |  |
| N°                                       | PH Drv No<br>Phillips Recess No | 2,00                   |  |  |                        |  |  |
| m                                        | ~                               | 4,50                   |  |  |                        |  |  |
| Soket Derinliği Q<br>Penetration Depth Q | max                             | 2,60                   |  |  |                        |  |  |
|                                          | min                             | 2,20                   |  |  |                        |  |  |

[illegible]

Değerler milimetre olarak verilmiştir.

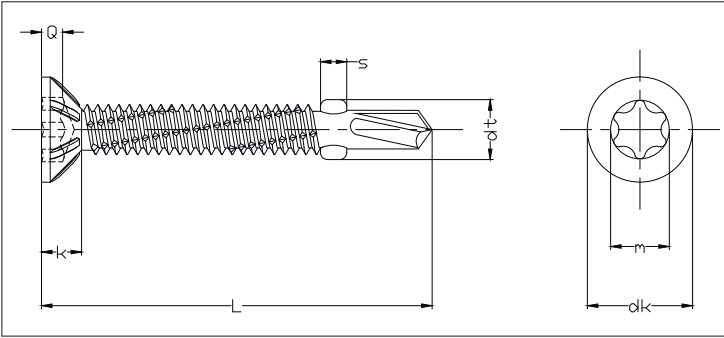
Values are given in millimeters.

Werte sind in millimetern angegeben.

## KONTEYNER VİDASI

CONTAINER SCREW CONTAINERSCHRAUBE

CONTAINER SCREW CONTAINERSCHRAUBE



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER                          |                               | TECHNICAL INFORMATION |       | TECHNISCHE INFORMATION |       |
|------------------------------------------|-------------------------------|-----------------------|-------|------------------------|-------|
| d                                        |                               |                       | 5,5   |                        | 6,3   |
| d                                        | max                           |                       | 5,00  |                        | 6,35  |
|                                          | min                           |                       | 5,32  |                        | 6,17  |
| dk                                       | max                           |                       | 10,80 |                        | 12,40 |
|                                          | min                           |                       | 10,37 |                        | 11,97 |
| k                                        | ~                             |                       | 3,40  |                        | 3,80  |
| s                                        | max                           |                       | 3,70  |                        | 4,00  |
| dt                                       | ~                             |                       | 7,50  |                        | 8,30  |
| Nº                                       | Torx Drv No<br>Torx Recess No |                       | T25   |                        | T30   |
| m                                        | ~                             |                       | 4,52  |                        | 5,63  |
| Soket Derinliği Q<br>Penetration Depth Q | max                           |                       | 2,30  |                        | 2,70  |
|                                          | min                           |                       | 1,90  |                        | 2,30  |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

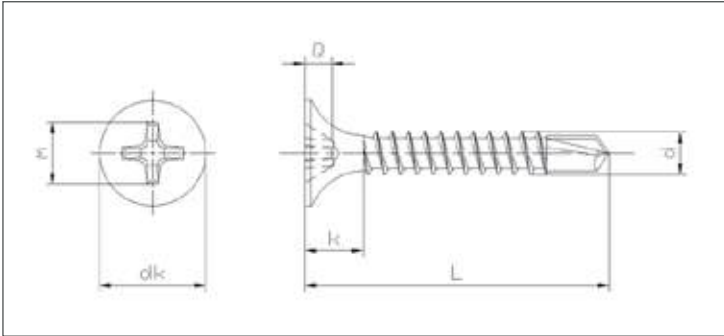
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## MATKAP UÇLU ALÇIPAN VİDASI

DRYWALL SCREW BUGLE HEAD SELF DRILLING SCREW SELBSTBOHRENDE GIPSBRETTSCHRAUBE

DRYWALL SCREW BUGLE HEAD SELF DRILLING SCREW SELBSTBOHRENDE GIPSBRETTSCHRAUBE



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATION | TECHNISCHE INFORMATION |
|------------------------------------------|---------------------------------|-----------------------|------------------------|
| d                                        |                                 |                       | 3,5                    |
| d                                        | max                             |                       | 3,53                   |
|                                          | min                             |                       | 3,35                   |
| dk                                       | max                             |                       | 8,50                   |
|                                          | min                             |                       | 8,14                   |
| k                                        | max                             |                       | 7,00                   |
|                                          | min                             |                       | 4,00                   |
| Nº                                       | PH Drv No<br>Phillips Recess No |                       | 2                      |
| m                                        | ~                               |                       | 4,70                   |
| Soket Derinliği Q<br>Penetration Depth Q | max                             |                       | 2,60                   |
|                                          | min                             |                       | 2,10                   |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

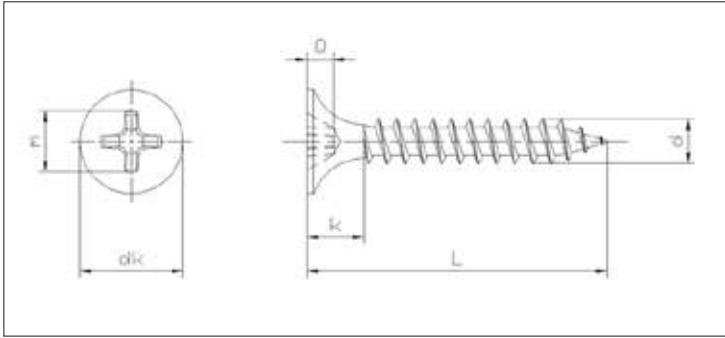
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## SIK DIŞ ALÇIPAN VİDASI

## DRYWALL SCREW FINE THREAD

## GIPSBRETTSCHRAUBE FEINES GEWINDE



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATION | TECHNISCHE INFORMATION |
|------------------------------------------|---------------------------------|-----------------------|------------------------|
| d                                        |                                 |                       | 3,5                    |
| d                                        | max                             |                       | 3,70                   |
|                                          | min                             |                       | 3,40                   |
| dk                                       | max                             |                       | 8,50                   |
|                                          | min                             |                       | 8,15                   |
| k                                        | max                             |                       | 7,00                   |
|                                          | min                             |                       | 4,00                   |
| Nº                                       | PH Drv No<br>Phillips Recess No |                       | 2                      |
| m                                        | ~                               |                       | 4,70                   |
| Soket Derinliği Q<br>Penetration Depth Q | max                             |                       | 2,60                   |
|                                          | min                             |                       | 2,10                   |

[illegible]

Değerler milimetre olarak verilmiştir.

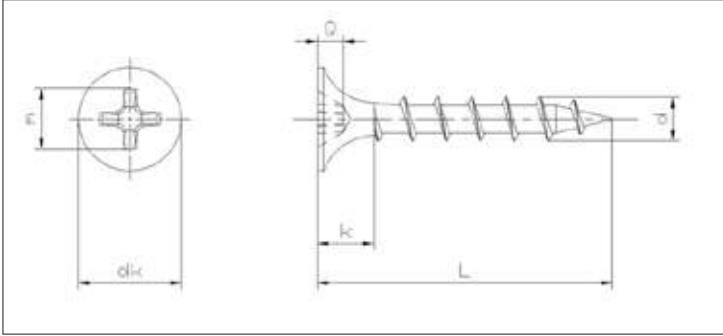
Values are given in millimeters.

Werte sind in millimetern angegeben.

## SEYREK DİŞLİ ALÇIPAN VİDASI

## DRYWALL SCREW COARSE THREAD

## GIPSBRETTSCHRAUBE GROBES GEWINDE



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATIONS | TECHNISCHE INFORMATION |
|------------------------------------------|---------------------------------|------------------------|------------------------|
| d                                        |                                 |                        | 3,5                    |
| d                                        | max                             |                        | 3,70                   |
|                                          | min                             |                        | 3,40                   |
| dk                                       | max                             |                        | 8,50                   |
|                                          | min                             |                        | 8,15                   |
| k                                        | max                             |                        | 7,00                   |
|                                          | min                             |                        | 4,00                   |
| Nº                                       | PH Drv No<br>Phillips Recess No |                        | 2                      |
| m                                        | ~                               |                        | 4,70                   |
| Soket Derinliği Q<br>Penetration Depth Q | max                             |                        | 2,60                   |
|                                          | min                             |                        | 2,10                   |

[illegible]

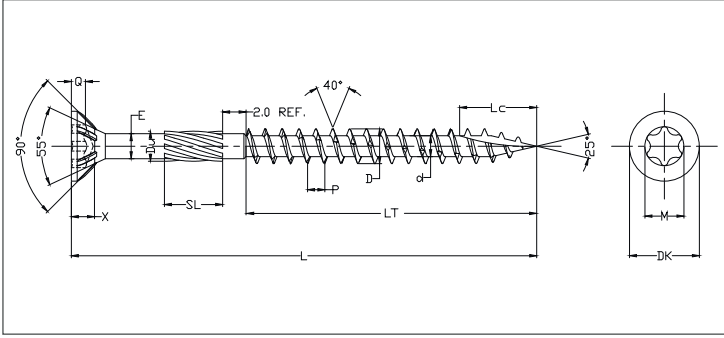
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# TORX YHB AHŞAP VİDA

TORX DRIVE DOUBLE FLAT HEAD TIMBER SCREWS DOPPELTE FLACHKOPF-HOLZSCHRAUBEN MIT TORX-ANTRIEB



**EN ISO**

**UNI**

**DIN**

-

-

-

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

-

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

|    |                       | 3    | 3,5  | 4    | 4,5  | 5     | 6     | 8     | 10    |
|----|-----------------------|------|------|------|------|-------|-------|-------|-------|
| D  | Min                   | 2,80 | 3,30 | 3,80 | 4,20 | 4,70  | 5,80  | 7,80  | 9,70  |
|    | Max                   | 3,10 | 3,60 | 4,10 | 4,60 | 5,10  | 6,20  | 8,30  | 10,30 |
| Du | Min                   | 2,50 | 2,80 | 3,40 | 3,80 | 4,00  | 4,70  | 6,70  | 7,70  |
|    | Max                   | 2,80 | 3,20 | 3,80 | 4,20 | 4,40  | 5,10  | 7,10  | 8,10  |
| DK | Min                   | 5,60 | 6,60 | 7,50 | 8,50 | 9,50  | 11,50 | 14,30 | 17,40 |
|    | Max                   | 6,00 | 7,00 | 8,00 | 9,00 | 10,00 | 12,00 | 15,20 | 18,20 |
| X  | Min                   | 1,70 | 1,90 | 2,20 | 2,40 | 2,70  | 3,10  | 4,00  | 5,00  |
|    | Max                   | 2,00 | 2,20 | 2,60 | 2,80 | 3,10  | 3,80  | 4,80  | 5,80  |
| Q  | Min                   | 1,10 | 1,30 | 1,70 | 1,70 | 2,00  | 2,40  | 3,00  | 3,40  |
|    | Max                   | 1,40 | 1,60 | 2,00 | 2,00 | 2,40  | 2,85  | 3,45  | 3,85  |
| E  | Min                   | 2,05 | 2,35 | 2,70 | 3,10 | 3,50  | 4,20  | 5,70  | 6,85  |
|    | Max                   | 2,25 | 2,45 | 2,80 | 3,20 | 3,60  | 4,30  | 5,80  | 6,95  |
| SL | Ref                   | 4,00 | 5,00 | 5,00 | 6,00 | 8,00  | 12,00 | 12,00 | 12,00 |
| Lc | Min                   | 5,00 | 6,00 | 7,00 | 8,00 | 10,00 | 12,00 | 14,00 | 16,00 |
|    | Max                   | 6,00 | 7,00 | 8,00 | 9,00 | 12,00 | 14,00 | 16,00 | 18,00 |
| M  | Ref                   | 2,82 | 3,35 | 3,94 | 4,50 | 4,50  | 5,60  | 6,75  | 6,75  |
| Nº | T No<br>Torx Drive No | 10   | 15   | 20   | 25   | 25    | 30    | 40    | 40    |

| I   | LT     |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|     | min    | max    | min   | max   | min   | max   | min   | max   | min   | max   | min   | max   | min   | max   | min   | max   | min   | max   |
| 16  | 15,00  | 16,00  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 20  | 19,00  | 20,00  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 25  | 23,75  | 25,00  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 30  | 28,75  | 30,00  | 13,00 | 15,00 | 13,00 | 15,00 | 13,00 | 15,00 | 13,00 | 15,00 | 13,00 | 15,00 |       |       |       |       |       |       |
| 35  | 33,75  | 35,00  | 13,00 | 15,00 | 13,00 | 15,00 | 13,00 | 15,00 | 13,00 | 15,00 | 13,00 | 15,00 |       |       |       |       |       |       |
| 40  | 38,75  | 40,00  | 23,00 | 25,00 | 23,00 | 25,00 | 23,00 | 25,00 | 23,00 | 25,00 | 23,00 | 25,00 | 18,00 | 20,00 |       |       |       |       |
| 45  | 43,75  | 45,00  | 23,00 | 25,00 | 23,00 | 25,00 | 23,00 | 25,00 | 23,00 | 25,00 | 23,00 | 25,00 |       |       |       |       |       |       |
| 50  | 48,50  | 50,00  |       |       | 23,00 | 25,00 | 23,00 | 25,00 | 23,00 | 25,00 | 23,00 | 25,00 | 23,00 | 25,00 |       |       |       |       |
| 55  | 53,50  | 55,00  |       |       |       |       | 32,00 | 35,00 |       |       |       |       |       |       |       |       |       |       |
| 60  | 58,50  | 60,00  |       |       |       |       | 32,00 | 35,00 | 32,00 | 35,00 | 32,00 | 35,00 |       |       |       |       |       |       |
| 70  | 68,50  | 70,00  |       |       |       |       | 38,00 | 40,00 | 38,00 | 40,00 | 38,00 | 40,00 | 38,00 | 40,00 |       |       |       |       |
| 80  | 78,25  | 80,00  |       |       |       |       |       |       | 48,00 | 50,00 | 48,00 | 50,00 | 48,00 | 50,00 | 48,00 | 50,00 | 48,00 | 50,00 |
| 90  | 88,25  | 90,00  |       |       |       |       |       |       |       |       | 48,00 | 50,00 | 48,00 | 50,00 | 48,00 | 50,00 | 48,00 | 50,00 |
| 100 | 98,25  | 100,00 |       |       |       |       |       |       |       |       | 48,00 | 50,00 | 48,00 | 50,00 | 48,00 | 50,00 | 48,00 | 50,00 |
| 110 | 108,25 | 110,00 |       |       |       |       |       |       |       |       | 58,00 | 60,00 | 78,00 | 80,00 | 48,00 | 50,00 | 78,00 | 80,00 |
| 120 | 118,00 | 120,00 |       |       |       |       |       |       |       |       | 68,00 | 70,00 | 78,00 | 80,00 | 78,00 | 80,00 | 78,00 | 80,00 |
|     |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|     |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|     |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|     |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|     |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

The background is a solid dark blue color with a complex geometric pattern of overlapping squares and rectangles in various shades of blue, creating a sense of depth and movement. A faint, light blue circle is centered behind the text.

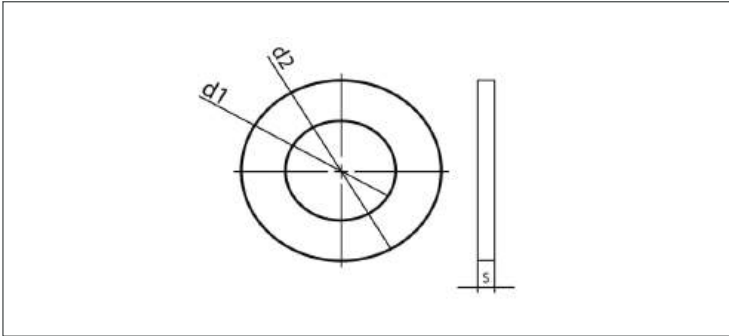
# **RONDELA GRUBU**

## WASHERS

## DÜZ RONDELA DIN 125 A

FLAT WASHER UNTERLEGSCHIBE

FLAT WASHER UNTERLEGSCHIBE



**ISO**

**UNI**

**DIN**

7089

6592

125 A

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI EN  
10025**

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

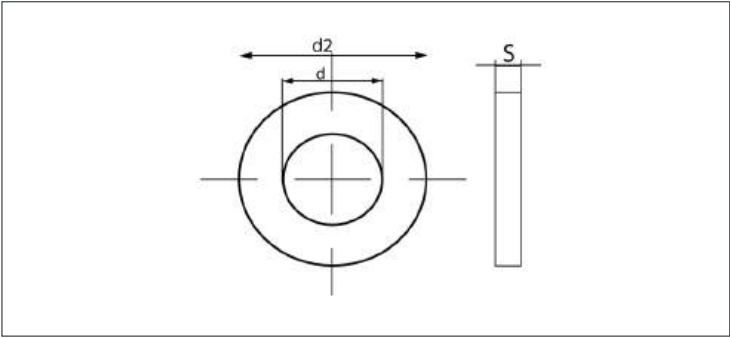
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INC DUZ RONDELA DIN 125 A

FLAT WASHER UNTERLEGSCHIEBE

FLAT WASHER UNTERLEGSCHIBE



|                                                                                                                  |            |              |
|------------------------------------------------------------------------------------------------------------------|------------|--------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>   |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>125 A</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>-</b>     |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

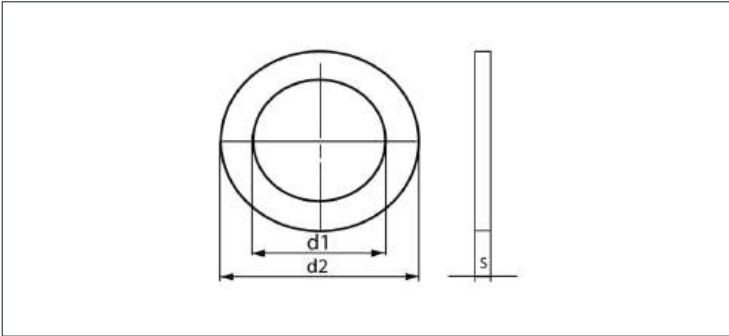
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## DÜZ RONDELA DIN 126

FLAT WASHER UNTERLEGSCHIEBE

FLAT WASHER UNTERLEGSCHIBE



**ISO**

**UNI**

**DIN**

7091

126

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI EN  
10025**

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

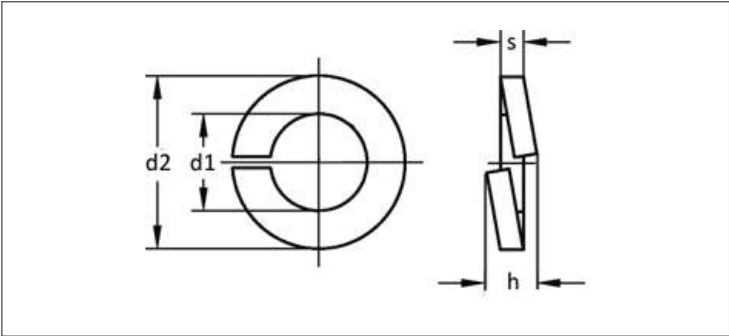
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## YAYLI RONDELA DIN 127 B

SPRING WASHER FEDERSCHEIBE

SPRING WASHER FEDERSCHEIBE



|                                                                                                                  |             |                               |
|------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                    |
| <b>-</b>                                                                                                         | <b>1751</b> | <b>127 B</b>                  |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>UNI EN</b><br><b>10270</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

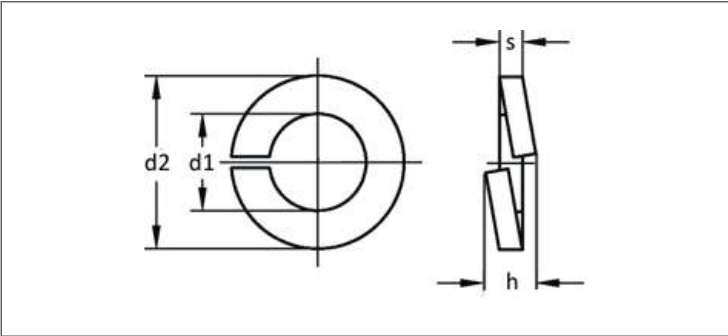
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INC YAYLI RONDELA DIN 127

FLAT WASHER UNTERLEGSCHIEBE

FLAT WASHER UNTERLEGSCHIEBE



|                                                                                                                  |            |            |
|------------------------------------------------------------------------------------------------------------------|------------|------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b> |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>127</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>-</b>   |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

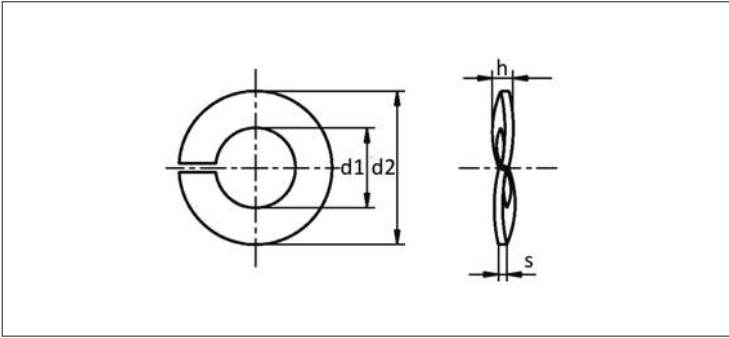
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## YAYLI RONDELA DIN 128 A

SPLIT SPRING WASHER TYPE A GETEILTE FEDERSCHEIBEN TYP A

SPLIT SPRING WASHER TYPE A GETEILTE FEDERSCHEIBEN TYP A



| ISO                                                                                                              | UNI  | DIN   |
|------------------------------------------------------------------------------------------------------------------|------|-------|
| -                                                                                                                | 8839 | 128 A |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | -     |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

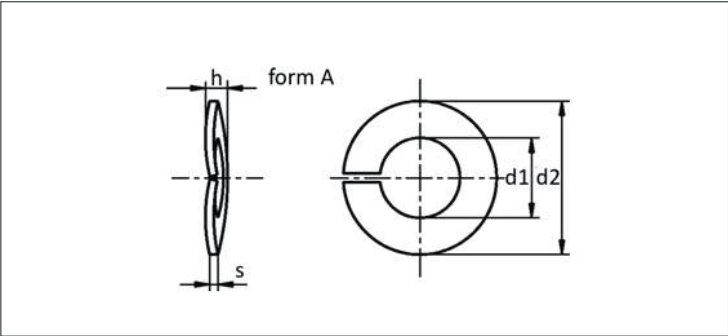
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## EĞİMLİ YAYLI RONDELA DIN 128A

SPLIT SPRING WASHERS CURVED FORM A      GETEILTE FEDERSCHEIBEN GEBOGENE FORM A

SPLIT SPRING WASHERS CURVED FORM A



|                                                                                                                  |             |                               |
|------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                    |
| <b>-</b>                                                                                                         | <b>8839</b> | <b>128 A</b>                  |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>UNI EN</b><br><b>10270</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

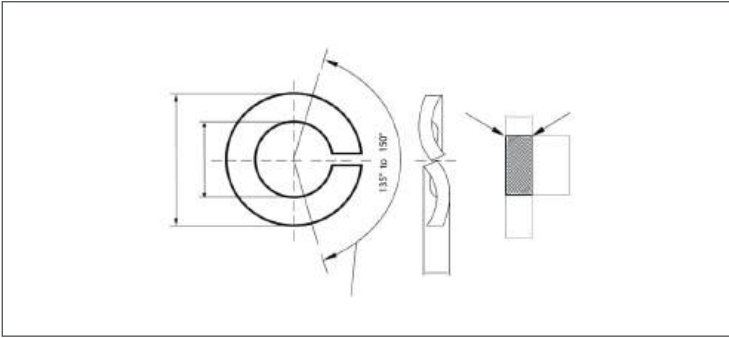
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## EĞİMLİ YAYLI RONDELA DIN 128 B

SPLIT SPRING WASHERS CURVED FORM B      GETEILTE FEDERSCHEIBEN GEBOGENE FORM A

SPLIT SPRING WASHERS CURVED FORM B      GETEILTE FEDERSCHEIBEN GEBOGENE FORM A



|                                                                                                                  |             |                         |
|------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>              |
| <b>-</b>                                                                                                         | <b>8839</b> | <b>128 B</b>            |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>UNI EN<br/>10270</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

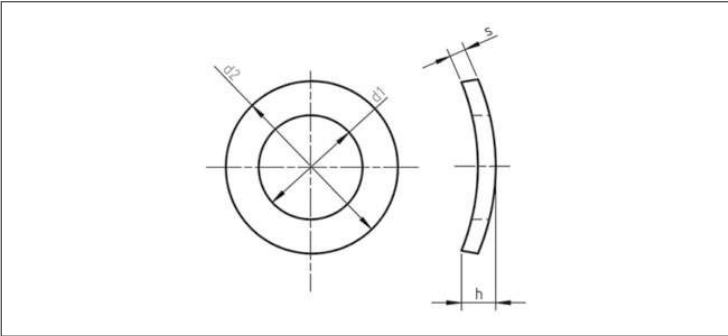
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## ONDÜLA RONDELA DIN 137 A

WAVE SPRING WASHERS WELLENFEDERSCHEIBEN

WAVE SPRING WASHERS WELLENFEDERSCHEIBEN



|                                                                                                                  |            |                                                    |
|------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                                         |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>137A</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>UNI EN</b><br><b>10132-4</b><br><b>(267-26)</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

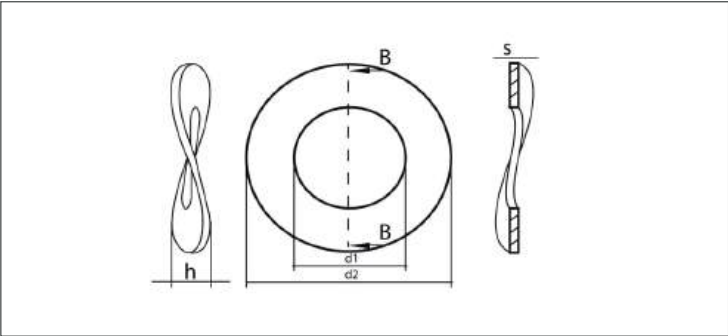
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## ONDÜLA RONDELA DIN 137 B

WAVE SPRING WASHERS WELLENFEDERSCHEIBEN

WAVE SPRING WASHERS WELLENFEDERSCHEIBEN



|                                                                                                                  |            |                                                    |
|------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                                         |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>137B</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>UNI EN</b><br><b>10132-4</b><br><b>(267-26)</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

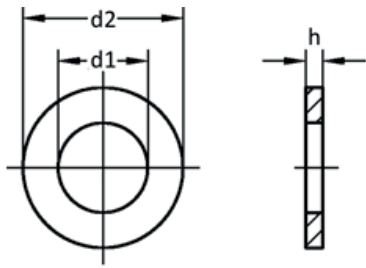
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## DÜZ RONDELA DIN 433

## DIN 433 FLAT WASHERS

## DIN 433 UNTERLEGSCHEIBEN



|                                                                                                                  |             |            |
|------------------------------------------------------------------------------------------------------------------|-------------|------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b> |
| <b>7092</b>                                                                                                      | <b>6592</b> | <b>433</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | -          |

Değerler milimetre olarak verilmiştir.

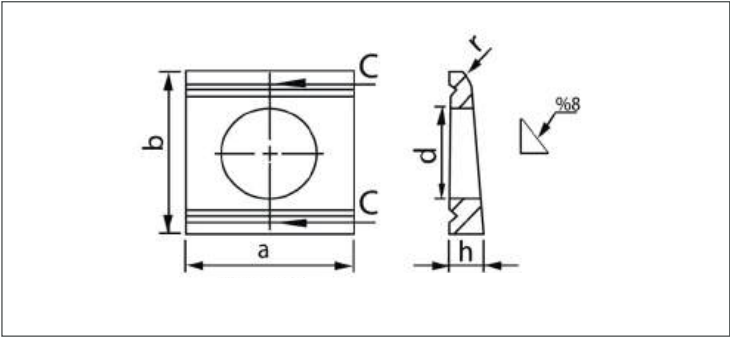
Values are given in millimeters.

Werte sind in millimetern angegeben.

## DÖRT KÖŞE U RONDELA DIN 434

FOUR CORNER U WASHER U-UNTERLEGSCHIEBE MIT VIER ECKEN

FOUR CORNER U WASHER      U-UNTERLEGSCHIEBE MIT VIER ECKEN



|                                                                                                                  |             |                         |
|------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>              |
| <b>-</b>                                                                                                         | <b>6598</b> | <b>434</b>              |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>UNI EN<br/>10025</b> |

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

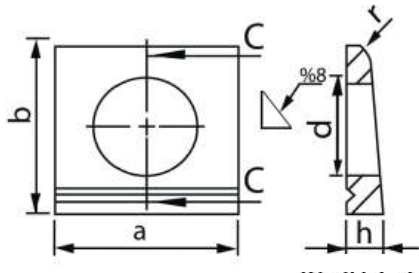
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## DÖRT KÖŞE RONDELA I TİPİ DIN 435

## DIN 435 SQUARE TAPER WASHER TYPE I

# DIN 435 KEGELSCHEIBEN TYP I



|                                                                                                                  |             |            |
|------------------------------------------------------------------------------------------------------------------|-------------|------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b> |
| <b>-</b>                                                                                                         | <b>5717</b> | <b>435</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>-</b>   |

[illegible]

Değerler milimetre olarak verilmiştir.

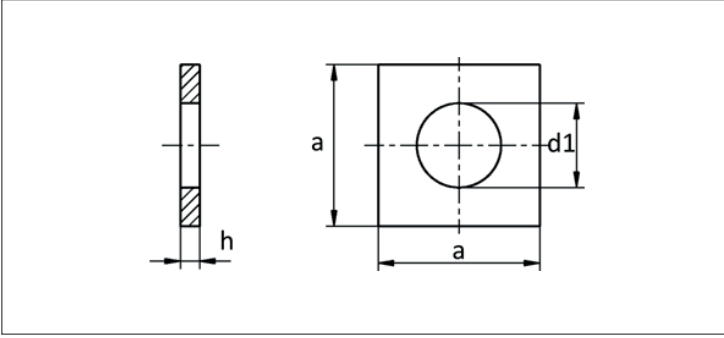
Values are given in millimeters.

Werte sind in millimetern angegeben.

## KARE RONDELA DIN 436

## SQUARE STAMP

## QUADRATISCHER STEMPEL



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | 436 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

Değerler milimetre olarak verilmiştir.

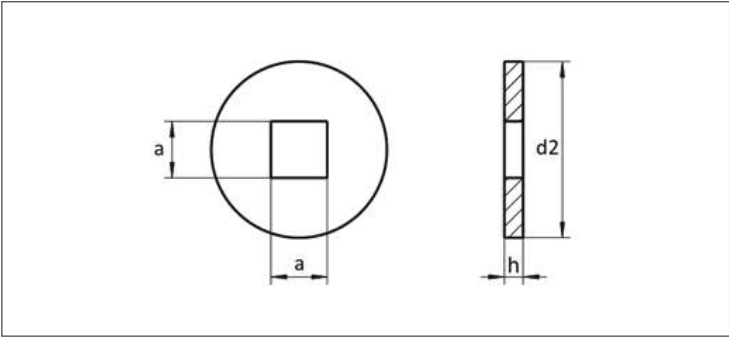
Values are given in millimeters.

Werte sind in millimetern angegeben.

## KARE DELİKLİ RONDELA DIN 440 V

DIN 440 V WASHERS WITH SQUARE HOLES DIN 440 V SCHEIBEN MIT QUADRATISCHEN LÖCHERN

DIN 440 V WASHERS WITH SQUARE HOLES DIN 440 V SCHEIBEN MIT QUADRATISCHEN LÖCHERN



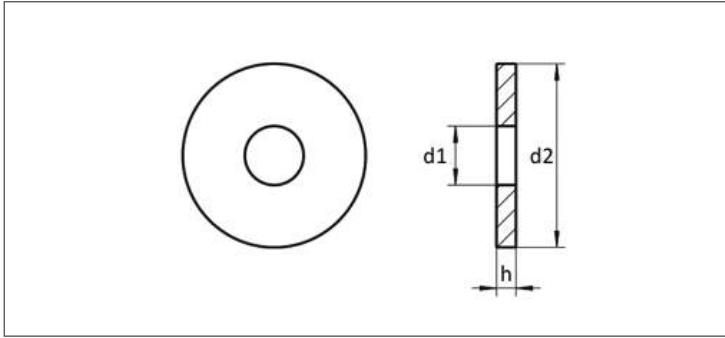
| ISO                                                                                                              | UNI      | DIN         |
|------------------------------------------------------------------------------------------------------------------|----------|-------------|
| <b>7094</b>                                                                                                      | <b>-</b> | <b>440V</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |          | <b>-</b>    |

[illegible]

## R RONDELA DIN 440 R

## DIN 440 R WASHERS FOR USE IN TIMBER CONSTRUCTIONS

DIN 440 SCHEIBEN FÜR HOLZKONSTRUKTIONEN FORM R



| ISO                                                                                                              | UNI      | DIN         |
|------------------------------------------------------------------------------------------------------------------|----------|-------------|
| <b>7094</b>                                                                                                      | <b>-</b> | <b>440R</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |          | <b>-</b>    |

[illegible]

Değerler milimetre olarak verilmiştir.

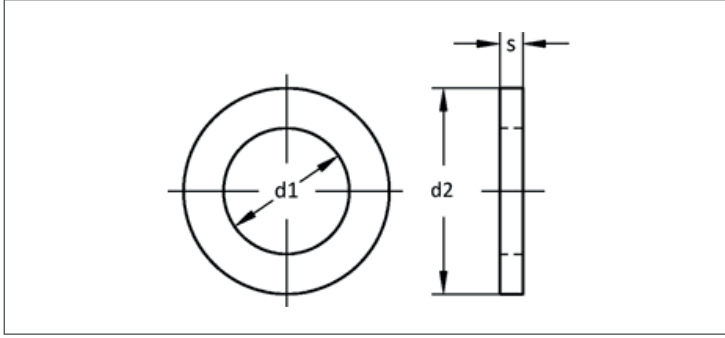
Values are given in millimeters.

Werte sind in millimetern angegeben.

# DÜZ RONDELA DIN 1440

FLAT WASHER

UNTERLEGSCHIEBE



| ISO                                                                                                              | UNI | DIN  |
|------------------------------------------------------------------------------------------------------------------|-----|------|
| 8738                                                                                                             | -   | 1440 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -    |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d    | d1 min | d2 max | s     | gr     |
|------|--------|--------|-------|--------|
| M3   | 3      | 6      | 0,80  | 0,13   |
| M4   | 4      | 8      | 0,80  | 0,23   |
| M5   | 5      | 10     | 0,80  | 0,36   |
| M6   | 6      | 12     | 1,60  | 1,05   |
| M7   | 7      | 14     | 1,60  | 1,42   |
| M8   | 8      | 16     | 2,00  | 2,22   |
| M10  | 10     | 20     | 2,50  | 4,56   |
| M12  | 12     | 25     | 3,00  | 8,36   |
| M13  | 13     | 25     | 3,00  | 8,99   |
| M14  | 14     | 28     | 3,00  | 10,80  |
| M16  | 16     | 28     | 3,00  | 11,68  |
| M18  | 18     | 30     | 4,00  | 13,80  |
| M20  | 20     | 32     | 4,00  | 15,00  |
| M22  | 22     | 34     | 4,00  | 16,20  |
| M23  | 23     | 36     | 4,00  | 18,50  |
| M24  | 24     | 38     | 4,00  | 21,40  |
| M25  | 25     | 40     | 4,00  | 23,60  |
| M26  | 26     | 40     | 5,00  | 28,50  |
| M27  | 27     | 40     | 5,00  | 26,50  |
| M28  | 28     | 42     | 5,00  | 29,70  |
| M30  | 30     | 45     | 5,00  | 34,20  |
| M32  | 32     | 50     | 5,00  | 44,80  |
| M33  | 33     | 50     | 5,00  | 43,30  |
| M35  | 35     | 52     | 6,00  | 52,80  |
| M36  | 36     | 52     | 6,00  | 59,50  |
| M40  | 40     | 58     | 6,00  | 63,70  |
| M45  | 45     | 62     | 7,00  | 76,80  |
| M50  | 50     | 68     | 8,00  | 101,00 |
| M55  | 55     | 75     | 9,00  | 141,00 |
| M60  | 60     | 80     | 9,00  | 151,00 |
| M65  | 65     | 90     | 9,00  | 211,00 |
| M70  | 70     | 95     | 10,00 | 250,00 |
| M75  | 75     | 100    | 10,00 | 265,00 |
| M80  | 80     | 110    | 12,00 | 313,00 |
| M85  | 85     | 110    | 12,00 | 371,00 |
| M90  | 90     | 115    | 12,00 | 370,00 |
| M95  | 95     | 120    | 12,00 | 387,00 |
| M100 | 100    | 125    | 14,00 | 472,00 |
|      |        |        |       |        |
|      |        |        |       |        |
|      |        |        |       |        |

Değerler milimetre olarak verilmiştir.

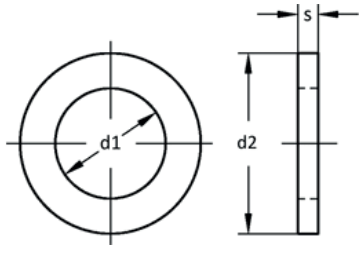
Values are given in millimeters.

Werte sind in millimetern angegeben.

# DÜZ RONDELA DIN 1441

FLAT WASHER

UNTERLEGSCHIEBE



ISO

UNI

DIN

8738

-

1441

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

-

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d    | d1 min | d2 max | s     | gr     |
|------|--------|--------|-------|--------|
| M5   | 5,50   | 10,00  | 0,80  | 0,34   |
| M6   | 7,00   | 12,00  | 1,60  | 0,94   |
| M7   | 8,00   | 14,00  | 1,60  | 1,30   |
| M8   | 9,00   | 16,00  | 2,00  | 2,16   |
| M10  | 11,00  | 20,00  | 2,50  | 4,30   |
| M12  | 13,00  | 25,00  | 3,00  | 8,43   |
| M13  | 14,00  | 25,00  | 3,00  | 7,94   |
| M14  | 15,00  | 28,00  | 3,00  | 10,30  |
| M16  | 17,00  | 28,00  | 3,00  | 9,16   |
| M18  | 19,00  | 30,00  | 4,00  | 13,30  |
| M20  | 21,00  | 32,00  | 4,00  | 14,40  |
| M22  | 23,00  | 34,00  | 4,00  | 15,50  |
| M23  | 24,00  | 36,00  | 4,00  | 17,80  |
| M24  | 25,00  | 38,00  | 4,00  | 20,00  |
| M25  | 26,00  | 40,00  | 4,00  | 22,80  |
| M26  | 27,00  | 40,00  | 5,00  | 26,90  |
| M27  | 28,00  | 40,00  | 5,00  | 25,00  |
| M28  | 29,00  | 42,00  | 5,00  | 28,50  |
| M30  | 31,00  | 45,00  | 5,00  | 32,80  |
| M32  | 34,00  | 50,00  | 5,00  | 43,50  |
| M33  | 34,00  | 50,00  | 5,00  | 43,50  |
| M35  | 37,00  | 52,00  | 6,00  | 49,40  |
| M36  | 37,00  | 52,00  | 6,00  | 49,40  |
| M40  | 41,00  | 58,00  | 6,00  | 59,20  |
| M45  | 46,00  | 62,00  | 7,00  | 70,60  |
| M50  | 51,00  | 68,00  | 8,00  | 94,70  |
| M55  | 56,00  | 75,00  | 9,00  | 138,00 |
| M60  | 62,00  | 80,00  | 9,00  | 142,00 |
| M65  | 68,00  | 90,00  | 9,00  | 193,00 |
| M70  | 72,00  | 95,00  | 10,00 | 237,00 |
| M75  | 78,00  | 100,00 | 10,00 | 241,00 |
| M80  | 82,00  | 110,00 | 12,00 | 328,00 |
| M85  | 86,00  | 110,00 | 12,00 | 348,00 |
| M90  | 92,00  | 115,00 | 12,00 | 352,00 |
| M95  | 98,00  | 120,00 | 12,00 | 355,00 |
| M100 | 102,00 | 125,00 | 14,00 | 451,00 |
|      |        |        |       |        |
|      |        |        |       |        |
|      |        |        |       |        |
|      |        |        |       |        |
|      |        |        |       |        |

Değerler milimetre olarak verilmiştir.

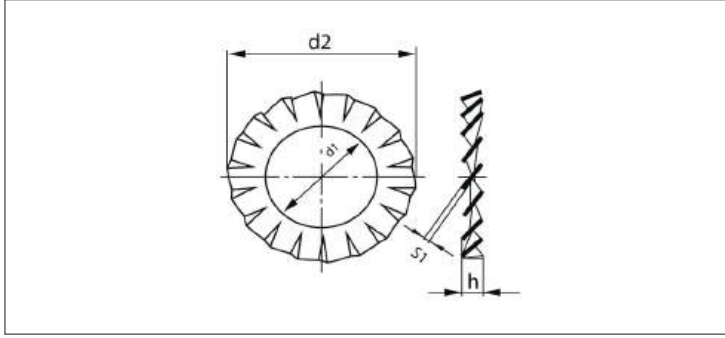
Values are given in millimeters.

Werte sind in millimetern angegeben.

# TIRTIŁ RRONDELA DIN 6798 A/J

SERRATED SPRING WASHERS

GEZACKTE FEDERSCHEIBEN



| ISO                                                                                                              | UNI  | DIN          |
|------------------------------------------------------------------------------------------------------------------|------|--------------|
| -                                                                                                                | 8842 | 6798 A/J     |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | UNI EN 10025 |

TEKNİK BİLGİLER

TECHNICAL INFORMATION

TECHNISCHE INFORMATION

## FORM A

| d    | d1 min | d1 max | d2 min | d2 max | s    | Minmum number of teeth A | gr    |
|------|--------|--------|--------|--------|------|--------------------------|-------|
| M2   | 2,20   | 2,34   | 4,20   | 4,50   | 0,30 | 9                        | 0,03  |
| M2,5 | 2,70   | 2,84   | 5,20   | 5,50   | 0,40 | 9                        | 0,05  |
| M3   | 3,20   | 3,38   | 5,70   | 6,00   | 0,40 | 9                        | 0,06  |
| M4   | 4,30   | 4,48   | 7,64   | 8,00   | 0,50 | 11                       | 0,14  |
| M5   | 5,30   | 5,48   | 9,64   | 10,00  | 0,60 | 11                       | 0,28  |
| M6   | 6,40   | 6,62   | 10,57  | 11,00  | 0,70 | 12                       | 0,36  |
| M7   | 7,40   | 7,62   | 12,07  | 12,50  | 0,80 | 14                       | 0,50  |
| M8   | 8,40   | 8,62   | 14,57  | 15,00  | 0,80 | 14                       | 0,80  |
| M10  | 10,50  | 10,77  | 17,57  | 18,00  | 0,90 | 16                       | 1,25  |
| M12  | 13,00  | 13,27  | 19,98  | 20,50  | 1,00 | 17                       | 1,70  |
| M14  | 15,00  | 15,27  | 23,48  | 24,00  | 1,00 | 18                       | 2,40  |
| M16  | 17,00  | 17,27  | 25,48  | 26,00  | 1,20 | 18                       | 3,00  |
| M18  | 19,00  | 19,33  | 29,48  | 30,00  | 1,40 | 18                       | 5,00  |
| M20  | 21,00  | 21,33  | 32,36  | 33,00  | 1,40 | 20                       | 6,00  |
| M22  | 23,00  | 23,33  | 35,38  | 36,00  | 1,50 | 20                       | 7,50  |
| M24  | 25,00  | 25,33  | 37,38  | 38,00  | 1,50 | 20                       | 8,00  |
| M27  | 28,00  | 28,33  | 43,38  | 44,00  | 1,60 | 22                       | 12,00 |
| M30  | 31,00  | 31,39  | 47,38  | 48,00  | 1,60 | 22                       | 14,00 |

## FORM J

| d    | d1 min | d1 max | d2 min | d2    | s    | Minmum number of teeth A | gr    |
|------|--------|--------|--------|-------|------|--------------------------|-------|
| M2   | 2,20   | 2,34   | 4,20   | 4,50  | 0,30 | 7                        | 0,03  |
| M2,5 | 2,70   | 2,84   | 5,20   | 5,50  | 0,40 | 7                        | 0,05  |
| M3   | 3,20   | 3,38   | 5,70   | 6,00  | 0,40 | 7                        | 0,06  |
| M4   | 4,30   | 4,48   | 7,64   | 8,00  | 0,50 | 8                        | 0,14  |
| M5   | 5,30   | 5,48   | 9,64   | 10,00 | 0,60 | 8                        | 0,28  |
| M6   | 6,40   | 6,62   | 10,57  | 11,00 | 0,70 | 9                        | 0,36  |
| M7   | 7,40   | 7,62   | 12,07  | 12,50 | 0,80 | 10                       | 0,50  |
| M8   | 8,40   | 8,62   | 14,57  | 15,00 | 0,80 | 10                       | 0,80  |
| M10  | 10,50  | 10,77  | 17,57  | 18,00 | 0,90 | 12                       | 1,25  |
| M12  | 13,00  | 13,27  | 19,98  | 20,50 | 1,00 | 12                       | 1,70  |
| M14  | 15,00  | 15,27  | 23,48  | 24,00 | 1,00 | 14                       | 2,40  |
| M16  | 17,00  | 17,27  | 25,48  | 26,00 | 1,20 | 14                       | 3,00  |
| M18  | 19,00  | 19,33  | 29,48  | 30,00 | 1,40 | 14                       | 5,00  |
| M20  | 21,00  | 21,33  | 32,36  | 33,00 | 1,40 | 16                       | 6,00  |
| M22  | 23,00  | 23,33  | 35,38  | 36,00 | 1,50 | 16                       | 7,50  |
| M24  | 25,00  | 25,33  | 37,38  | 38,00 | 1,50 | 16                       | 8,00  |
| M27  | 28,00  | 28,33  | 43,38  | 44,00 | 1,60 | 22                       | 12,00 |
| M30  | 31,00  | 31,39  | 47,38  | 48,00 | 1,60 | 22                       | 14,00 |

Değerler milimetre olarak verilmiştir.

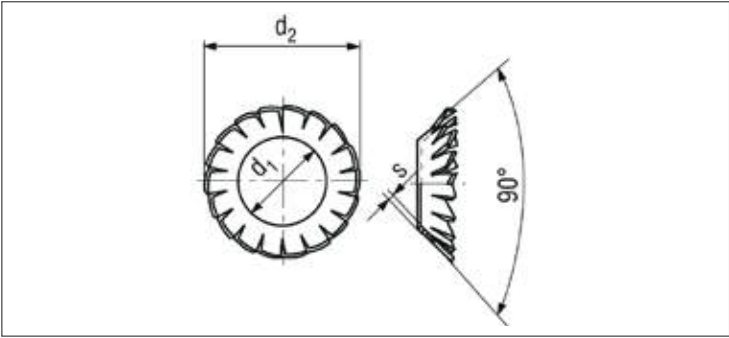
Values are given in millimeters.

Werte sind in millimetern angegeben.

## TIRTIL RONDELA DIN 6798 V

CONICAL SERRATED SPRING WASHERS      KONISCH GEZAHNTE FEDERSCHEIBEN

CONICAL SERRATED SPRING WASHERS      KONISCH GEZAHNTE FEDERSCHEIBEN



| ISO                                                                                                              | UNI | DIN                       |
|------------------------------------------------------------------------------------------------------------------|-----|---------------------------|
| -                                                                                                                | -   | <b>6798V</b>              |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>UNI EN<br/>10132-4</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

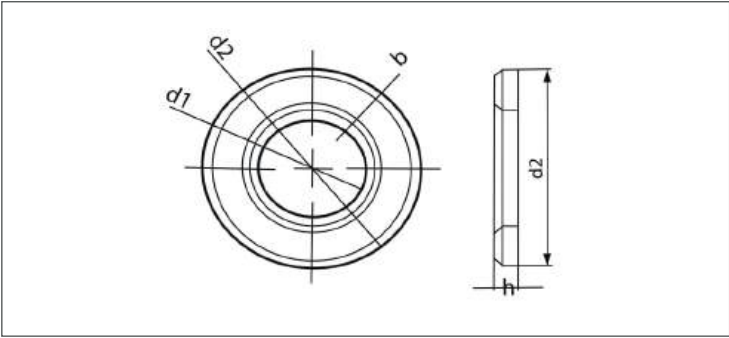
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## ÇELİK KONSTRÜKSİYON RONDELA DIN 6916

STRUCTURAL PLAIN WASHERS      STRUKTURELLE UNTERLEGSCHÜBEN

STRUCTURAL PLAIN WASHERS      STRUKTURELLE UNTERLEGSCHÜBEN



|                                                                                                                  |             |                                                          |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                                               |
| <b>-</b>                                                                                                         | <b>5714</b> | <b>6916</b>                                              |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>UNI EN</b><br><b>10083 1-3</b><br><b>(DIN 17 200)</b> |

[illegible]

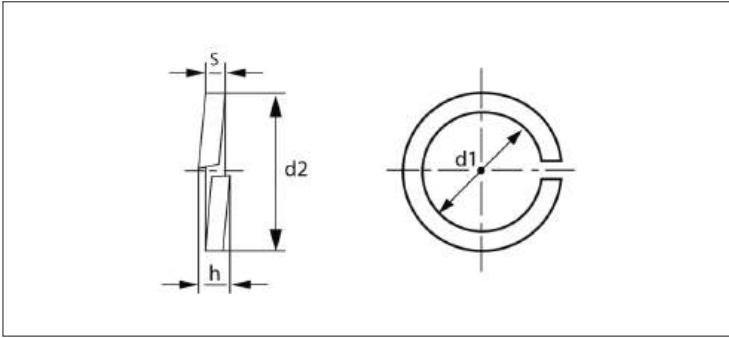
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## YAYLI RONDELA DIN 7980

SQUARE SECTION HELICAL SPRING WASHERS    SCHRAUBENFEDERSCHEIBEN MIT QUADRATISCHEM ABSCHNITT



|                                                                                                                  |            |                         |
|------------------------------------------------------------------------------------------------------------------|------------|-------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>              |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>7980</b>             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>UNI EN<br/>10270</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

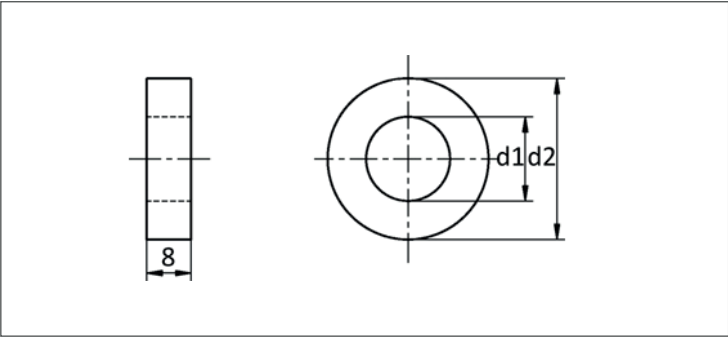
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## ÇELİK KONSTRÜKSİYON RONDELA DIN 7989

SPRING LOCK WASHER FEDERRING

SPRING LOCK WASHER FEDERRING



|                                                                                                                  |            |             |
|------------------------------------------------------------------------------------------------------------------|------------|-------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>  |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>7989</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>-</b>    |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

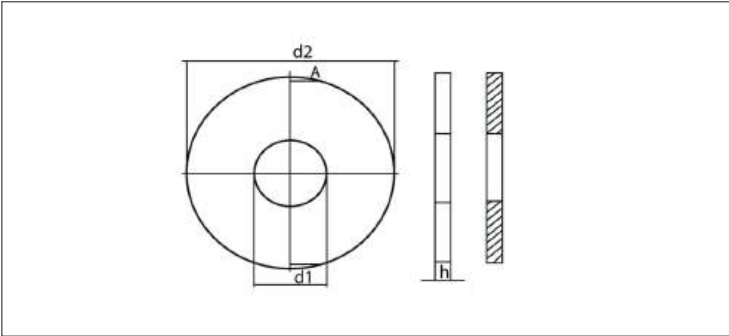
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## GENİŞ RONDELA DIN 9021

WIDE FLAT WASHERS BREITE UNTERLEGSCHLEIBEN

WIDE FLAT WASHERS BREITE UNTERLEGSCHLEIBEN



|                                                                                                                  |             |                         |
|------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>              |
| <b>7093</b>                                                                                                      | <b>6593</b> | <b>9021</b>             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>UNI EN<br/>10025</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

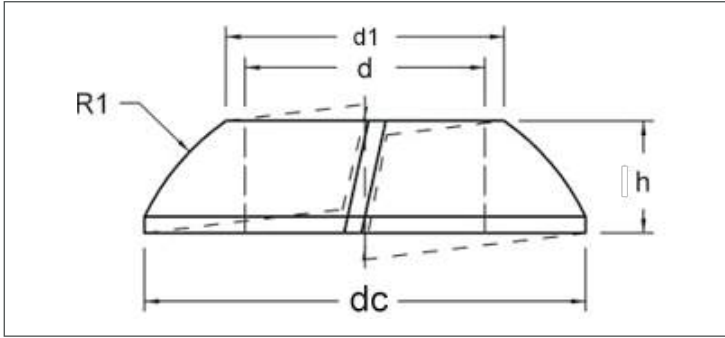
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# BİJON YÜKSÜK RONDELA DIN 74361 C

## TAPER FLANGE NUTS LOCK WASHERS TYPE C

## KONISCHE FLANSMUTTERN SICHERUNGSSCHEIBEN C



| ISO                                                                                                              | UNI | DIN                |
|------------------------------------------------------------------------------------------------------------------|-----|--------------------|
| -                                                                                                                | -   | <b>74361<br/>C</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -                  |

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

The background of the entire page is a complex, repeating geometric pattern of various shades of blue. The pattern consists of overlapping squares and rectangles of different sizes, creating a sense of depth and movement. The colors range from a deep navy blue to a lighter, medium blue.

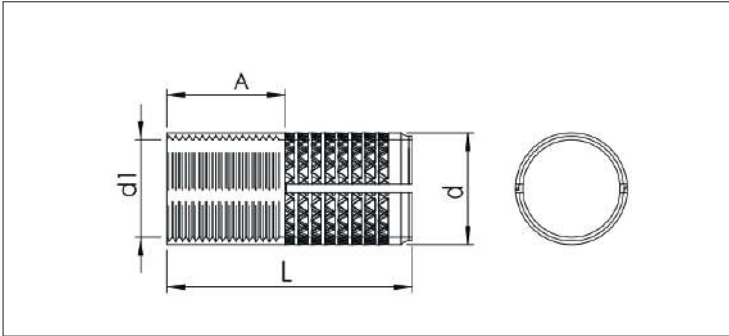
# **DÜBEL GRUBU**

## ANCHORS

## ÇAKMA DÜBEL

DROP IN ANCHOR EINSCHLAGANKER

DROP IN ANCHOR EINSCHLAGANKER

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

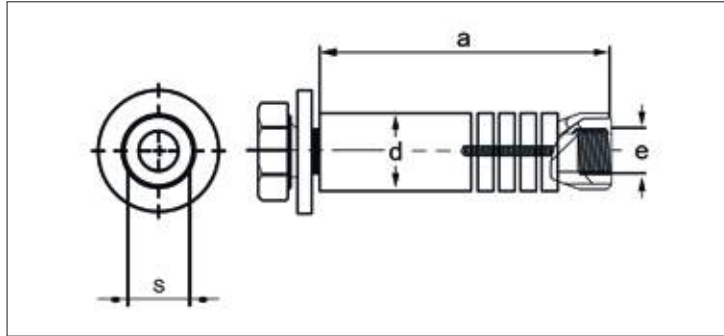
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# ÇEKME DÜBEL

## SLEEVE IN ANCHOR T TYPE

## HÜLSENANKER TYP T

[illegible]

Değerler milimetre olarak verilmiştir.

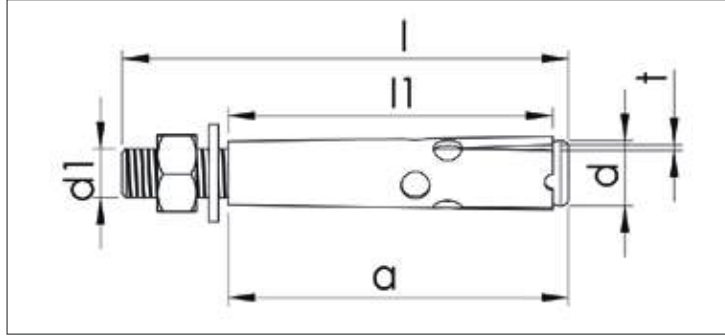
Values are given in millimeters.

Werte sind in millimetern angegeben.

## GÖMLEKLİ DÜBEL

## SLEEVE IN ANCHOR F TYPE

## HÜLSENANKER TYP F

[illegible]

Değerler milimetre olarak verilmiştir.

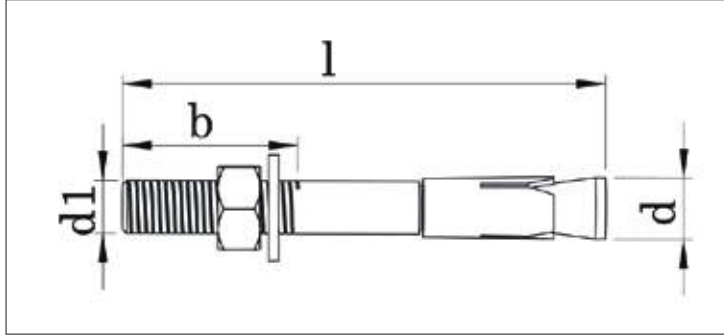
Values are given in millimeters.

Werte sind in millimetern angegeben.

# KLİPSLİ DÜBEL

## WEDGE IN ANCHOR

BOLZENANKER

[illegible]

Değerler milimetre olarak verilmiştir.

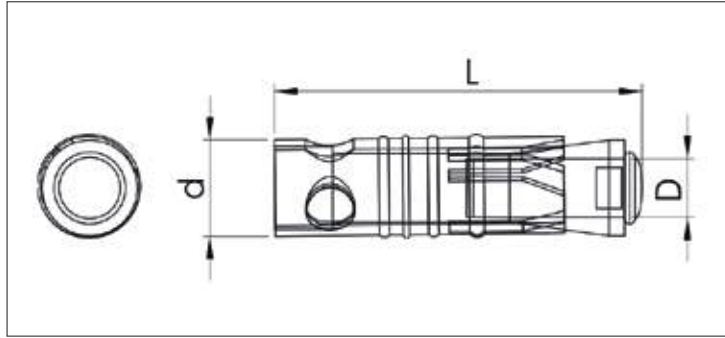
Values are given in millimeters.

Werte sind in millimetern angegeben.

## S TIPI DÜBEL

## S TYPE ANCHOR

## STYP ANKER

[illegible]

Değerler milimetre olarak verilmiştir.

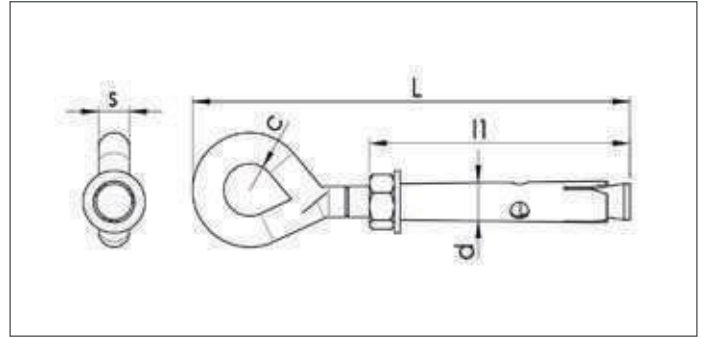
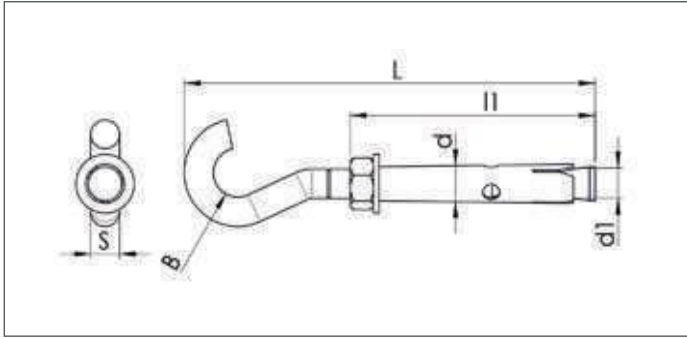
Values are given in millimeters.

Werte sind in millimetern angegeben.

# KANCALI DÜBELLER

## HOOK TYPE AND EYE BOLT TYPE ANCHOR

## HÜLSENANKER MIT-GESCHLOSSENEM HAKEN



## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# PLASTİK DÜBEL

## PLASTIC DOWEL

## KUNSTSTOFF DÜBEL

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## PLASTİK DÜBEL SERİSİ

## PLASTIC WALL PLUG SERIES

## KUNSTSTOFF -DÜBEL-SERIE



## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

Değerler milimetre olarak verilmiştir.

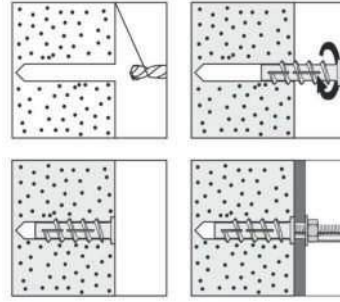
Values are given in millimeters.

Werte sind in millimetern angegeben.

# KLİPSLİ DÜBEL

WEDGE IN ANCHOR

BOLZENANKER



## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| DÜBEL KALINLIĞI<br>ANCHOR THICKNESS | UZUNLUK<br>LENGHT | DÜBEL DELİK ÇAPI<br>DRILL ANCHOR HOLE DIAMETER | ANAHTAR AĞZI ÖLÇÜSÜ<br>ANCHOR PINS IN SIZE FLAT |
|-------------------------------------|-------------------|------------------------------------------------|-------------------------------------------------|
| d1                                  | l                 | d                                              | t                                               |
| M8                                  | 75,00             | 8,00                                           | 13,00                                           |
| M8                                  | 90,00             | 8,00                                           | 13,00                                           |
| M8                                  | 110,00            | 8,00                                           | 13,00                                           |
| M8                                  | 130,00            | 8,00                                           | 13,00                                           |
| M8                                  | 150,00            | 8,00                                           | 13,00                                           |
| M8                                  | 180,00            | 8,00                                           | 13,00                                           |
| M10                                 | 90,00             | 10,00                                          | 17,00                                           |
| M10                                 | 120,00            | 10,00                                          | 17,00                                           |
| M10                                 | 150,00            | 10,00                                          | 17,00                                           |
| M10                                 | 180,00            | 10,00                                          | 17,00                                           |
| M10                                 | 200,00            | 10,00                                          | 17,00                                           |
| M12                                 | 90,00             | 12,00                                          | 19,00                                           |
| M12                                 | 110,00            | 12,00                                          | 19,00                                           |
| M12                                 | 140,00            | 12,00                                          | 19,00                                           |
| M12                                 | 160,00            | 12,00                                          | 19,00                                           |
| M12                                 | 180,00            | 12,00                                          | 19,00                                           |
| M12                                 | 200,00            | 12,00                                          | 19,00                                           |
| M12                                 | 220,00            | 12,00                                          | 19,00                                           |
| M12                                 | 250,00            | 12,00                                          | 19,00                                           |
| M12                                 | 300,00            | 12,00                                          | 19,00                                           |
| M14                                 | 110,00            | 14,00                                          | 22,00                                           |
| M14                                 | 150,00            | 14,00                                          | 22,00                                           |
| M16                                 | 110,00            | 16,00                                          | 24,00                                           |
| M16                                 | 125,00            | 16,00                                          | 24,00                                           |
| M16                                 | 145,00            | 16,00                                          | 24,00                                           |
| M16                                 | 175,00            | 16,00                                          | 24,00                                           |
| M16                                 | 200,00            | 16,00                                          | 24,00                                           |
| M16                                 | 220,00            | 16,00                                          | 24,00                                           |
| M16                                 | 275,00            | 16,00                                          | 24,00                                           |
| M16                                 | 250,00            | 16,00                                          | 24,00                                           |
| M16                                 | 300,00            | 16,00                                          | 24,00                                           |
| M20                                 | 160,00            | 20,00                                          | 30,00                                           |
| M20                                 | 180,00            | 20,00                                          | 30,00                                           |
| M20                                 | 200,00            | 20,00                                          | 30,00                                           |
| M20                                 | 220,00            | 20,00                                          | 30,00                                           |
| M20                                 | 260,00            | 20,00                                          | 30,00                                           |
| M20                                 | 300,00            | 20,00                                          | 30,00                                           |
| M24                                 | 200,00            | 24,00                                          | 36,00                                           |
| M24                                 | 250,00            | 24,00                                          | 36,00                                           |
| M24                                 | 300,00            | 24,00                                          | 36,00                                           |
| M30                                 | 300,00            | 30,00                                          | 46,00                                           |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## KLİPSLİ DÜBEL CE-ETA 7

## WEDGE IN ANCHOR

BOLZENANKER

[illegible]

Değerler milimetre olarak verilmiştir.

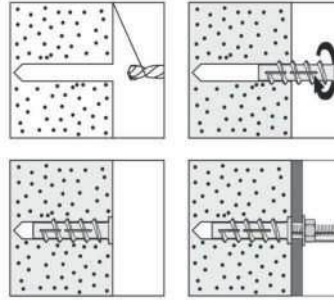
Values are given in millimeters.

Werte sind in millimetern angegeben.

# KLİPSLİ DÜBEL

## WEDGE IN ANCHOR

BOLZENANKER



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# KLİPSLİ DÜBEL PASLANMAZ KLİPS

## WEDGE IN ANCHOR STAINLESS CLIP

## BOLZENANKER ROSTFREIER CLIP



## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## KLİPSLİ DÜBEL A4 PASLANMAZ

## WEDGE IN ANCHOR STAINLESS

## BOLZENANKER ROSTFREIER

[illegible]

Değerler milimetre olarak verilmiştir.

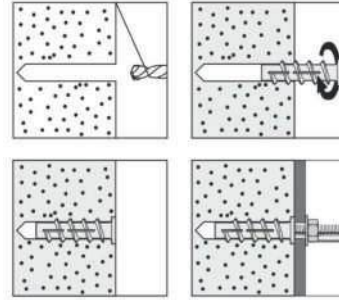
Values are given in millimeters.

Werte sind in millimetern angegeben.

## PASLANMAZ KLİPSLİ DÜBEL A2

## WEDGE IN ANCHOR STAINLESS CLIP

## BOLZENANKER ROSTFREIER CLIP

[illegible]

Değerler milimetre olarak verilmiştir.

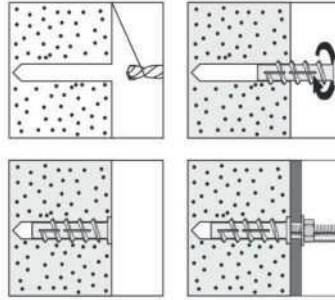
Values are given in millimeters.

Werte sind in millimetern angegeben.

# BETON VİDASI

## CONCRETE SCREW ANCHOR

## BETON-DIREKTBEFESTIGUNGSANKER

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## AĞIR YÜK DÜBELİ

## HEAVY DUTY ANCHOR

## HOCHLEISTUNGSANKER FÜR SCHWERE LASTEN IN BETON



SOMUN KAFA / PROJECTING BOLT / GEWINTESTUCK

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## AĞIR YÜK DÜBELİ

## HEAVY DUTY ANCHOR

## HOCHLEISTUNGSANKER FÜR SCHWERE LASTEN IN BETON



HAVA BAŞ / COUNTERSUNK HEAD / SENKKOPF

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## AĞIR YÜK DÜBELİ

## HEAVY DUTY ANCHOR

## HOCHLEISTUNGSANKER FÜR SCHWERE LASTEN IN BETON



ALTİKÖŞE KAFA / HEGZAGONAL HEAD / SECHSKANTKOPF

[illegible]

Değerler milimetre olarak verilmiştir.

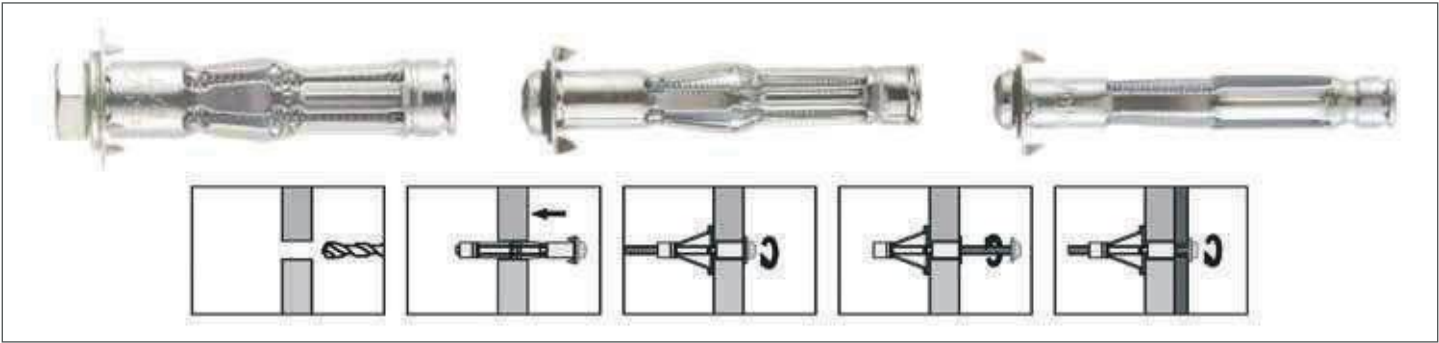
Values are given in millimeters.

Werte sind in millimetern angegeben.

## ALÇIPAN DÜBELİ

HOLLOW WALL ANCHOR HOHLRAUM-METALLDUBEL

HOLLOW WALL ANCHOR HOHLRAUM-METALLDUBEL



TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

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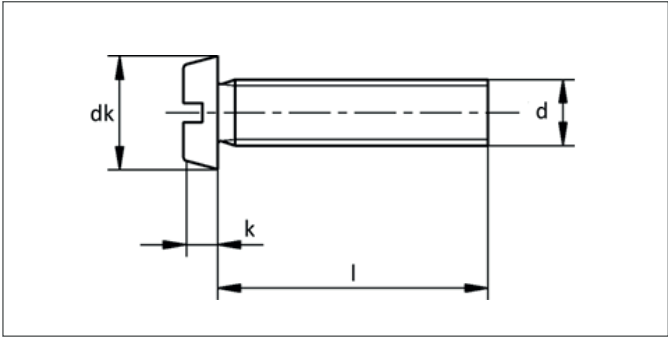
# **PASLANMAZ GRUBU**

STAINLESS STEELS

## INOX SİLİNDİR BAŞ METRİK VİDA

SLOTTED PAN HEAD SCREWS

SLOTTED PAN HEAD SCREWS



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>1207</b>                                                                                                      | <b>6107</b> | <b>84<br/>A2/A4</b>                    |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-1</b><br><b>ISO 4759-1</b> |

[illegible][illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

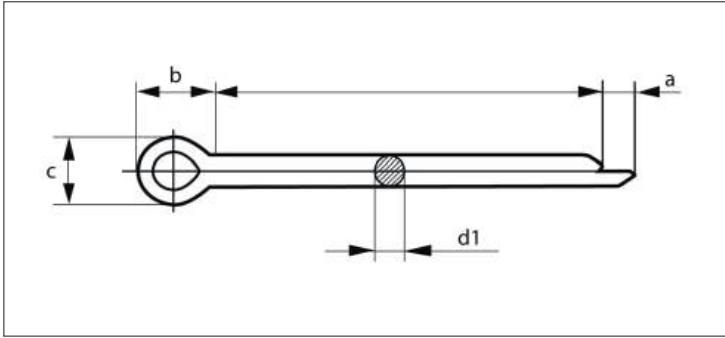
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# INOX GUPİLYA

## SPLINT PINS

SPLINT



|                                                                                                                  |             |                     |
|------------------------------------------------------------------------------------------------------------------|-------------|---------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>          |
| <b>1234</b>                                                                                                      | <b>1336</b> | <b>94<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>   |

[illegible][illegible]

Değerler milimetre olarak verilmiştir.

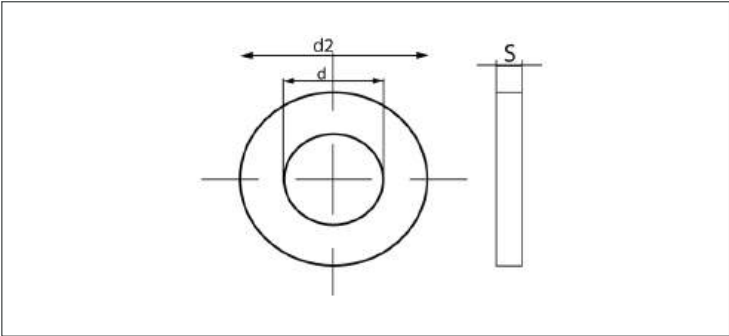
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX DÜZ RONDELA

FLAT WASHERS FLACHE UNTERLEGSCHIEBE

FLAT WASHERS FLACHE UNTERLEGSCHIBE



**ISO**

**7089**  
**7091\***

**UNI**

6592

**DIN**

**125 A**  
**A2/A4**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI 6602**  
**ISO 4759-3**

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

TEKNİK BİLGİLER      TECHNICAL INFORMATION      TECHNISCHE INFORMATION

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

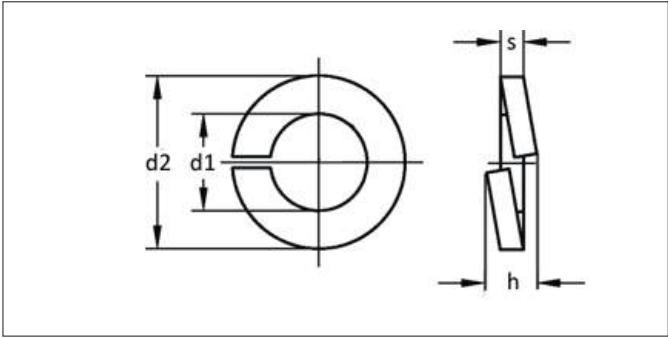
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX YAYLI RONDELA

|                                |                     |
|--------------------------------|---------------------|
| HELICAL SPRING WASHER (GROWER) | EDELSTAHL FEDERRING |
|--------------------------------|---------------------|

|                                |                     |
|--------------------------------|---------------------|
| HELICAL SPRING WASHER (GROWER) | EDELSTAHL FEDERRING |
|--------------------------------|---------------------|



|                                                                                                                  |             |                        |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>             |
| <b>-</b>                                                                                                         | <b>1751</b> | <b>127 B<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>      |

|                                                                                                                  |             |                        |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>             |
| <b>-</b>                                                                                                         | <b>1751</b> | <b>127 B<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>      |

|                                                                                                                  |             |                        |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>             |
| <b>-</b>                                                                                                         | <b>1751</b> | <b>127 B<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>      |

|                                                                                                                  |             |                        |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>             |
| <b>-</b>                                                                                                         | <b>1751</b> | <b>127 B<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>      |

|                                                                                                                  |             |                        |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>             |
| <b>-</b>                                                                                                         | <b>1751</b> | <b>127 B<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>      |

|                                                                                                                  |             |                        |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>             |
| <b>-</b>                                                                                                         | <b>1751</b> | <b>127 B<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>      |

|                                                                                                                  |             |                        |
|------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>             |
| <b>-</b>                                                                                                         | <b>1751</b> | <b>127 B<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>      |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

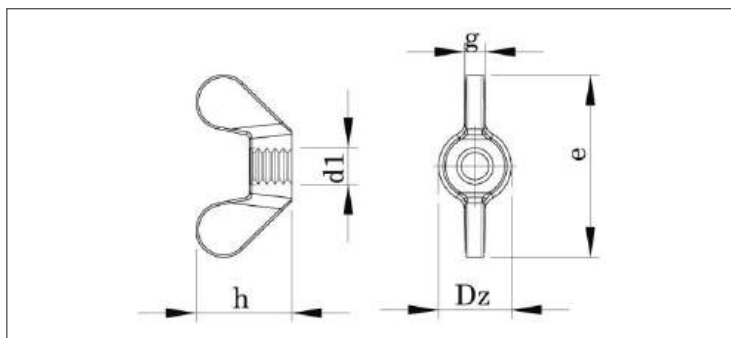
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX KELEBEK SOMUN

WING NUT

## FLÜGELMITTERN



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>-</b>                                                                                                         | <b>5488</b> | <b>315<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.

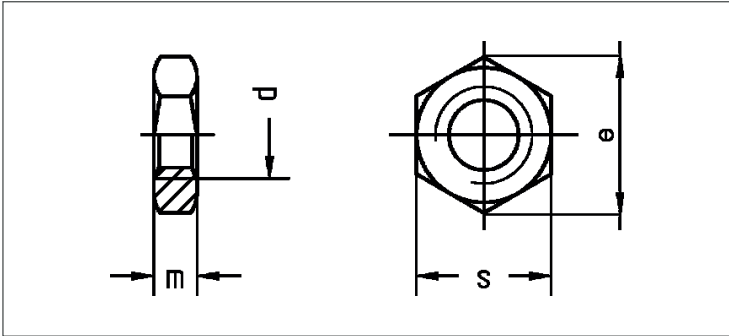
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX ALTİKÖŞE KONTRA SOMUN

HEXAGON-THIN NUTS SECHSKANTMUTTER, NIEDRIGE FORM

HEXAGON-THIN NUTS SECHSKANTMUTTER, NIEDRIGE FORM



| ISO                                                                                                              | UNI | DIN                                                         |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|
| -                                                                                                                | -   | 439                                                         |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

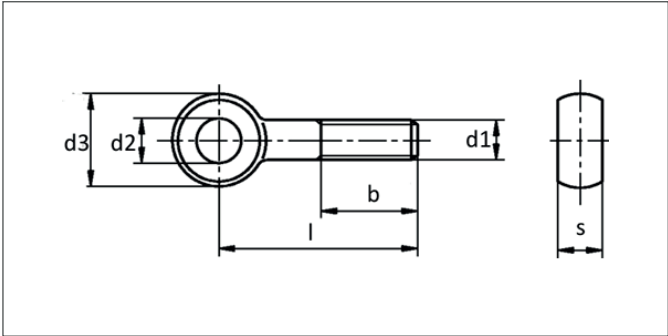
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX GÖZLÜ CIVATA

EYEBOLT AUGENSCHRAUBEN TYP B

EYEBOLT AUGENSCHRAUBEN TYP B



| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 6058 | 444 B<br>A2/A4           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 6058 | 444 B<br>A2/A4           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 6058 | 444 B<br>A2/A4           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 6058 | 444 B<br>A2/A4           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 6058 | 444 B<br>A2/A4           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 6058 | 444 B<br>A2/A4           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 6058 | 444 B<br>A2/A4           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

| TEKNIK BİLGİLER |              |              | TECHNICAL INFORMATIONS |       |       | TECHNISCHE INFORMATION |       |       |
|-----------------|--------------|--------------|------------------------|-------|-------|------------------------|-------|-------|
| d1              |              |              | M6                     | M8    | M10   | M12                    | M16   | M20   |
| p               |              |              | 1                      | 1,25  | 1,5   | 1,75                   | 2     | 2,5   |
| b +2 P          | 1)           |              | 18                     | 22    | 26    | 30                     | 38    | 46    |
|                 | 2)           |              |                        | 28    | 32    | 36                     | 44    | 52    |
|                 | 3)           |              |                        |       |       | 49                     | 57    | 65    |
| d2              | H9 5)        |              | 6                      | 8     | 10    | 12                     | 16    | 18    |
| d3              | max          |              | 14                     | 18    | 20    | 25                     | 32    | 40    |
|                 | min          | Type A       | 12,9                   | 16,9  | 18,7  | 23,7                   | 30,4  | 38,4  |
|                 |              | Type C and B | 13,57                  | 17,57 | 19,48 | 24,48                  | 31,38 | 39,38 |
| r               | ≈            |              | 4                      | 4     | 4     | 6                      | 6     | 6     |
| s               | Type A       | max          | 9                      | 11    | 14    | 17                     | 19    | 24    |
|                 |              | min          | 8,52                   | 10,3  | 13,3  | 16,3                   | 18,16 | 23,16 |
|                 | Type B and C | max          | 7                      | 9     | 12    | 14                     | 17    | 22    |
|                 |              | min          | 6,85                   | 8,85  | 11,82 | 13,82                  | 16,82 | 21,79 |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

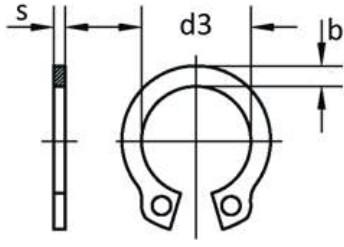
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# INOX MİL EMNİYET SEGMANI TİP A

RETAINING RINGS FOR SHAFTS TYPE A

SICHERUNGSRING FÜR WELLEN TYP A



**ISO**

**UNI**

**DIN**

**-**

**7435**

**471 A2**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**ISO 3506-3**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d  | d3   | s                | a max | b ≈  | d5   | gr    |
|----|------|------------------|-------|------|------|-------|
| 4  | 3,7  | + 0,04<br>- 0,15 | 0,4   | 0,9  | 1,0  | 0,033 |
| 5  | 4,7  | 0,6              | 2,2   | 1,1  | 1,0  | 0,080 |
| 6  | 5,6  | 0,7              | 2,5   | 1,3  | 1,2  | 0,126 |
| 7  | 6,5  | 0,8              | 2,7   | 1,4  | 1,2  | 0,192 |
| 8  | 7,4  | 0,8              | 3,1   | 1,5  | 1,2  | 0,225 |
| 9  | 8,4  | 1                | 3,2   | 2    | 1    | 0,379 |
| 10 | 9,3  | 1                | 3     | 2    | 1    | 0,420 |
| 11 | 10,2 | 1                | 3     | 2    | 2    | 0,454 |
| 12 | 11,0 | 1                | 3     | 2    | 2    | 0,490 |
| 13 | 11,9 | 1                | 3     | 2    | 2    | 0,584 |
| 14 | 12,9 | 1                | 4     | 2    | 2    | 0,652 |
| 15 | 13,8 | 1                | 4     | 2    | 2    | 0,732 |
| 16 | 14,7 | 1                | 4     | 2    | 2    | 0,810 |
| 17 | 15,7 | 1                | 4     | 2    | 2    | 0,892 |
| 18 | 16,5 | 1,2              | 3,9   | 2,4  | 1,7  | 1,198 |
| 19 | 17,5 | 1,2              | 3,9   | 2,5  | 2,0  | 1,253 |
| 20 | 18,5 | 1,2              | 4,0   | 2,6  | 2,0  | 1,320 |
| 21 | 19,5 | 1,2              | 4,1   | 2,7  | 2,0  | 1,480 |
| 22 | 20,5 | 1,2              | 4,2   | 2,8  | 2,0  | 1,621 |
| 23 | 21,5 | 1,2              | 4,3   | 2,9  | 2,0  | 1,745 |
| 24 | 22,2 | 1,2              | 4,4   | 3,0  | 2,0  | 1,801 |
| 25 | 23,2 | 1,2              | 4,4   | 3,0  | 2,0  | 1,928 |
| 26 | 24,2 | 1,2              | 4,5   | 3,1  | 2,0  | 2,019 |
| 27 | 24,9 | 1,2              | 4,6   | 3,1  | 2,0  | 2,170 |
| 28 | 25,9 | 1,5              | 4,7   | 3,2  | 2,0  | 2,870 |
| 29 | 26,9 | 1,5              | 4,8   | 3,4  | 2,0  | 3,100 |
| 30 | 27,9 | 1,5              | 5,0   | 3,5  | 2,0  | 3,294 |
| 31 | 28,6 | 1,5              | 5,0   | 3,5  | 2,5  | 3,301 |
| 32 | 29,6 | 1,5              | 5,2   | 3,6  | 2,5  | 3,887 |
| 33 | 30,5 | 1,5              | 5,2   | 3,7  | 2,5  | 3,639 |
| 34 | 31,5 | 1,5              | 5,4   | 3,8  | 2,5  | 4,221 |
| 35 | 32,5 | 1,5              | 5,6   | 3,9  | 2,5  | 4,365 |
| 36 | 33,2 | 1,75             | 5,60  | 4,00 | 2,50 | 4,719 |
| 37 | 34,2 | 1,75             | 5,70  | 4,10 | 2,50 | 5,260 |
| 38 | 35,2 | 1,75             | 5,80  | 4,20 | 2,50 | 6,203 |
| 39 | 36,0 | 1,75             | 5,90  | 4,30 | 2,50 | 6,668 |
| 40 | 36,5 | 1,75             | 6,00  | 4,40 | 2,50 | 6,234 |

| d   | d3   | s    | a max | b ≈  | d5   | gr     |
|-----|------|------|-------|------|------|--------|
| 41  | 37,5 | 1,75 | 6,2   | 4,5  | 2,5  | 6,440  |
| 42  | 38,5 | 1,75 | 6,5   | 4,5  | 2,5  | 6,884  |
| 43  | 39,5 | 1,75 | 6,5   | 4,5  | 2,5  | 6,884  |
| 44  | 40,5 | 1,75 | 6,6   | 4,6  | 2,5  | 7,958  |
| 45  | 41,5 | 1,75 | 6,7   | 4,7  | 2,5  | 7,573  |
| 46  | 42,5 | 1,75 | 7     | 5    | 3    | 7,650  |
| 47  | 43,5 | 1,75 | 7     | 5    | 3    | 7,840  |
| 48  | 44,5 | 1,75 | 7     | 5    | 3    | 8,160  |
| 50  | 45,8 | 2    | 7     | 5    | 3    | 10,706 |
| 52  | 47,8 | 2    | 7     | 5    | 3    | 11,328 |
| 54  | 49,8 | 2    | 7     | 5    | 3    | 12,512 |
| 55  | 50,8 | 2    | 7     | 5    | 3    | 12,413 |
| 56  | 51,8 | 2    | 7     | 6    | 3    | 11,684 |
| 57  | 52,8 | 2    | 7     | 6    | 3    | 13,464 |
| 58  | 53,8 | 2    | 7,3   | 5,6  | 2,5  | 13,119 |
| 60  | 55,8 | 2    | 7,4   | 5,8  | 2,5  | 13,866 |
| 62  | 57,8 | 2    | 7,5   | 6,0  | 2,5  | 14,266 |
| 63  | 58,8 | 2    | 7,6   | 6,2  | 3,0  | 14,540 |
| 65  | 60,8 | 2,5  | 7,8   | 6,3  | 3,0  | 21,225 |
| 67  | 62,5 | 2,5  | 7,9   | 6,4  | 3,0  | 20,520 |
| 68  | 63,5 | 2,5  | 8,0   | 6,5  | 3,0  | 22,125 |
| 70  | 65,5 | 2,5  | 8,1   | 6,6  | 3,0  | 23,349 |
| 72  | 67,5 | 2,5  | 8,2   | 6,8  | 3,0  | 23,727 |
| 75  | 70,5 | 2,5  | 8,4   | 7,0  | 3,0  | 24,549 |
| 77  | 72,5 | 2,5  | 8,5   | 7,2  | 3,0  | 25,976 |
| 78  | 73,5 | 2,5  | 8,6   | 7,3  | 3,0  | 26,366 |
| 80  | 74,5 | 2,5  | 8,6   | 7,4  | 3,0  | 27,517 |
| 82  | 76,5 | 2,5  | 8,7   | 7,6  | 3,0  | 27,993 |
| 85  | 79,5 | 3    | 8,7   | 7,8  | 3,5  | 38,109 |
| 87  | 81,5 | 3    | 8,8   | 7,9  | 3,5  | 39,904 |
| 88  | 82,5 | 3    | 8,8   | 8,0  | 3,5  | 38,088 |
| 90  | 84,5 | 3    | 8,8   | 8,2  | 3,5  | 41,504 |
| 92  | 86,5 | 3    | 9,00  | 8,40 | 3,50 | 42,548 |
| 95  | 89,5 | 3    | 9,40  | 8,60 | 3,50 | 44,660 |
| 97  | 91,5 | 3    | 9,40  | 8,80 | 3,50 | 47,924 |
| 98  | 92,5 | 3    | 9,40  | 8,80 | 3,50 | 47,924 |
| 100 | 94,5 | 3    | 9,60  | 9,00 | 3,50 | 47,035 |

Değerler milimetre olarak verilmiştir.

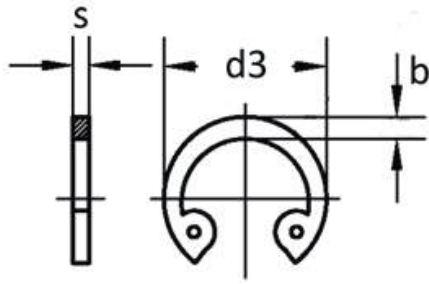
Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX DELİK EMNİYET SEGMANI TİP J

RETAINING RINGS FOR HOLES ( INTERNALS)

SICHERUNGSRING FÜR WELLEN TYP J



**ISO**

**UNI**

**DIN**

**-**

**7437**

**472 A2**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**ISO 3506-3**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d  | d3   | s    | a max | b ≈ | d5  | gr    |
|----|------|------|-------|-----|-----|-------|
| 8  | 8,7  | 0,8  | 2,4   | 1,1 | 1,0 | 0,122 |
| 9  | 9,8  | 0,8  | 2,5   | 1,3 | 1,0 | 0,147 |
| 10 | 10,8 | 1    | 3,2   | 1,4 | 1,2 | 0,267 |
| 11 | 11,8 | 1    | 3,3   | 1,5 | 1,2 | 0,300 |
| 12 | 13,0 | 1    | 3,4   | 1,7 | 1,5 | 0,318 |
| 13 | 14,1 | 1    | 3,6   | 1,8 | 1,5 | 0,372 |
| 14 | 15,1 | 1    | 3,7   | 1,9 | 1,7 | 0,417 |
| 15 | 16,2 | 1    | 3,7   | 2,0 | 1,7 | 0,478 |
| 16 | 17,3 | 1    | 3,8   | 2,0 | 1,7 | 0,510 |
| 17 | 18,3 | 1    | 3,9   | 2,1 | 1,7 | 0,557 |
| 18 | 19,5 | 1    | 4,1   | 2,2 | 2,0 | 0,656 |
| 19 | 20,5 | 1    | 4,1   | 2,2 | 2,0 | 0,687 |
| 20 | 21,5 | 1    | 4,2   | 2,3 | 2,0 | 0,730 |
| 21 | 22,5 | 1    | 4,2   | 2,4 | 2,0 | 0,810 |
| 22 | 23,5 | 1    | 4,2   | 2,5 | 2,0 | 0,883 |
| 23 | 24,6 | 1,2  | 4,2   | 2,5 | 2,0 | 1,113 |
| 24 | 25,9 | 1,2  | 4,4   | 2,6 | 2,0 | 1,228 |
| 25 | 26,9 | 1,2  | 4,5   | 2,7 | 2,0 | 1,340 |
| 26 | 27,9 | 1,2  | 4,7   | 2,8 | 2,0 | 1,464 |
| 27 | 29,1 | 1,2  | 4,7   | 2,9 | 2,0 | 1,587 |
| 28 | 30,1 | 1,2  | 4,8   | 2,9 | 2,0 | 1,630 |
| 29 | 31,1 | 1,2  | 4,8   | 3,0 | 2,0 | 1,729 |
| 30 | 31,1 | 1,2  | 4,8   | 3,0 | 2,0 | 1,808 |
| 31 | 33,4 | 1,2  | 5,2   | 3,2 | 2,5 | 1,952 |
| 32 | 24,4 | 1,2  | 5,4   | 3,2 | 2,5 | 2,640 |
| 33 | 35,5 | 1,2  | 5,4   | 3,3 | 2,5 | 2,200 |
| 34 | 36,5 | 1,5  | 5,4   | 3,3 | 2,5 | 3,055 |
| 35 | 37,8 | 1,5  | 5,4   | 3,4 | 2,5 | 3,047 |
| 36 | 38,8 | 1,5  | 5,4   | 3,5 | 2,5 | 3,458 |
| 37 | 39,8 | 1,5  | 5,5   | 3,6 | 2,5 | 3,425 |
| 38 | 40,8 | 1,5  | 5,5   | 3,7 | 2,5 | 3,485 |
| 39 | 42,0 | 1,5  | 5,6   | 3,8 | 2,5 | 3,620 |
| 40 | 43,5 | 1,75 | 5,8   | 3,9 | 2,5 | 4,653 |
| 41 | 44,5 | 1,75 | 5,9   | 4,0 | 2,5 | 5,287 |
| 42 | 45,5 | 1,75 | 5,9   | 4,1 | 2,5 | 5,553 |
| 43 | 46,5 | 1,75 | 5,9   | 4,2 | 2,5 | 5,701 |

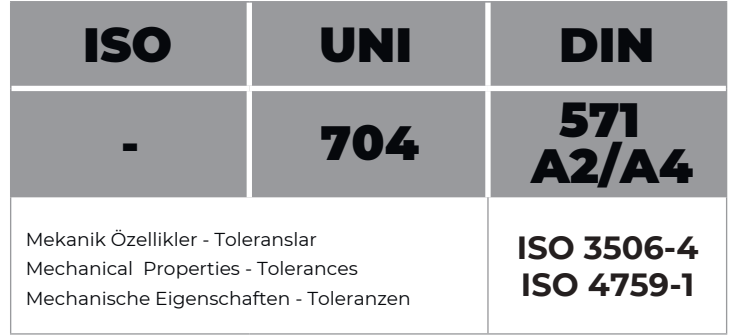
| d   | d3    |                 | s    |             | a max | b ≈   | d5     | gr     |
|-----|-------|-----------------|------|-------------|-------|-------|--------|--------|
| 44  | 47,5  | + 0,9           | 1,75 | 0<br>- 0,06 | 6,0   | 4,2   | 2,5    | 5,135  |
| 45  | 48,5  | - 0,39          | 1,75 |             | 6,2   | 4,3   | 2,5    | 5,777  |
| 46  | 49,5  |                 | 1,75 |             | 6,3   | 4,4   | 2,5    | 6,439  |
| 47  | 50,5  |                 | 1,75 |             | 6,4   | 4,4   | 2,5    | 6,517  |
| 48  | 51,5  |                 | 1,75 |             | 6,4   | 4,5   | 2,5    | 6,792  |
| 50  | 54,2  |                 | 2    | 0<br>- 0,07 | 6,5   | 4,6   | 2,5    | 8,228  |
| 51  | 55,2  |                 | 2    |             | 6,5   | 4,7   | 2,5    | 9,370  |
| 52  | 56,2  |                 | 2    |             | 6,7   | 4,7   | 2,5    | 8,501  |
| 53  | 57,2  |                 | 2    |             | 6,7   | 4,9   | 2,5    | 9,210  |
| 54  | 58,2  |                 | 2    |             | 6,7   | 5,0   | 2,5    | 9,357  |
| 55  | 59,2  |                 | 2    |             | 6,8   | 5,0   | 2,5    | 9,584  |
| 56  | 60,2  |                 | 2    |             | 6,8   | 5,1   | 2,5    | 9,717  |
| 57  | 61,2  | + 1,1<br>- 0,46 | 2    |             | 6,8   | 5,1   | 2,5    | 9,970  |
| 58  | 62,2  |                 | 2    |             | 6,9   | 5,2   | 2,5    | 10,650 |
| 60  | 64,2  |                 | 2    |             | 7,3   | 5,4   | 2,5    | 10,990 |
| 62  | 66,2  |                 | 2    |             | 7,3   | 5,5   | 2,5    | 11,370 |
| 63  | 67,2  |                 | 2    |             | 7,3   | 5,6   | 2,5    | 12,531 |
| 65  | 69,2  |                 | 2,5  |             | 7,6   | 5,8   | 3,0    | 16,40  |
| 67  | 71,5  |                 | 2,5  |             | 7,7   | 6,0   | 3,0    | 17,75  |
| 68  | 72,5  |                 | 2,5  |             | 7,8   | 6,1   | 3,0    | 17,90  |
| 70  | 74,5  |                 | 2,5  | 7,8         | 6,2   | 3,0   | 19,19  |        |
| 72  | 76,5  |                 | 2,5  | 7,8         | 6,4   | 3,0   | 20,085 |        |
| 75  | 79,5  |                 | 2,5  | 7,8         | 6,6   | 3,0   | 21,25  |        |
| 77  | 81,5  |                 | 2,5  | 8,5         | 6,8   | 3,0   | 23,90  |        |
| 78  | 82,5  |                 | 2,5  | 8,5         | 6,8   | 3,0   | 23,90  |        |
| 80  | 85,5  |                 | 2,5  | 8,5         | 7,0   | 3,0   | 24,87  |        |
| 82  | 87,5  |                 | 2,5  | 8,5         | 7,0   | 3,0   | 25,57  |        |
| 85  | 90,5  |                 | 3    | 0<br>- 0,08 | 8,6   | 7,2   | 3,5    | 31,81  |
| 87  | 92,5  |                 | 3    |             | 8,6   | 7,4   | 3,5    | 34,42  |
| 88  | 93,5  | + 1,3<br>- 0,54 | 3    |             | 8,6   | 7,4   | 3,5    | 34,42  |
| 90  | 95,5  |                 | 3    |             | 8,6   | 7,6   | 3,5    | 36,19  |
| 92  | 97,5  |                 | 3    |             | 8,7   | 7,8   | 3,5    | 36,51  |
| 95  | 100,5 |                 | 3    |             | 8,8   | 8,1   | 3,5    | 39,26  |
| 97  | 100,5 |                 | 3    |             | 9,0   | 8,3   | 3,5    | 40,00  |
| 98  | 102,5 | 3               | 9,0  |             | 8,3   | 3,5   | 40,00  |        |
| 100 | 105,5 | 3               | 9,2  | 8,4         | 3,5   | 42,11 |        |        |
|     |       |                 |      |             |       |       |        |        |
|     |       |                 |      |             |       |       |        |        |
|     |       |                 |      |             |       |       |        |        |
|     |       |                 |      |             |       |       |        |        |
|     |       |                 |      |             |       |       |        |        |
|     |       |                 |      |             |       |       |        |        |
|     |       |                 |      |             |       |       |        |        |
|     |       |                 |      |             |       |       |        |        |
|     |       |                 |      |             |       |       |        |        |
|     |       |                 |      |             |       |       |        |        |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## SECHSKANT-HOLZSCHRAUBE

[illegible]

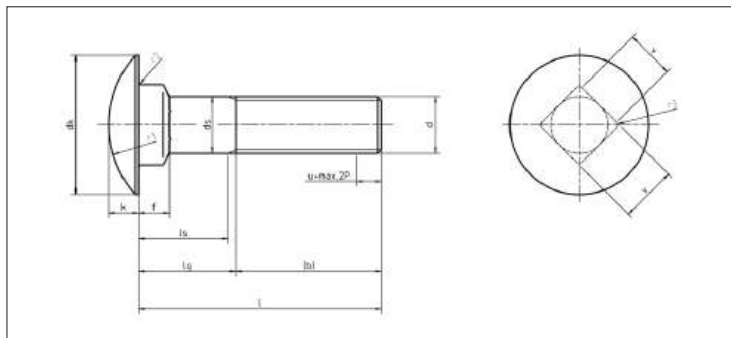
Werte sind in millimetern angegeben.

**INOX YUVARLAK BAŞLI DİBİ DÖRT KÖŞE CIVATA**

MUSHROOM HEAD SQUARE NECK BOLTS      FLACHRUNDSCHRAUBE MIT VIERKANTANSATZ

## MUSHROOM HEAD SQUARE NECK BOLTS

## FLACHRUNDSCHRAUBE MIT VIERKANTANSATZ



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>8677</b>                                                                                                      | <b>5731</b> | <b>603<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-1</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |                     | TECHNICAL INFORMATIONS |       |       | TECHNISCHE INFORMATION |       |
|-----------------|---------------------|------------------------|-------|-------|------------------------|-------|
| d               |                     | M5                     | M6    | M8    | M10                    | M12   |
| p               |                     |                        | 1,00  | 1,25  | 1,50                   | 1,75  |
| k               | max                 | 3,30                   | 3,88  | 4,88  | 5,38                   | 6,95  |
|                 | min                 | 2,70                   | 3,12  | 4,12  | 4,62                   | 6,05  |
| dk              | max                 | 13,55                  | 16,55 | 20,65 | 24,65                  | 30,65 |
|                 | min                 | 12,45                  | 15,45 | 19,35 | 23,35                  | 29,35 |
| f               | max                 | 4,01                   | 4,60  | 5,60  | 6,60                   | 8,75  |
|                 | min                 | 2,90                   | 3,40  | 4,40  | 5,40                   | 7,25  |
| v               | max                 | 5,48                   | 6,48  | 8,58  | 10,58                  | 12,70 |
|                 | min                 | 4,52                   | 5,52  | 7,42  | 9,42                   | 11,30 |
| b               | I ≤ 125             | 16                     | 18    | 22    | 26                     | 30    |
|                 | I >125 (125<I≤ 200) | 22                     | 24    | 28    | 32                     | 36    |
|                 | I > 200             |                        |       | 41    | 45                     | 49    |

Değerler milimetre olarak verilmiştir.

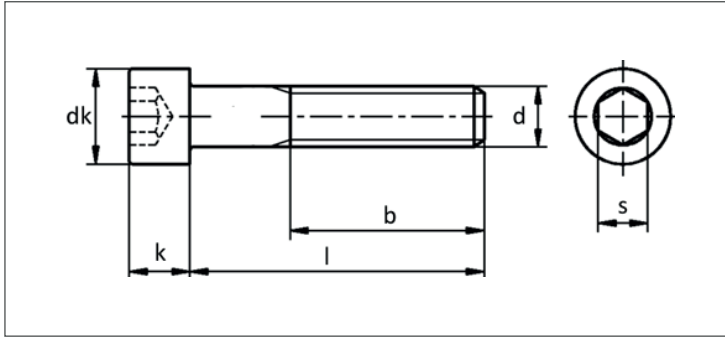
Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX SOKET BAŞLI İMBUS CIVATA

HEXAGON SOCKET HEAD CAP SCREWS

ZYLINDERSCHRAUBE MIT INNENSECHSKANT



| ISO                                                                                                              | UNI         | DIN                              |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|
| <b>4762</b>                                                                                                      | <b>5931</b> | <b>912<br/>A2/A4</b>             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-1<br/>ISO 4759-1</b> |

| TEKNİK BİLGİLER |                                     |                   | TECHNICAL INFORMATION |      |       |       |       | TECHNISCHE INFORMATION |       |       |       |       |       |
|-----------------|-------------------------------------|-------------------|-----------------------|------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|
| d               |                                     | M3 <sup>(1)</sup> | M4 <sup>(1)</sup>     | M5   | M6    | M8    | M10   | M12                    | M14   | M16   | M18   | M20   | M24   |
| p               |                                     | 0,5               | 0,7                   | 0,8  | 1,0   | 1,3   | 1,5   | 1,8                    | 2,0   | 2,5   | 2,5   | 2,5   | 3     |
| dk              | max (Tırtılsız Başlı / Plain Heads) | 5,5               | 7,0                   | 8,5  | 10,0  | 13,0  | 16,0  | 18,0                   | 21,0  | 24,0  | 27,0  | 30,0  | 36    |
|                 | max (Tırtıl Başlı / Knurled Heads)  | 5,68              | 7,72                  | 8,72 | 10,22 | 13,27 | 16,27 | 18,27                  | 21,33 | 24,33 | 27,33 | 30,33 | 36,39 |
|                 | min                                 | 5,32              | 6,78                  | 8,28 | 9,78  | 12,73 | 15,73 | 17,73                  | 20,67 | 23,67 | 26,67 | 29,67 | 35,61 |
| k               | max                                 | 3                 | 4                     | 5    | 6     | 8     | 10    | 12                     | 14    | 16    | 18    | 20    | 24    |
|                 | min                                 | 2,86              | 3,82                  | 4,82 | 5,70  | 7,64  | 9,64  | 11,57                  | 13,57 | 15,57 | 17,57 | 19,48 | 23,48 |
| s               | nominal                             | 2,50              | 3,00                  | 4,00 | 5,00  | 6,00  | 8,00  | 10,00                  | 12,00 | 14,00 | 14,00 | 17,00 | 19    |
|                 | max                                 | 2,58              | 3,08                  | 4,09 | 5,14  | 6,14  | 8,17  | 10,17                  | 12,21 | 14,21 | 14,21 | 17,23 | 19,27 |
|                 | min                                 | 2,52              | 3,02                  | 4,02 | 5,02  | 6,02  | 8,02  | 10,02                  | 12,03 | 14,03 | 14,03 | 17,05 | 19,06 |
| e               | min                                 | 2,87              | 3,44                  | 4,58 | 5,72  | 6,86  | 9,15  | 11,43                  | 13,72 | 16,00 | 16,00 | 19,44 | 21,73 |
| t               | min                                 | 1,30              | 2,00                  | 2,50 | 3,00  | 4,00  | 5,00  | 6,00                   | 7,00  | 8,00  | 9,00  | 10,00 | 12,00 |
| b               |                                     | 18                | 20                    | 22   | 24    | 28    | 32    | 36                     | 40    | 44    | 48    | 52    | 60    |

| l   | min    | max    | M3   | M4   | M5    | M6    | M8    | M10    | M12    | M14    | M16    | M18    | M20    | M24    |
|-----|--------|--------|------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 6   | 5,76   | 6,24   | 0,72 | 1,52 | 2,23  |       |       |        |        |        |        |        |        |        |
| 8   | 7,71   | 8,29   | 0,81 | 1,67 | 2,48  | 4,38  |       |        |        |        |        |        |        |        |
| 10  | 9,71   | 10,29  | 0,89 | 1,82 | 2,73  | 4,76  | 10,40 | 18,10  |        |        |        |        |        |        |
| 12  | 11,65  | 12,35  | 0,97 | 1,97 | 2,99  | 5,13  | 11,00 | 19,10  |        |        |        |        |        |        |
| 14  | 13,65  | 14,35  | 1,06 | 2,13 | 3,24  | 5,51  | 11,60 | 20,10  |        |        |        |        |        |        |
| 16  | 15,65  | 16,35  | 1,17 | 2,28 | 3,49  | 5,82  | 12,20 | 21,20  | 28,80  |        |        |        |        |        |
| 18  | 17,58  | 18,42  | 1,28 | 2,48 | 3,74  | 6,19  | 13,50 | 22,20  |        |        |        |        |        |        |
| 20  | 19,58  | 20,42  | 1,38 | 2,68 | 4,06  | 6,61  | 13,60 | 23,20  | 32,50  | 43,50  | 64,70  |        |        |        |
| 22  | 21,58  | 22,42  | 1,48 | 2,93 | 4,37  | 6,98  | 14,20 | 24,20  | 34,30  | 45,50  | 67,70  |        |        |        |
| 25  | 24,58  | 25,42  | 1,63 | 3,19 | 4,84  | 7,68  | 15,20 | 25,70  | 36,10  | 48,60  | 72,20  |        |        |        |
| 30  | 29,58  | 30,42  | 1,88 | 3,69 | 5,62  | 8,40  | 17,10 | 28,20  | 39,80  | 53,60  | 78,70  | 112,30 | 129,50 |        |
| 35  | 34,50  | 35,50  | 2,14 | 4,20 | 6,40  | 10,03 | 19,10 | 30,80  | 43,40  | 58,70  | 85,40  | 121,40 | 140,70 |        |
| 40  | 39,50  | 40,50  | 2,39 | 4,71 | 7,18  | 11,13 | 21,20 | 33,30  | 47,10  | 63,80  | 92,10  | 130,50 | 151,80 | 273,00 |
| 45  | 44,50  | 45,50  | 2,64 | 5,21 | 7,95  | 12,25 | 23,20 | 36,50  | 50,70  | 68,80  | 98,80  | 139,70 | 162,90 | 288,00 |
| 50  | 49,50  | 50,50  | 2,89 | 5,72 | 8,73  | 13,36 | 25,20 | 39,80  | 55,20  | 73,90  | 107,30 | 148,80 | 174,00 | 304,00 |
| 55  | 54,40  | 55,60  |      | 6,22 | 9,51  | 14,47 | 27,20 | 43,00  | 59,60  | 78,90  | 115,40 | 157,90 | 185,20 | 320,00 |
| 60  | 59,40  | 60,60  |      | 6,73 | 10,32 | 15,58 | 29,20 | 46,20  | 64,20  | 85,00  | 123,50 | 167,00 | 196,30 | 334,00 |
| 65  | 64,40  | 65,60  |      | 7,24 | 11,13 | 16,20 | 31,40 | 49,50  | 68,60  | 91,10  | 131,60 | 176,10 | 207,00 | 349,00 |
| 70  | 69,40  | 70,60  |      | 7,74 | 11,94 | 17,81 | 33,40 | 52,70  | 72,20  | 97,20  | 139,70 | 185,20 | 219,00 | 367,00 |
| 75  | 74,40  | 75,60  |      |      | 12,75 | 18,92 | 35,40 | 56,00  | 76,70  | 103,20 | 147,80 | 195,30 | 231,00 | 384,00 |
| 80  | 79,40  | 80,60  |      |      | 13,56 | 20,00 | 37,40 | 59,20  | 81,20  | 109,30 | 155,80 | 205,40 | 244,00 | 404,00 |
| 85  | 84,30  | 85,70  |      |      | 14,37 | 21,20 | 37,70 | 62,40  | 85,70  | 115,40 | 163,90 | 215,60 | 255,00 | 421,00 |
| 90  | 89,30  | 90,70  |      |      | 15,18 | 22,30 | 41,80 | 65,70  | 90,20  | 121,40 | 172,00 | 225,70 | 269,00 | 440,00 |
| 100 | 99,30  | 100,70 |      |      |       | 24,50 | 45,90 | 72,10  | 99,20  | 133,60 | 188,20 | 245,90 | 294,00 | 477,00 |
| 110 | 109,30 | 110,70 |      |      |       | 26,70 | 50,00 | 78,40  | 108,20 | 145,70 | 204,40 | 266,20 | 320,00 | 513,00 |
| 120 | 119,30 | 120,70 |      |      |       | 28,90 | 54,10 | 84,80  | 117,20 |        | 220,60 | 286,40 | 345,00 | 550,00 |
| 130 | 129,20 | 130,80 |      |      |       | 31,20 | 67,00 | 91,20  | 126,50 |        | 236,80 |        | 370,00 |        |
| 140 | 139,20 | 140,80 |      |      |       |       | 70,70 | 97,90  | 135,60 |        | 253,00 |        |        |        |
| 150 | 149,20 | 150,80 |      |      |       |       | 74,30 | 103,90 | 144,70 |        | 269,20 |        |        |        |
| 160 | 159,20 | 160,80 |      |      |       |       |       |        | 153,90 |        | 285,40 |        |        |        |
| 170 | 169,20 | 170,80 |      |      |       |       |       |        | 163,00 |        | 301,60 |        |        |        |
| 180 | 179,20 | 180,80 |      |      |       |       |       |        | 172,20 |        | 317,80 |        |        |        |

Değerler milimetre olarak verilmiştir.

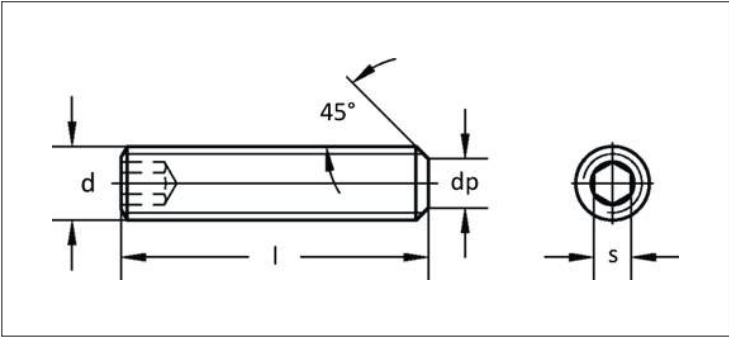
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX ALYAN BAŞLI SETSKUR

FLAT POINT HEXAGON SOCKET SET SCREWS      FLACHSPITZ-INNENSECHSKANT-STELLSCHRAUBEN

FLAT POINT HEXAGON SOCKET SET SCREWS      FLACHSPITZ-INNENSECHSKANT-STELLSCHRAUBEN



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>4026</b>                                                                                                      | <b>5923</b> | <b>913<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b><br><b>ISO 4759-1</b> |

| TEKNIK BİLGİLER |         | TECHNICAL INFORMATIONS |      |      |      |      | TECHNISCHE INFORMATION |      |      |       |
|-----------------|---------|------------------------|------|------|------|------|------------------------|------|------|-------|
| d               |         | M3                     | M4   | M5   | M6   | M8   | M10                    | M12  | M14  | M16   |
| p               |         | 0,5                    | 0,7  | 0,8  | 1    | 1,25 | 1,5                    | 1,75 | 2    | 2     |
| dp              | max     | 2                      | 2,5  | 3,5  | 4    | 5,5  | 7                      | 8,5  | 10   | 12    |
|                 | min     | 1,75                   | 2,25 | 3,2  | 3,7  | 5,2  | 6,64                   | 8,14 | 9,64 | 11,57 |
| s               | nominal | 1,5                    | 2    | 2,5  | 3    | 4    | 5                      | 6    | 6    | 8     |
|                 | max     | 1,54                   | 2,04 | 2,56 | 3,08 | 4,09 | 5,09                   | 6,09 | 6,09 | 8,11  |
|                 | min     | 1,52                   | 2,02 | 2,52 | 3,02 | 4,02 | 5,02                   | 6,02 | 6,02 | 8,02  |
| e               | min     | 1,73                   | 2,3  | 2,87 | 3,44 | 4,58 | 5,72                   | 6,86 | 6,86 | 9,15  |
| t               | 3) min  | 1,2                    | 1,5  | 2    | 2    | 3    | 4                      | 4,8  | 5,6  | 6,4   |
|                 | 4) min  | 2                      | 2,5  | 3    | 3,5  | 5    | 6                      | 8    | 9    | 10    |
|                 |         |                        |      |      |      |      |                        |      |      |       |
|                 |         |                        |      |      |      |      |                        |      |      |       |
|                 |         |                        |      |      |      |      |                        |      |      |       |
|                 |         |                        |      |      |      |      |                        |      |      |       |

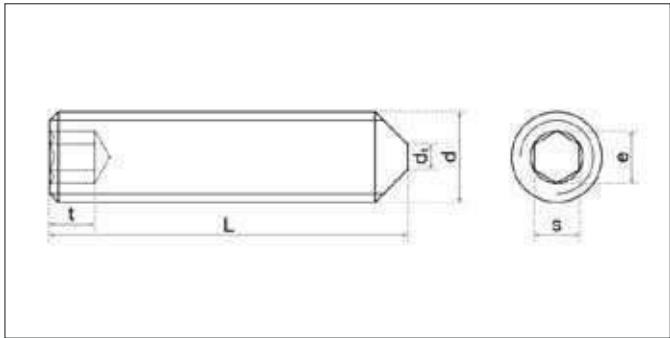
[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX ALYAN BAŞLI SİVRİ UÇLU SETSKUR



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>4027</b>                                                                                                      | <b>5927</b> | <b>914<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |         | TECHNICAL INFORMATIONS |      |      | TECHNISCHE INFORMATION |      |      |      |
|-----------------|---------|------------------------|------|------|------------------------|------|------|------|
| d               |         | M3                     | M4   | M5   | M6                     | M8   | M10  | M12  |
| p               |         | 0,5                    | 0,7  | 0,8  | 1                      | 1,25 | 1,5  | 1,75 |
| dt              | max     |                        |      |      | 1,5                    | 2    | 2,5  | 3    |
|                 | min     |                        |      |      | 0,9                    | 1,4  | 1,9  | 2,4  |
| s               | nominal | 1,5                    | 2    | 2,5  | 3                      | 4    | 5    | 6    |
|                 | max     | 1,54                   | 2,04 | 2,56 | 3,08                   | 4,09 | 5,09 | 6,09 |
|                 | min     | 1,52                   | 2,02 | 2,52 | 3,02                   | 4,02 | 5,02 | 6,02 |
| e               | min     | 1,73                   | 2,30 | 2,87 | 3,44                   | 4,58 | 5,72 | 6,86 |
| t               | 3) min  | 1,2                    | 1,5  | 2    | 2                      | 3    | 4    | 4,5  |
|                 | 4) min  | 2,0                    | 2,5  | 3    | 3,5                    | 5    | 6    | 8    |
|                 |         |                        |      |      |                        |      |      |      |
|                 |         |                        |      |      |                        |      |      |      |
|                 |         |                        |      |      |                        |      |      |      |
|                 |         |                        |      |      |                        |      |      |      |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

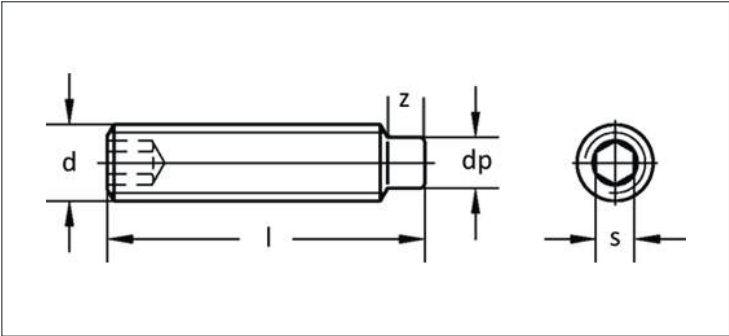
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX DOG POINT SETSKUR

DOG POINT HEXAGON SOCKET SET SCREWS      DOG POINT INNENSECHSKANT-STELLSCHRAUBEN

DOG POINT HEXAGON SOCKET SET SCREWS      DOG POINT INNENSECHSKANT-STELLSCHRAUBEN



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>4028</b>                                                                                                      | <b>5925</b> | <b>915<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b><br><b>ISO 4759-1</b> |

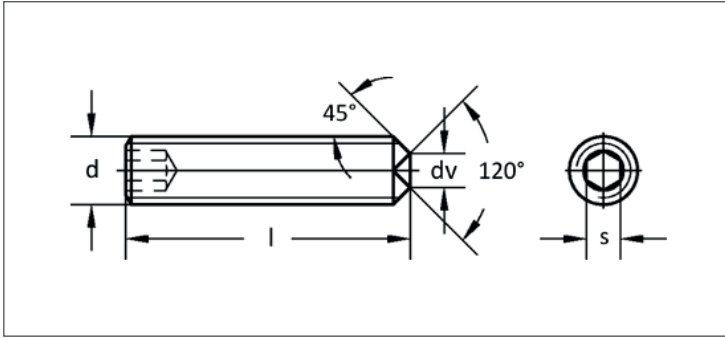
| TEKNIK BİLGİLER     |         | TECHNICAL INFORMATIONS |      |      | TECHNISCHE INFORMATION |      |      |
|---------------------|---------|------------------------|------|------|------------------------|------|------|
| d                   |         | M4                     | M5   | M6   | M8                     | M10  | M12  |
| p                   |         | 0,7                    | 0,8  | 1    | 1,25                   | 1,5  | 1,75 |
| dp                  | max     | 2,5                    | 3,5  | 4    | 5,5                    | 7    | 8,5  |
|                     | min     | 2,25                   | 3,2  | 3,7  | 5,2                    | 6,64 | 8,14 |
| s                   | nominal | 2                      | 2,5  | 3    | 4                      | 5    | 6    |
|                     | max     | 2,04                   | 2,56 | 3,06 | 4,09                   | 5,09 | 6,09 |
|                     | min     | 2,02                   | 2,52 | 3,02 | 4,02                   | 5,02 | 6,02 |
| e                   | min     | 2,30                   | 2,87 | 3,44 | 4,58                   | 5,72 | 6,86 |
| t                   | 3) min  | 1,5                    | 2    | 2    | 3                      | 4    | 4,8  |
|                     | 4) min  | 2,5                    | 3    | 3,5  | 5                      | 6    | 8    |
| z (short dog point) | max     | 1,25                   | 1,50 | 1,75 | 2,25                   | 2,75 | 3,25 |
|                     | min     | 1                      | 1,25 | 1,5  | 2                      | 2,5  | 3    |
| z (long dog point)  | max     | 2,25                   | 2,75 | 3,25 | 4,3                    | 5,3  | 6,3  |
|                     | min     | 2                      | 2,5  | 3    | 4                      | 5    | 6    |

[illegible]

# INOX SETSKUR

## CUP POINT HEXAGON SOCKET SET SCREWS

## CUP POINT INNENSECHSKANT-STELLSCHRAUBEN



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>4029</b>                                                                                                      | <b>5929</b> | <b>916<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |         | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |      |      |
|-----------------|---------|------------------------|------|------|------|------------------------|------|------|
| d               |         | M3                     | M4   | M5   | M6   | M8                     | M10  | M12  |
| p               |         | 0,5                    | 0,7  | 0,8  | 1    | 1,25                   | 1,5  | 1,75 |
| dv              | max     | 1,4                    | 2    | 2,5  | 3    | 5                      | 6    | 8    |
|                 | min     | 1,15                   | 1,75 | 2,25 | 2,75 | 4,7                    | 5,7  | 7,64 |
| s               | nominal | 1,5                    | 2    | 2,5  | 3    | 4                      | 5    | 6    |
|                 | max     | 1,54                   | 2,04 | 2,56 | 3,08 | 4,09                   | 5,09 | 6,09 |
|                 | min     | 1,52                   | 2,02 | 2,52 | 3,02 | 4,02                   | 5,02 | 6,02 |
| e               | min     | 1,73                   | 2,3  | 2,87 | 3,44 | 4,58                   | 5,72 | 6,86 |
| t               | 3) min  | 1,2                    | 1,5  | 2    | 2    | 3                      | 4    | 4,8  |
|                 | 4) min  | 2                      | 2,5  | 3    | 3,5  | 5                      | 6    | 8    |
|                 |         |                        |      |      |      |                        |      |      |
|                 |         |                        |      |      |      |                        |      |      |
|                 |         |                        |      |      |      |                        |      |      |

[illegible]

Değerler milimetre olarak verilmiştir.

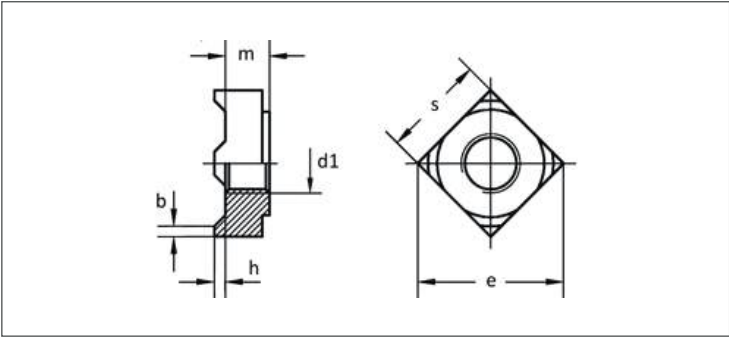
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX DÖRT KÖŞE KAYNAK SOMUNU

SQUARE WELD NUT VIERKANT-SCHWEISSMUTTERN

SQUARE WELD NUT VIERKANT-SCHWEISSMUTTERN



| ISO                                                                                                              | UNI | DIN                                                         |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|
| -                                                                                                                | -   | <b>928<br/>A2/A4</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

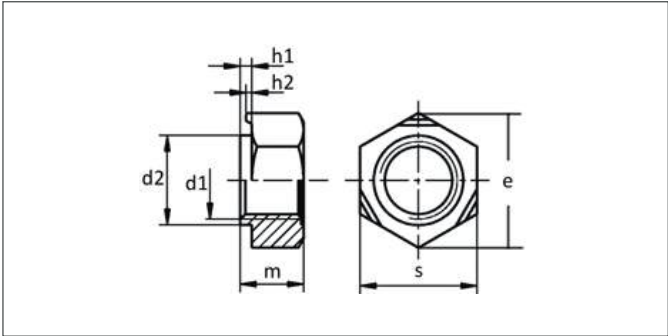
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX ALTI KÖŞE KAYNAK SOMUNU

HEXAGON WELD NUT SECHSKANT SCHWEISSMUTTERN

HEXAGON WELD NUT SECHSKANT SCHWEISSMUTTERN



| ISO                                                                                                              | UNI | DIN                                                         |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|
| -                                                                                                                | -   | <b>929<br/>A2/A4</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

| ISO                                                                                                              | UNI | DIN                                                         |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|
| -                                                                                                                | -   | <b>929<br/>A2/A4</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

| ISO                                                                                                              | UNI | DIN                                                         |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|
| -                                                                                                                | -   | <b>929<br/>A2/A4</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

| ISO                                                                                                              | UNI | DIN                                                         |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|
| -                                                                                                                | -   | <b>929<br/>A2/A4</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

| ISO                                                                                                              | UNI | DIN                                                         |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|
| -                                                                                                                | -   | <b>929<br/>A2/A4</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

| ISO                                                                                                              | UNI | DIN                                                         |
|------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|
| -                                                                                                                | -   | <b>929<br/>A2/A4</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

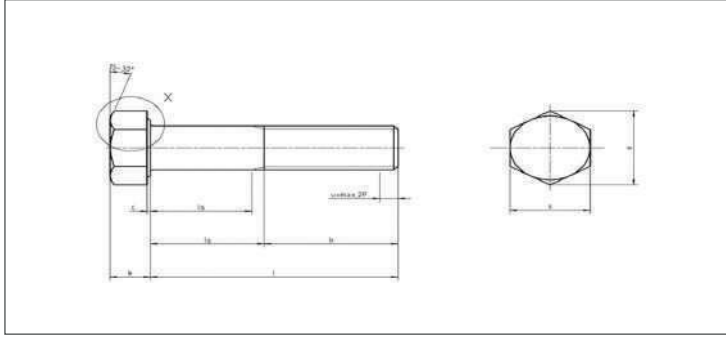
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# INOX ALTİKÖŞE BAŞLI METRİK DİŞ YARIM PASO CIVATA

HEXAGON HEAD BOLT METRIC PARTIAL THREAD

SECHSKANTSCHRAUBE MIT SCHAFT



| ISO                                                                                                              | UNI         | DIN                              |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|
| <b>4014</b>                                                                                                      | <b>5737</b> | <b>931<br/>A2/A4</b>             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-1<br/>ISO 4759-1</b> |

| TEKNİK BİLGİLER |                      |     | TECHNICAL INFORMATION |       |       |       |       |       | TECHNISCHE INFORMATION |       |       |       |       |       |       |
|-----------------|----------------------|-----|-----------------------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|-------|
| d               |                      |     | M5                    | M6    | M8    | M10   | M12   | M14   | M16                    | M18   | M20   | M22   | M24   | M27   | M30   |
| p               |                      |     | 0,8                   | 1     | 1,25  | 1,5   | 1,75  | 2     | 2                      | 2,5   | 2,5   | 2,5   | 3     | 3     | 3,5   |
| s               | max                  |     | 8                     | 10    | 13    | 17    | 19    | 22    | 24                     | 27    | 30    | 32    | 36    | 41    | 46    |
|                 | Grade A              | min | 7,78                  | 9,78  | 12,73 | 16,73 | 18,67 | 21,67 | 23,67                  | 26,67 | 29,67 | 31,61 | 35,38 |       |       |
|                 | Grade B              | min |                       |       |       |       |       |       | 23,16                  | 26,16 | 29,18 | 31,00 | 35,00 | 40,00 | 45,00 |
| k               | nominal              |     | 3,5                   | 4     | 5,3   | 6,4   | 7,5   | 8,8   | 10                     | 11,5  | 12,5  | 14    | 15    | 17    | 18,7  |
|                 | Grade A              | max | 3,35                  | 3,85  | 5,15  | 6,22  | 7,32  | 8,62  | 9,82                   | 11,28 | 12,28 | 13,78 | 14,78 |       |       |
|                 |                      | min | 3,65                  | 4,15  | 5,45  | 6,58  | 7,68  | 8,98  | 10,18                  | 11,72 | 12,72 | 14,22 | 15,55 |       |       |
|                 | Grade B              | max |                       |       |       |       |       |       | 9,71                   | 11,15 | 12,15 | 13,65 | 13,65 | 16,65 | 18,28 |
|                 |                      | min |                       |       |       |       |       |       | 10,29                  | 11,85 | 12,85 | 14,35 | 14,35 | 17,35 | 19,12 |
| e               | Grade A              | min | 8,79                  | 11,05 | 14,38 | 18,9  | 21,10 | 24,49 | 26,75                  | 30,14 | 33,53 | 35,72 | 39,98 |       |       |
|                 | Grade B              | min |                       |       |       |       |       |       | 26,17                  | 29,56 | 32,95 | 35,03 | 39,55 | 45,20 | 50,85 |
| b               | I ≤ 125              |     | 16                    | 18    | 22    | 26    | 30    | 34    | 38                     | 42    | 46    | 50    | 54    | 60    | 66    |
|                 | I >125 (125<I ≤ 200) |     | 22                    | 24    | 28    | 32    | 36    | 40    | 44                     | 48    | 52    | 56    | 60    | 66    | 72    |
|                 | I > 200              |     |                       |       |       | 45    | 49    | 53    | 57                     | 61    | 65    | 69    | 73    | 79    | 85    |

| I   | min    | max    | M5    | M6    | M8    | M10    | M12    | M14    | M16    | M18    | M20    | M22    | M24    | M27      | M30      |
|-----|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|
| 25  | 24,58  | 25,42  | 4,91  | 7,06  |       |        |        |        |        |        |        |        |        |          |          |
| 30  | 29,58  | 30,42  | 5,70  | 8,14  |       |        |        |        |        |        |        |        |        |          |          |
| 35  | 34,50  | 35,50  | 6,49  | 9,22  | 18,39 | 32,26  |        |        |        |        |        |        |        |          |          |
| 40  | 39,50  | 40,50  | 7,27  | 10,30 | 20,91 | 35,36  | 49,50  |        |        |        |        |        |        |          |          |
| 45  | 44,50  | 45,50  | 8,06  | 11,42 | 22,43 | 38,39  | 54,15  | 76,27  |        |        |        |        |        |          |          |
| 50  | 49,50  | 50,50  | 8,85  | 12,43 | 24,45 | 41,52  | 58,69  | 82,84  | 108,28 | 142,44 |        |        |        |          |          |
| 55  | 54,40  | 55,60  | 9,64  | 13,54 | 26,06 | 44,25  | 63,24  | 89,00  | 116,38 | 152,54 | 196,99 |        |        |          |          |
| 60  | 59,40  | 60,60  | 10,40 | 14,55 | 28,08 | 47,38  | 67,68  | 95,06  | 124,48 | 162,64 | 209,11 | 253,56 | 323,26 |          |          |
| 65  | 64,40  | 65,60  | 11,21 | 15,66 | 30,10 | 50,51  | 71,02  | 99,81  | 132,57 | 172,74 | 221,23 | 268,71 | 341,44 |          |          |
| 70  | 69,40  | 70,60  | 12,02 | 16,67 | 32,12 | 53,64  | 75,46  | 106,07 | 140,67 | 182,84 | 233,35 | 283,66 | 359,63 | 470,00   | 610,00   |
| 75  | 74,40  | 75,60  | 12,83 | 17,78 | 34,04 | 56,77  | 79,91  | 112,13 | 148,76 | 192,95 | 245,48 | 299,02 | 377,81 | 493,00   |          |
| 80  | 79,40  | 80,60  | 13,64 | 18,79 | 36,06 | 59,90  | 84,45  | 118,19 | 156,89 | 202,04 | 257,60 | 314,17 | 395,99 | 516,00   | 665,00   |
| 85  | 84,30  | 85,70  |       | 19,90 | 38,08 | 63,04  | 88,90  | 124,25 | 164,96 | 212,14 | 269,72 | 329,32 | 414,18 | 539,00   |          |
| 90  | 89,30  | 90,70  |       | 21,01 | 40,00 | 66,17  | 93,34  | 128,29 | 173,05 | 222,24 | 281,84 | 344,48 | 432,36 | 563,00   | 719,00   |
| 100 | 99,30  | 100,70 |       | 23,23 | 44,04 | 72,43  | 102,03 | 140,42 | 188,23 | 242,45 | 306,09 | 373,77 | 468,73 | 609,00   | 775,00   |
| 110 | 109,30 | 110,70 |       | 25,46 | 49,78 | 78,69  | 110,11 | 152,54 | 204,42 | 262,55 | 330,33 | 404,08 | 505,10 | 657,00   | 831,00   |
| 120 | 119,30 | 120,70 |       | 27,68 | 51,92 | 84,96  | 119,20 | 165,67 | 220,62 | 282,55 | 354,58 | 434,38 | 540,45 | 702,00   | 889,00   |
| 130 | 129,20 | 130,80 |       | 29,90 | 55,86 | 91,22  | 128,29 | 175,77 | 232,76 | 299,02 | 377,81 | 454,59 | 565,71 | 727,00   | 929,00   |
| 140 | 139,20 | 140,80 |       | 32,12 | 59,80 | 97,48  | 137,39 | 186,89 | 248,95 | 319,22 | 402,06 | 484,89 | 601,06 | 773,00   | 985,00   |
| 150 | 149,20 | 150,80 |       | 34,35 | 63,74 | 103,75 | 146,48 | 198,00 | 265,00 | 339,42 | 426,30 | 515,20 | 636,42 | 818,00   | 1.040,00 |
| 160 | 159,20 | 160,80 |       |       | 67,68 | 110,01 | 154,56 | 209,11 | 281,34 | 359,63 | 450,55 | 545,50 | 671,78 | 864,00   | 1.101,00 |
| 170 | 169,20 | 170,80 |       |       | 71,62 | 116,27 | 163,65 | 220,22 | 297,53 | 379,83 | 474,79 | 575,81 | 707,13 | 909,00   | 1.152,00 |
| 180 | 179,20 | 180,80 |       |       | 75,56 | 122,54 | 172,74 | 231,33 | 313,72 | 400,04 | 499,03 | 606,11 | 742,49 | 955,00   | 1.212,00 |
| 190 | 189,80 | 190,92 |       |       |       | 128,80 | 181,33 | 242,45 | 329,91 | 420,24 | 524,29 | 636,42 | 777,85 | 1.000,00 | 1.263,00 |
| 200 | 199,10 | 200,90 |       |       |       | 135,06 | 190,12 | 253,56 | 346,10 | 440,44 | 549,54 | 666,73 | 813,20 | 1.040,00 | 1.323,00 |
|     |        |        |       |       |       |        |        |        |        |        |        |        |        |          |          |
|     |        |        |       |       |       |        |        |        |        |        |        |        |        |          |          |
|     |        |        |       |       |       |        |        |        |        |        |        |        |        |          |          |

Değerler milimetre olarak verilmiştir.

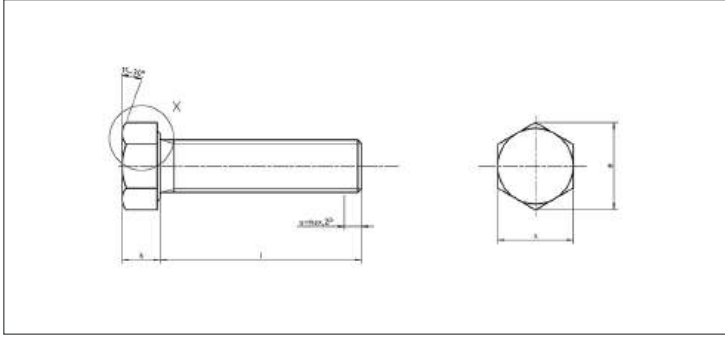
Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX ALTİKÖŞE BAŞLI METRİK DİŞ TAM PASO CIVATA

HEXAGON HEAD BOLT METRIC FULL THREAD

SECHSKANTSCHRAUBE MIT GEWINDE BIS KOPF



| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| 4017                                                                                                             | 5739 | 933<br>A2/A4             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

| TEKNİK BİLGİLER |         |     | TECHNICAL INFORMATION |      |      |       |       |       |       | TECHNISCHE INFORMATION |       |       |       |       |       |       |
|-----------------|---------|-----|-----------------------|------|------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|-------|
| d               |         |     | M3                    | M4   | M5   | M6    | M8    | M10   | M12   | M14                    | M16   | M18   | M20   | M22   | M27   | M30   |
| p               |         |     | 0,5                   | 0,7  | 0,8  | 1     | 1,25  | 1,5   | 1,75  | 2                      | 2     | 2,5   | 2,5   | 2,5   | 3     | 3,5   |
| s               | max     |     | 5,5                   | 7    | 8    | 10    | 13    | 17    | 19    | 22                     | 24    | 27    | 30    | 32    | 41    | 46    |
|                 | Grade A | min | 5,32                  | 6,78 | 7,78 | 9,78  | 12,73 | 16,73 | 18,67 | 21,67                  | 23,67 | 26,67 | 29,67 | 31,61 |       |       |
|                 | Grade B | min |                       | 6,64 | 7,64 | 9,64  | 12,57 | 16,57 | 18,48 | 21,16                  | 23,16 | 26,15 | 29,16 | 31    | 40    | 45    |
| k               | nominal |     | 2                     | 2,8  | 3,5  | 4     | 5,3   | 6,4   | 7,5   | 8,8                    | 10    | 11,5  | 12,5  | 14    | 17    | 18,7  |
|                 | Grade A | max | 2,12                  | 2,92 | 3,65 | 4,15  | 5,45  | 6,56  | 7,68  | 8,98                   | 10,18 | 11,72 | 12,72 | 14,22 |       |       |
|                 |         | min | 1,88                  | 2,68 | 3,35 | 3,85  | 5,15  | 6,22  | 7,32  | 8,62                   | 9,82  | 11,28 | 12,28 | 13,78 |       |       |
|                 | Grade B | max |                       | 3,00 | 3,74 | 4,24  | 5,54  | 6,69  | 7,79  | 9,09                   | 10,29 | 11,85 | 12,85 | 14,35 | 17,35 | 19,12 |
|                 |         | min |                       | 2,6  | 3,26 | 3,76  | 5,06  | 6,11  | 7,21  | 8,51                   | 9,71  | 11,15 | 12,15 | 13,65 | 16,65 | 18,28 |
| e               | Grade A | min | 6,01                  | 7,66 | 8,79 | 11,05 | 14,38 | 18,9  | 21,10 | 24,49                  | 26,75 | 30,14 | 33,53 | 35,72 |       |       |
|                 | Grade B | min |                       | 7,50 | 8,63 | 10,89 | 14,20 | 18,72 | 20,88 | 23,91                  | 26,17 | 29,56 | 32,95 | 35,03 | 45,20 | 50,85 |

| l   | min    | max    | M3   | M4   | M5   | M6    | M8    | M10   | M12   | M14    | M16    | M18    | M20    | M22    | M27    | M30    |
|-----|--------|--------|------|------|------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 6   | 5,76   | 6,24   | 0,69 | 1,35 | 2,15 |       |       |       |       |        |        |        |        |        |        |        |
| 8   | 7,71   | 8,29   | 0,77 | 1,51 | 2,40 | 3,78  |       | 8,59  |       |        |        |        |        |        |        |        |
| 10  | 9,71   | 10,29  | 0,85 | 1,66 | 2,66 | 4,12  | 9,19  | 16,37 |       |        |        |        |        |        |        |        |
| 12  | 11,65  | 12,35  | 0,94 | 1,82 | 2,90 | 4,47  | 9,90  | 17,38 |       |        |        |        |        |        |        |        |
| 14  | 13,65  | 14,35  | 1,03 | 1,97 | 3,15 | 4,82  | 10,51 | 18,39 |       |        |        |        |        |        |        |        |
| 16  | 15,65  | 16,35  | 1,11 | 2,12 | 3,40 | 5,16  | 11,21 | 19,40 | 27,98 |        |        |        |        |        |        |        |
| 18  | 17,65  | 18,35  | 1,19 | 2,28 | 3,66 | 5,52  | 11,82 | 20,41 | 29,40 |        | 61,42  |        |        |        |        |        |
| 20  | 19,58  | 20,42  | 1,28 | 2,43 | 3,91 | 5,86  | 12,43 | 21,42 | 31,32 | 48,49  | 64,15  |        |        |        |        |        |
| 22  | 21,58  | 22,42  |      | 2,59 | 4,16 | 6,21  | 13,03 | 22,43 | 33,34 | 50,51  | 66,88  |        |        |        |        |        |
| 25  | 24,58  | 25,42  | 1,50 | 2,83 | 4,54 | 6,72  | 14,04 | 23,94 | 34,45 | 53,54  | 70,92  | 96,80  | 125,30 |        |        |        |
| 30  | 29,58  | 30,42  | 1,72 | 3,22 | 5,16 | 7,59  | 15,66 | 26,47 | 38,08 | 58,49  | 77,68  | 105,10 | 135,40 |        |        |        |
| 35  | 34,50  | 35,50  | 1,93 | 3,61 | 5,79 | 8,46  | 17,27 | 28,99 | 41,72 | 63,54  | 84,35  | 113,10 | 146,50 |        |        |        |
| 40  | 39,50  | 40,50  | 2,15 | 4,00 | 6,41 | 9,32  | 18,89 | 31,52 | 45,36 | 68,59  | 91,12  | 121,20 | 156,60 | 195,00 |        |        |
| 45  | 44,50  | 45,50  | 2,36 | 4,38 | 7,06 | 10,20 | 20,51 | 34,04 | 48,99 | 73,64  | 98,09  | 129,30 | 166,70 | 208,00 |        |        |
| 50  | 49,50  | 50,50  | 2,59 | 4,78 | 7,67 | 11,11 | 22,02 | 36,57 | 52,53 | 78,69  | 104,05 | 137,40 | 177,80 | 221,00 | 381,00 |        |
| 55  | 54,40  | 55,60  |      |      | 8,27 | 12,02 | 23,64 | 39,09 | 56,17 | 83,75  | 111,12 | 146,50 | 187,90 | 234,00 | 401,00 |        |
| 60  | 59,40  | 60,60  |      |      | 8,89 | 12,83 | 25,26 | 41,72 | 58,79 | 88,70  | 118,19 | 154,60 | 198,00 | 246,00 | 420,00 | 549,00 |
| 65  | 64,40  | 65,60  |      |      |      | 13,74 | 26,87 | 44,25 | 63,44 | 93,75  | 124,25 | 163,00 | 209,00 | 260,00 | 439,00 | 572,00 |
| 70  | 69,40  | 70,60  |      |      |      | 14,55 | 28,49 | 46,77 | 67,08 | 98,80  | 131,33 | 171,00 | 219,00 | 272,00 | 459,00 | 596,00 |
| 75  | 74,40  | 75,60  |      |      |      | 15,46 | 30,10 | 49,30 | 70,71 | 103,04 | 138,40 | 179,00 | 229,00 | 285,00 | 478,00 | 620,00 |
| 80  | 79,40  | 80,60  |      |      |      | 16,37 | 31,72 | 51,82 | 74,35 | 108,09 | 145,47 | 188,00 | 240,00 | 298,00 | 497,00 | 643,00 |
| 85  | 84,30  | 85,70  |      |      |      | 17,17 | 33,34 | 54,35 | 77,99 | 113,14 | 151,53 | 196,00 | 250,00 | 311,00 | 517,00 | 668,00 |
| 90  | 89,30  | 90,70  |      |      |      | 18,08 | 34,95 | 56,87 | 81,62 | 118,19 | 158,60 | 204,00 | 261,00 | 324,00 | 536,00 | 692,00 |
| 100 | 99,30  | 100,70 |      |      |      | 19,81 | 38,08 | 61,93 | 88,90 | 128,30 | 171,73 | 220,00 | 282,00 | 350,00 | 575,00 | 739,00 |
| 110 | 109,30 | 110,70 |      |      |      |       | 41,32 | 67,08 |       |        | 185,88 | 237,00 | 303,00 | 375,00 |        |        |
| 120 | 119,30 | 120,70 |      |      |      |       | 44,08 | 72,13 |       |        | 199,01 | 254,00 | 323,00 | 401,00 |        |        |
| 130 | 129,20 | 130,80 |      |      |      |       | 46,84 | 77,18 |       |        |        |        | 343,00 | 425,00 |        |        |
| 140 | 139,20 | 140,80 |      |      |      |       |       | 82,23 |       |        |        |        | 365,00 | 453,00 |        |        |
| 150 | 149,20 | 150,80 |      |      |      |       |       | 87,28 |       |        |        |        | 385,00 | 478,00 |        |        |
| 160 | 159,20 | 160,80 |      |      |      |       |       |       |       |        |        |        | 406,00 |        |        |        |

Değerler milimetre olarak verilmiştir.

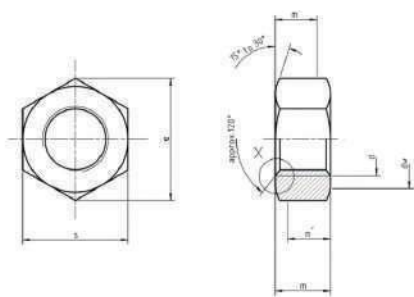
Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX ALTIKÖŞE SOMUN

## HEXAGON NUT

## SECHSKANTMUTTERN



| ISO                                                                                                              | UNI         | DIN                                    |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>4032</b> (coarse thread)<br><b>8673</b> (fine thread)                                                         | <b>5588</b> | <b>934</b><br><b>A2/A4</b>             |
| <b>4032</b>                                                                                                      | <b>5588</b> |                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.

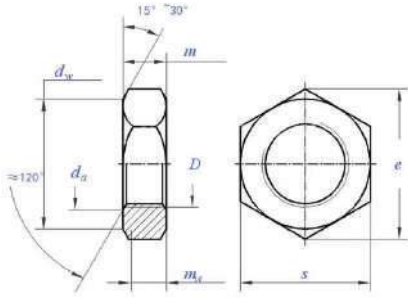
Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX INCE ALTİKÖŞE KONTRA SOMUN

HEXAGON THIN NUT

SECHSKANTMUTTERN NIEDRIG



**ISO**

**UNI**

**DIN**

**4035**

**5589**

**936  
A2/A4**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**ISO 3506-2  
UNI 3740-4  
ISO 4759-1**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

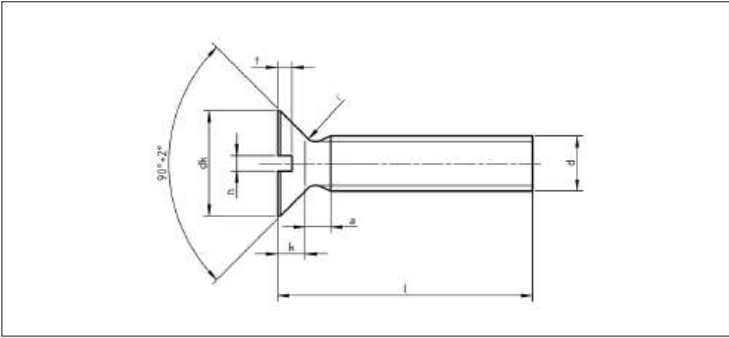
| d   | p   | s min | s max | m min | m max | e min | gr     |
|-----|-----|-------|-------|-------|-------|-------|--------|
| M3  | 0,5 |       | 5,5   |       | 2     | 6,01  | 0,26   |
| M4  | 0,7 |       | 7     |       | 2,8   | 7,66  | 0,51   |
| M5  | 0,8 |       | 8     |       | 3,5   | 8,79  | 0,77   |
| M6  | 1,0 |       | 10    |       | 4     | 11,05 | 1,50   |
| M7  | 1,0 |       | 11    |       | 4     | 12,12 | 2,28   |
| M8  | 1,0 | 12,73 | 13    | 4,7   | 5     | 14,38 | 4,15   |
| M8  | 1,3 | 12,73 | 13    | 4,7   | 5     | 14,38 | 4,05   |
| M10 | 1,0 | 16,73 | 17    | 5,7   | 6     | 18,9  | 8,60   |
| M10 | 1,3 | 16,73 | 17    | 5,7   | 6     | 18,9  | 8,60   |
| M10 | 1,5 | 16,73 | 17    | 5,7   | 6     | 18,9  | 8,70   |
| M12 | 1,3 | 18,67 | 19    | 6,64  | 7     | 21,1  | 12,04  |
| M12 | 1,5 | 18,67 | 19    | 6,64  | 7     | 21,1  | 12,04  |
| M12 | 1,8 | 18,67 | 19    | 6,64  | 7     | 21,1  | 12,25  |
| M14 | 1,5 | 21,67 | 22    | 7,42  | 8     | 24,49 | 18,01  |
| M14 | 2,0 | 21,67 | 22    | 7,42  | 8     | 24,49 | 18,42  |
| M16 | 1,5 | 23,67 | 24    | 7,42  | 8     | 26,75 | 19,84  |
| M16 | 2,0 | 23,67 | 24    | 7,42  | 8     | 26,75 | 20,34  |
| M18 | 1,5 | 26,16 | 27    | 8,42  | 9     | 29,56 | 28,64  |
| M18 | 2,5 | 26,16 | 27    | 8,42  | 9     | 29,56 | 30,00  |
| M20 | 1,5 | 29,16 | 30    | 8,1   | 9     | 32,95 | 35,42  |
| M20 | 2,5 | 29,16 | 30    | 8,1   | 9     | 32,95 | 36,70  |
| M22 | 1,5 | 31    | 32    | 9,1   | 10    | 35,03 | 42,50  |
| M22 | 2,5 | 31    | 32    | 9,1   | 10    | 35,03 | 44,30  |
| M24 | 2,0 | 35    | 36    | 9,1   | 10    | 39,55 | 56,47  |
| M24 | 3,0 | 35    | 36    | 9,1   | 10    | 39,55 | 58,70  |
| M27 | 2,0 | 40    | 41    | 10,9  | 12    | 45,2  | 88,04  |
| M27 | 3,0 | 40    | 41    | 10,9  | 12    | 45,2  | 91,10  |
| M30 | 2,0 | 45    | 46    | 10,9  | 12    | 50,85 | 111,30 |
| M30 | 3,5 | 45    | 46    | 10,9  | 12    | 50,85 | 111,30 |
| M33 | 2,0 | 49    | 50    | 12,9  | 14    | 55,37 | 151,80 |
| M33 | 3,5 | 49    | 50    | 12,9  | 14    | 55,37 | 156,90 |
| M36 | 3,0 | 53,8  | 55    | 12,9  | 14    | 60,79 | 189,20 |
| M36 | 4,0 | 53,8  | 55    | 12,9  | 14    | 60,79 | 192,30 |
| M39 | 3,0 | 58,8  | 60    | 14,9  | 16    | 66,44 | 257,00 |
| M39 | 4,0 | 58,8  | 60    | 14,9  | 16    | 66,44 | 263,10 |
| M42 | 3,0 | 63,1  | 65    | 14,9  | 16    | 71,3  | 304,00 |
| M42 | 4,5 | 63,1  | 65    | 14,9  | 16    | 71,3  | 311,00 |
| M45 | 4,5 | 68,1  | 70    | 16,9  | 18    | 76,95 | 405,00 |
| M48 | 5,0 | 73,1  | 75    | 16,9  | 18    | 82,6  | 466,00 |
| M52 | 5,0 | 78,1  | 80    | 18,7  | 20    | 88,25 | 587,00 |
| M56 | 5,5 |       | 85    |       | 22    | 93,56 | 719,00 |
|     |     |       |       |       |       |       |        |
|     |     |       |       |       |       |       |        |
|     |     |       |       |       |       |       |        |
|     |     |       |       |       |       |       |        |
|     |     |       |       |       |       |       |        |
|     |     |       |       |       |       |       |        |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX HAVŞA BAŞLI METRİK VİDA



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>2009</b>                                                                                                      | <b>6109</b> | <b>963<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-1</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |         | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |       |       |       |
|-----------------|---------|------------------------|------|------|------|------------------------|-------|-------|-------|
| d               |         | M2                     | M2,5 | M3   | M4   | M5                     | M6    | M8    | M10   |
| dk              | max     | 3,8                    | 4,7  | 5,6  | 7,5  | 9,2                    | 11    | 14,5  | 18    |
|                 | min     | 3,5                    | 4,4  | 5,3  | 7,14 | 8,84                   | 10,57 | 14,07 | 17,57 |
| k               | max     | 1,2                    | 1,5  | 1,65 | 2,2  | 2,5                    | 3     | 4     | 5     |
| n               | nomimal | 0,5                    | 0,6  | 0,8  | 1    | 1,2                    | 1,6   | 2     | 2,5   |
|                 | max     | 0,70                   | 0,80 | 1,00 | 1,20 | 1,51                   | 1,91  | 2,31  | 2,81  |
|                 | min     | 0,56                   | 0,66 | 0,86 | 1,06 | 1,26                   | 1,66  | 2,06  | 2,56  |
| t               | max     | 0,6                    | 0,7  | 0,85 | 1,1  | 1,3                    | 1,6   | 2,1   | 2,6   |
|                 | min     | 0,4                    | 0,5  | 0,6  | 0,8  | 1                      | 1,2   | 1,6   | 2     |
|                 |         |                        |      |      |      |                        |       |       |       |
|                 |         |                        |      |      |      |                        |       |       |       |
|                 |         |                        |      |      |      |                        |       |       |       |
|                 |         |                        |      |      |      |                        |       |       |       |
|                 |         |                        |      |      |      |                        |       |       |       |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

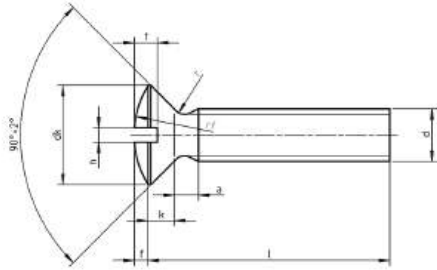
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# INOX MERCİMEK BAŞLI METRİK VİDA

## COUNTERSUNK SLOTTED RAISED HEAD SCREWS

## LINSENSENKSCRAUBEN MIT SCHLITZ



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>2010</b>                                                                                                      | <b>6110</b> | <b>964<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-1</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |         | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |       |       |       |
|-----------------|---------|------------------------|------|------|------|------------------------|-------|-------|-------|
| d               |         | M2                     | M2,5 | M3   | M4   | M5                     | M6    | M8    | M10   |
| dk              | max     | 3,8                    | 4,7  | 5,6  | 7,5  | 9,2                    | 11    | 14,5  | 18    |
|                 | min     | 3,5                    | 4,4  | 5,3  | 7,14 | 8,84                   | 10,57 | 14,07 | 17,57 |
| k               | max     | 1,2                    | 1,5  | 1,65 | 2,2  | 2,5                    | 3     | 4     | 5     |
| n               | nominal | 0,5                    | 0,6  | 0,8  | 1    | 1,2                    | 1,6   | 2     | 2,5   |
|                 | max     | 0,70                   | 0,80 | 1,00 | 1,20 | 1,51                   | 1,91  | 2,31  | 2,81  |
|                 | min     | 0,56                   | 0,66 | 0,86 | 1,06 | 1,26                   | 1,66  | 2,06  | 2,56  |
| t               | max     | 1,00                   | 1,20 | 1,45 | 1,90 | 2,30                   | 2,80  | 3,70  | 4,60  |
|                 | min     | 0,8                    | 1    | 1,2  | 1,6  | 2                      | 2,4   | 3,2   | 4     |
|                 |         |                        |      |      |      |                        |       |       |       |
|                 |         |                        |      |      |      |                        |       |       |       |
|                 |         |                        |      |      |      |                        |       |       |       |
|                 |         |                        |      |      |      |                        |       |       |       |

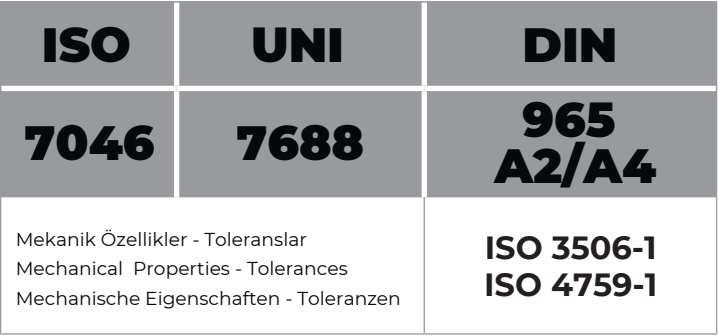
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

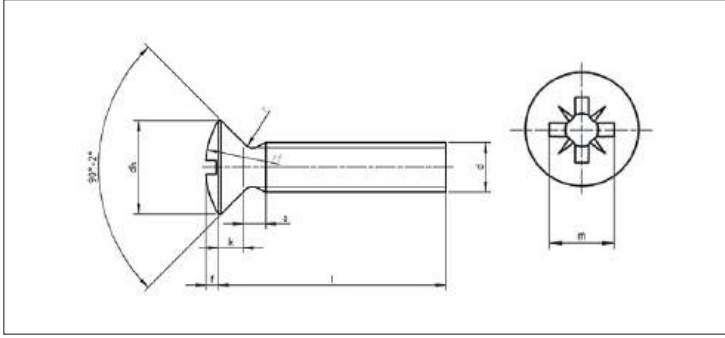
## SENKKOPFSCHRAUBE MIT KREUZ

[illegible]

# INOX YILDIZ MERCİMEK BAŞLI METRİK VİDA

CROSS RECESSED COUNTERSUNK RAISED HEAD SCREWS

LINSENSENKSCHUBEN MIT KREUZSCHLITZ



| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| 7047                                                                                                             | 7689 | 966<br>A2/A4             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                                        |                                 | M3   | M4   | M5   | M6    | M8    |
|------------------------------------------|---------------------------------|------|------|------|-------|-------|
| dk                                       | max                             | 5,6  | 7,5  | 9,2  | 11    | 14,5  |
|                                          | min                             | 5,3  | 7,14 | 8,84 | 10,57 | 14,07 |
| k                                        | max                             | 1,65 | 2,2  | 2,5  | 3     | 4     |
| Nº                                       | Phillips Recess No<br>PH Drv No | 1    | 2    |      | 3     | 4     |
| m                                        | ≈                               | 3,1  | 4,5  | 5,3  | 6,8   | 9     |
| Soket Derinliği H<br>Penetration Depth H | max                             | 2    | 2,54 | 3,27 | 3,53  | 4,68  |
|                                          | min                             | 1,7  | 2,04 | 2,77 | 3,03  | 4,18  |
|                                          |                                 |      |      |      |       |       |
|                                          |                                 |      |      |      |       |       |
|                                          |                                 |      |      |      |       |       |
|                                          |                                 |      |      |      |       |       |

| l   | min   | max   | M3   | M4   | M5   | M6    | M8    |
|-----|-------|-------|------|------|------|-------|-------|
| 4   | 3,75  | 4,25  | 0,36 |      |      |       |       |
| 5   | 4,75  | 5,25  | 0,41 | 1,02 |      |       |       |
| 6   | 5,75  | 6,25  | 0,45 | 1,10 | 1,53 |       |       |
| 8   | 7,70  | 8,30  | 0,54 | 1,26 | 1,79 | 2,87  |       |
| 10  | 9,70  | 10,30 | 0,63 | 1,43 | 2,02 | 3,22  | 7,08  |
| 12  | 11,65 | 12,35 | 0,72 | 1,58 | 2,27 | 3,58  | 7,73  |
| 14  | 13,65 | 14,35 | 0,81 | 1,75 | 2,52 | 3,94  | 8,39  |
| 16  | 15,65 | 16,35 | 0,90 | 1,90 | 2,76 | 4,30  | 9,05  |
| 18  | 17,65 | 18,35 |      | 2,05 | 3,01 |       |       |
| 20  | 19,60 | 20,40 | 1,09 | 2,21 | 3,26 | 5,02  | 10,37 |
| 22  | 21,60 | 22,40 |      | 2,36 | 3,50 |       |       |
| 25  | 24,60 | 25,40 | 1,31 | 2,63 | 3,87 | 5,93  | 12,02 |
| 30  | 29,60 | 30,40 | 1,54 | 3,03 | 4,49 | 6,82  | 13,66 |
| 35  | 34,50 | 35,50 |      | 3,43 | 5,10 | 7,72  | 15,30 |
| 40  | 39,50 | 40,50 |      | 3,83 | 5,72 | 8,62  | 16,95 |
| 45  | 44,50 | 45,50 |      | 4,23 | 6,33 | 9,52  | 18,59 |
| 50  | 49,50 | 50,50 |      | 4,63 | 6,94 | 10,37 | 20,23 |
| 55  | 54,00 | 56,00 |      |      | 7,56 | 11,30 | 21,88 |
| 60  | 59,00 | 61,00 |      |      | 8,17 | 12,22 | 23,52 |
| 65  | 64,00 | 66,00 |      |      | 8,79 | 13,11 |       |
| 70  | 69,00 | 71,00 |      |      | 9,41 | 14,01 |       |
| 80  | 79,00 | 81,00 |      |      |      | 15,82 |       |
| 90  |       |       |      |      |      | 17,63 |       |
| 100 |       |       |      |      |      | 19,43 |       |
|     |       |       |      |      |      |       |       |
|     |       |       |      |      |      |       |       |
|     |       |       |      |      |      |       |       |
|     |       |       |      |      |      |       |       |
|     |       |       |      |      |      |       |       |
|     |       |       |      |      |      |       |       |
|     |       |       |      |      |      |       |       |
|     |       |       |      |      |      |       |       |

Değerler milimetre olarak verilmiştir.

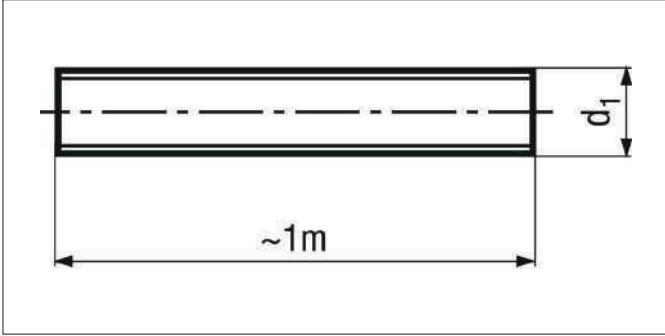
Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX GIJON

## THREADAD RODS

## GEWINDESTANGE



| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 6547 | 975<br>A2/A4             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-1<br>ISO 4759-1 |

| TEKNIK BİLGİLER |      |      |       | TECHNICAL INFORMATION |       |       |       | TECHNISCHE INFORMATION |        |        |        |        |        |
|-----------------|------|------|-------|-----------------------|-------|-------|-------|------------------------|--------|--------|--------|--------|--------|
| d               | M3   | M4   | M5    | M6                    | M8    | M10   | M12   | M14                    | M16    | M18    | M20    | M22    | M24    |
| p               | 0,50 | 0,50 | 0,80  | 1,00                  | 1,25  | 1,50  | 1,75  | 2,00                   | 2,00   | 2,50   | 2,50   | 2,50   | 3,00   |
| gr              | 44,5 | 78,9 | 125,5 | 179,1                 | 313,7 | 496,9 | 720,5 | 986,7                  | 1325,7 | 1646,5 | 2076,6 | 2556,3 | 2991,5 |

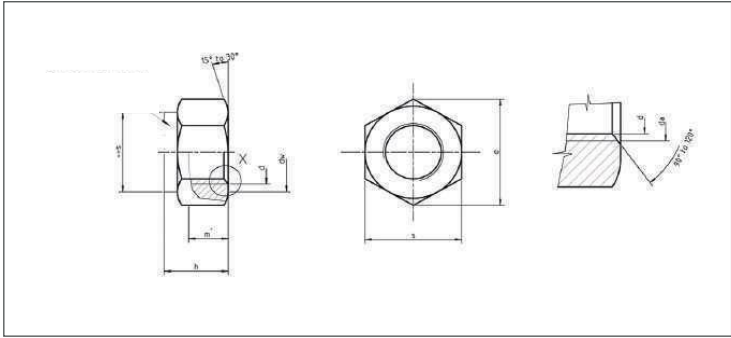
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX ALTİKÖŞE YÜKSEK FİBERLİ SOMUN



|                                                                                                                  |             |                                                             |
|------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                                                  |
| <b>7040</b>                                                                                                      | <b>7473</b> | <b>982<br/>A2/A4</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

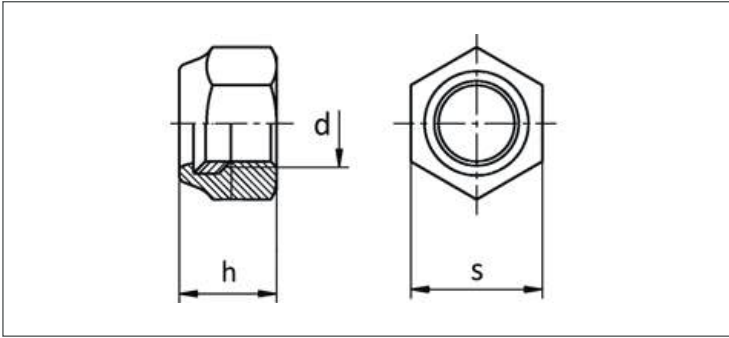
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX ALTİKÖŞE FİBERLİ SOMUN

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| HEXAGON NYLON INSERT NUT | SECHSKANTMUTTERN MIT NICHTMETALLISCHEM KLEMMTEIL |
|--------------------------|--------------------------------------------------|

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| HEXAGON NYLON INSERT NUT | SECHSKANTMUTTERN MIT NICHTMETALLISCHEM KLEMMTEIL |
|--------------------------|--------------------------------------------------|



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>10511</b>                                                                                                     | <b>7474</b> | <b>985<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>10511</b>                                                                                                     | <b>7474</b> | <b>985<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>10511</b>                                                                                                     | <b>7474</b> | <b>985<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>10511</b>                                                                                                     | <b>7474</b> | <b>985<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>10511</b>                                                                                                     | <b>7474</b> | <b>985<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>10511</b>                                                                                                     | <b>7474</b> | <b>985<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>10511</b>                                                                                                     | <b>7474</b> | <b>985<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>10511</b>                                                                                                     | <b>7474</b> | <b>985<br/>A2/A4</b>                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-2</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

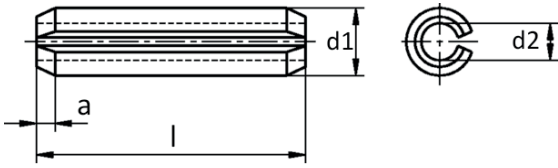
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX YARIKLI PİM

## HEAVY DUTY SPRING PINS

## SPANNSTIFTE



|                                                                                                                  |             |                                      |
|------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                           |
| <b>8752</b>                                                                                                      | <b>6873</b> | <b>1481<br/>A2/A4</b>                |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b><br><b>UNI 6830</b> |

| TEKNİK BİLGİLER |     |      | TECHNICAL INFORMATIONS |      |      |      |      | TECHNISCHE INFORMATION |      |      |       |
|-----------------|-----|------|------------------------|------|------|------|------|------------------------|------|------|-------|
| d               |     | 1,5  | 2                      | 2,5  | 3    | 3,5  | 4    | 5                      | 6    | 8    | 10    |
| d1              | max | 1,80 | 2,40                   | 2,90 | 3,50 | 4,00 | 4,60 | 5,60                   | 6,70 | 8,80 | 10,80 |
|                 | min | 1,7  | 2,3                    | 2,8  | 3,3  | 3,8  | 4,4  | 5,4                    | 6,4  | 8,50 | 10,50 |
| d2              | ≈   | 1,10 | 1,50                   | 1,80 | 2,10 | 2,30 | 2,80 | 3,40                   | 3,9  | 5,5  | 6,50  |
| s               | ≈   | 0,30 | 0,40                   | 0,50 | 0,60 | 0,75 | 0,80 | 1,00                   | 1,25 | 1,50 | 2,00  |
| a               | ≈   | 0,25 | 0,35                   | 0,40 | 0,50 | 0,60 | 0,65 | 0,90                   | 1,20 | 2,00 | 2,00  |

[illegible]

Değerler milimetre olarak verilmiştir.

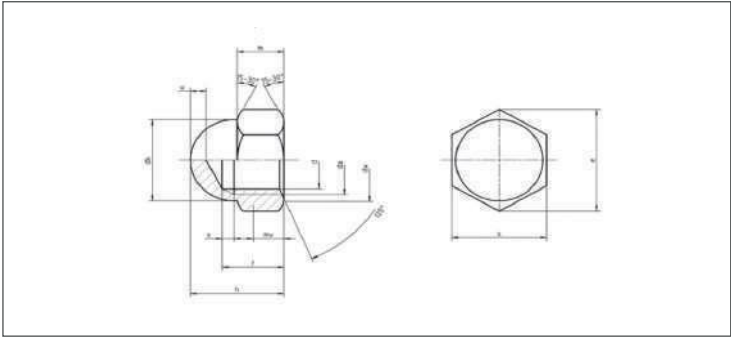
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX KÖR SOMUN

HEX DOMED CAP NUT SECHSKANT HUTMUTTERN

HEX DOMED CAP NUT SECHSKANT HUTMUTTERN



| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| -                                                                                                                | 5721 | 1587<br>A2/A4            |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-2<br>ISO 4759-1 |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

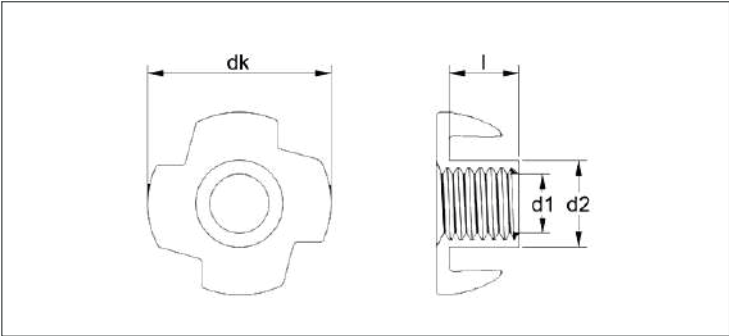
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX AĞAÇ SOMUN

TEE NUTS HOLZMUTTERN

TEE NUTS HOLZMUTTERN



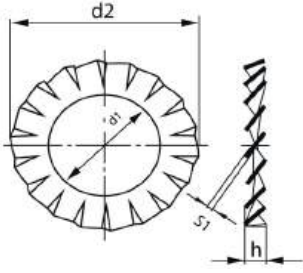
| ISO                                                                                                              | UNI | DIN                                                      |
|------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------|
| <b>EN 10230-1</b>                                                                                                | -   | <b>1624 A2/A4</b>                                        |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>DIN 267</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

## INOX TIRTIKLI RONDELA

## SERRATED SPRING WASHERS

## EDELSTAHL FAECHERSCHEIBE



| ISO                                                                                                              | UNI  | DIN             |
|------------------------------------------------------------------------------------------------------------------|------|-----------------|
| -                                                                                                                | 8842 | 6798 A<br>A2/A4 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-3      |

[illegible]

Değerler milimetre olarak verilmiştir.

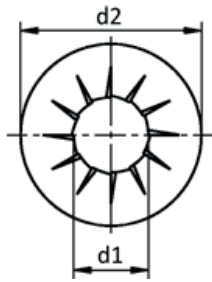
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX TIRTIKLI RONDELA

## SERRATED SPRING WASHERS

EDELSTAHL FAECHERSCHEIBE



|                                                                                                                  |             |                         |
|------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>              |
| <b>-</b>                                                                                                         | <b>8842</b> | <b>6798 J<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>       |

[illegible]

Değerler milimetre olarak verilmiştir.

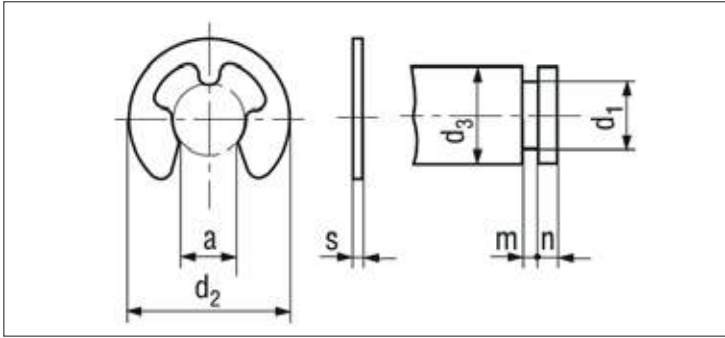
Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX AY SEGMAN

## RADIAL CIRCLIPS FOR SHAFTS

## SICHERUNGSSCHEIBE FÜR WELLEN



|                                                                                                                  |             |                       |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>            |
| <b>-</b>                                                                                                         | <b>7434</b> | <b>6799<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-3</b>     |

[illegible]

Değerler milimetre olarak verilmiştir.

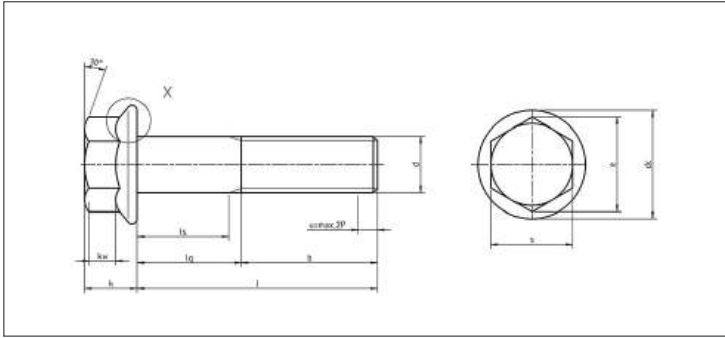
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX ALTİKÖŞE BAŞLI FLANŞLI CIVATA

## HEXAGON HEAD FLANGE BOLTS

## SECHSKANTSCHRAUBE MIT FLANSCH



|                                                                                                                  |            |                                        |
|------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>                             |
| <b>1665</b>                                                                                                      | <b>-</b>   | <b>6921<br/>A2/A4</b>                  |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>ISO 3506-1</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER |                      | TECHNICAL INFORMATIONS |       |       | TECHNISCHE INFORMATION |       |
|-----------------|----------------------|------------------------|-------|-------|------------------------|-------|
| d               |                      | M5                     | M6    | M8    | M10                    | M12   |
| p               |                      | 0,8                    | 1     | 1,25  | 1,5                    | 1,75  |
| s               | max                  | 8                      | 10    | 13    | 15                     | 16    |
|                 | min                  | 7,78                   | 9,78  | 12,73 | 14,73                  | 15,73 |
| e               | max                  | 8,71                   | 10,95 | 14,26 | 16,5                   | 17,62 |
| k               | max                  | 5,4                    | 6,6   | 8,1   | 9,2                    | 11,5  |
| dc              | max                  | 11,8                   | 14,2  | 18    | 22,3                   | 26,6  |
| b               | l ≤ 125              | 16                     | 18    | 22    | 26                     | 30    |
|                 | l >125 (125<l ≤ 200) |                        |       | 28    | 32                     | 36    |
|                 | l > 200              |                        |       |       |                        |       |
|                 |                      |                        |       |       |                        |       |
|                 |                      |                        |       |       |                        |       |

[illegible]

Değerler milimetre olarak verilmiştir.

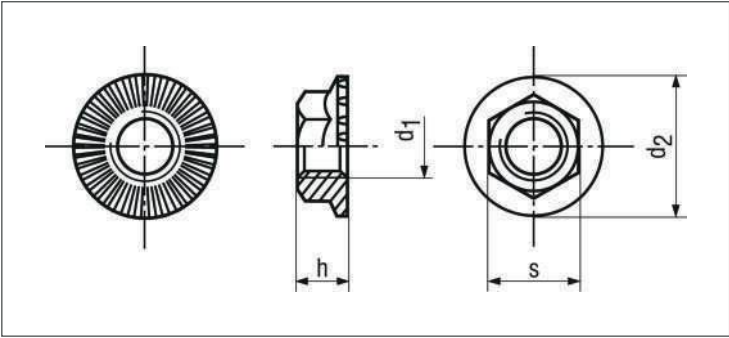
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX ALTIKÖŞE FLANŞLI SOMUN

HEXAGON FLANGE NUT SECHSKANTMUTTERN MIT FLANSCH

HEXAGON FLANGE NUT SECHSKANTMUTTERN MIT FLANSCH



| ISO                                                                                                              | UNI      | DIN                                                         |
|------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------|
| <b>4161</b>                                                                                                      | <b>-</b> | <b>6923<br/>A2/A4</b>                                       |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |          | <b>ISO 3506-2</b><br><b>UNI 3740-4</b><br><b>ISO 4759-1</b> |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

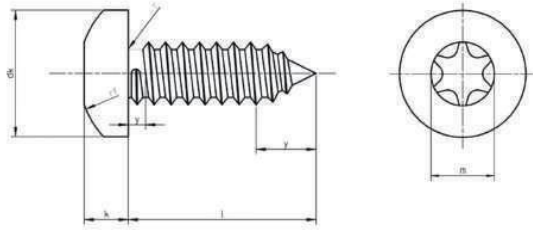
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.



## INOX YILDIZ SİLİNDİR BAŞLI SAÇ VİDASI

## PHILLIPS PAN HEAD SELF TAPPING SCREWS

## LINSENKOPF-BLECHSCHRAUBE KREUZ



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>7049</b>                                                                                                      | <b>6954</b> | <b>7981<br/>A2/A4</b>                  |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-4</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER                          |                                | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |      |       |       |
|------------------------------------------|--------------------------------|------------------------|------|------|------|------------------------|------|-------|-------|
| d                                        |                                | 2,2                    | 2,9  | 3,5  | 3,9  | 4,2                    | 4,8  | 5,5   | 6,3   |
| dk                                       | max                            | 4,2                    | 5,60 | 6,90 | 7,5  | 8,2                    | 9,5  | 10,8  | 12,5  |
|                                          | min                            | 3,9                    | 5,3  | 6,54 | 7,14 | 7,84                   | 9,14 | 10,37 | 12,07 |
| k                                        | max                            | 1,8                    | 2,20 | 2,6  | 2,8  | 3,05                   | 3,55 | 3,95  | 4,55  |
|                                          | min                            | 1,55                   | 1,95 | 2,35 | 2,55 | 2,75                   | 3,25 | 3,65  | 4,25  |
| r                                        | max                            | 0,30                   | 0,40 | 0,50 | 0,5  | 0,60                   | 0,7  | 0,8   | 0,9   |
| rf                                       | ≈                              | 3,40                   | 4,40 | 5,40 | 5,8  | 6,2                    | 7,20 | 8,20  | 9,50  |
| Nº                                       | Phillips Recess No<br>PH Drv N | 1                      |      | 2    |      |                        |      | 3     |       |
| m                                        | ≈                              | 2,6                    | 3    | 4,2  | 4,4  | 4,8                    | 5    | 6,5   | 7,1   |
| Soket Derinliği H<br>Penetration Depth H | max                            | 1,32                   | 1,8  | 2,03 | 2,28 | 2,46                   | 2,87 | 3,15  | 6,7   |
|                                          | min                            | 0,86                   | 1,35 | 1,4  | 1,63 | 1,8                    | 2,26 | 2,49  | 3,66  |

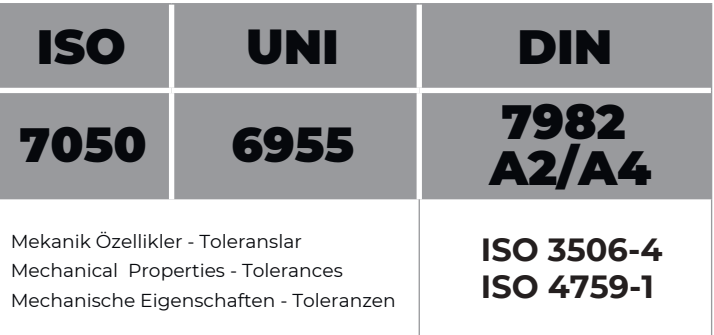
[illegible]

Değerler milimetre olarak verilmiştir.

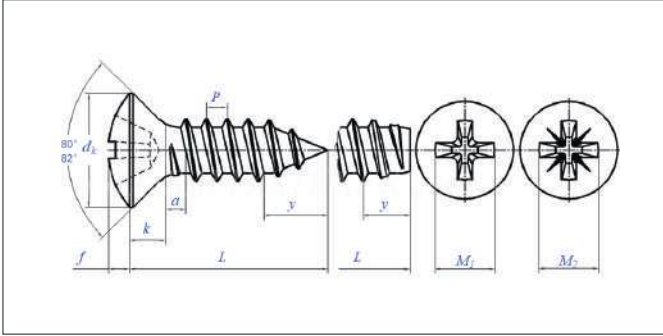
Values are given in millimeters.

Werte sind in millimetern angegeben.

## SENK-BLECKSCHRAUBE MIT KREUZSCHLITZ

[illegible]

## INOX YILDIZ MERCİMEK BAŞLI SAÇ VİDASI



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>7051</b>                                                                                                      | <b>6956</b> | <b>7983<br/>A2/A4</b>                  |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-4</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |     |      |      |
|------------------------------------------|---------------------------------|------------------------|------|------|------|------------------------|-----|------|------|
| d                                        |                                 | 2,2                    | 2,9  | 3,5  | 3,9  | 4,2                    | 4,8 | 5,5  | 6,3  |
| dk                                       | max                             | 4,3                    | 5,5  | 6,8  | 7,5  | 8,1                    | 9,5 | 10,8 | 12,4 |
| f                                        | ≈                               | 0,7                    | 0,9  | 1,2  | 1,3  | 1,4                    | 1,5 | 1,7  | 2    |
| k                                        | ≈                               | 1,3                    | 1,7  | 2,1  | 2,3  | 2,5                    | 3   | 3,4  | 3,8  |
| r                                        | max                             | 0,8                    | 1,1  | 1,4  | 1,5  | 1,6                    | 1,9 | 2,1  | 2,4  |
| rf                                       | ≈                               | 3,8                    | 4,6  | 5,4  | 6    | 6,6                    | 8,2 | 9,4  | 11,1 |
| Nº                                       | Phillips Recess No<br>PH Drv No | 1                      |      | 2    |      |                        | 3   |      |      |
| m                                        | ≈                               | 2,8                    | 3,4  | 4,6  | 4,7  | 4,9                    | 5,4 | 7    | 7,4  |
| Soket Derinliği H<br>Penetration Depth H | max                             | 1,57                   | 2,21 | 2,39 | 2,54 | 2,74                   | 3,2 | 3,53 | 3,96 |
|                                          | min                             | 1,17                   | 1,81 | 1,89 | 2,04 | 2,24                   | 2,7 | 3,02 | 3,46 |
|                                          |                                 |                        |      |      |      |                        |     |      |      |
|                                          |                                 |                        |      |      |      |                        |     |      |      |
|                                          |                                 |                        |      |      |      |                        |     |      |      |

[illegible]

Değerler milimetre olarak verilmiştir.

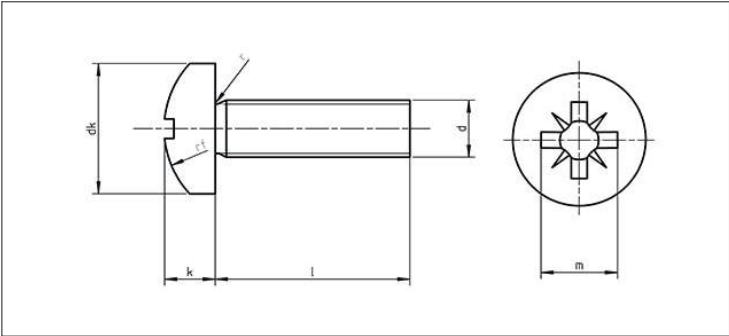
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX YILDIZ SİLİNDİR BAŞLI METRİK VİDA

CROSS RECESSED PAN HEAD SCREWS

CROSS RECESSED PAN HEAD SCREWS



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>7045</b>                                                                                                      | <b>7687</b> | <b>7985<br/>A2/A4</b>                  |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-1</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |       |       |
|------------------------------------------|---------------------------------|------------------------|------|------|------|------------------------|-------|-------|
| d                                        |                                 | M2                     | M2,5 | M3   | M4   | M5                     | M6    | M8    |
| dk                                       | max                             | 4                      | 5    | 6    | 8    | 10                     | 12    | 16    |
|                                          | min                             | 3,7                    | 4,7  | 5,7  | 7,64 | 9,64                   | 11,57 | 15,57 |
| k                                        | nominal                         | 1,6                    | 2    | 2,4  | 3,1  | 3,8                    | 4,6   | 6     |
|                                          | max                             | 1,72                   | 2,12 | 2,52 | 3,25 | 3,95                   | 4,75  | 6,15  |
|                                          | min                             | 1,48                   | 1,88 | 2,28 | 2,95 | 3,65                   | 4,45  | 5,85  |
| Nº                                       | Phillips Recess No<br>PH Drv No | 1                      |      |      | 2    |                        | 3     | 4     |
| m                                        | ≈                               | 2,5                    | 2,7  | 3,1  | 4,6  | 5,3                    | 6,8   | 9     |
| Soket Derinliği H<br>Penetration Depth H | max                             | 1,4                    | 1,6  | 2    | 2,54 | 3,27                   | 3,53  | 4,68  |
|                                          | min                             | 1,1                    | 1,3  | 1,7  | 2,04 | 2,77                   | 3,03  | 4,18  |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

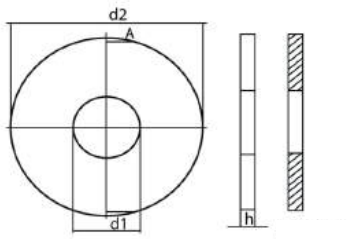
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.



## INOX GENİŞ PUL

## WIDE FLAT WASHERS

SCHEIBEN AUBENDURCHCHMESSER



# ISO

**7093**  
**7094\***

**UNI**

6593

# DIN

**9021  
A2/A4**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI 6602**  
**ISO 4759-3**

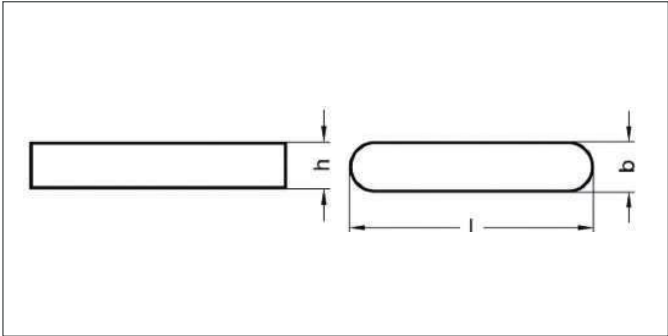
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX DÜZ KAMA



|                                                                                                                  |               |                        |
|------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>    | <b>DIN</b>             |
| <b>R773</b>                                                                                                      | <b>6604/A</b> | <b>6885A<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |               | <b>ISO 3506-3</b>      |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

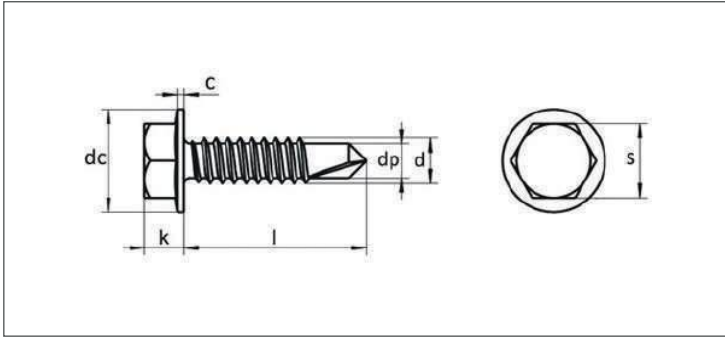
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX ALTİKÖŞE PUL BAŞLI MATKAP UÇLU VİDA

## HEXAGON WASHER HEAD SELF DRILLING SCREW

## SECHSKANT-SELBSTBOHRENDE SCHRAUBE MIT BUND



|                                                                                                                  |             |                                        |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b>                             |
| <b>15480</b>                                                                                                     | <b>8117</b> | <b>7504K<br/>A2/A4</b>                 |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             | <b>ISO 3506-4</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER                          |                            | TECHNICAL INFORMATIONS |      |      | TECHNISCHE INFORMATION |      |      |
|------------------------------------------|----------------------------|------------------------|------|------|------------------------|------|------|
| d                                        |                            | 3,5                    | 3,9  | 4,2  | 4,8                    | 5,5  | 6,3  |
| K                                        | max                        | 3,4                    | 3,45 | 4,1  | 4,3                    | 5,4  | 5,9  |
|                                          | min                        | 3                      | 3,2  | 3,6  | 3,8                    | 4,8  | 5,3  |
| dk                                       | max                        | 8,3                    | 8,3  | 8,8  | 10,5                   | 11   | 13,5 |
|                                          | min                        | 7,6                    | 7,6  | 8,1  | 9,8                    | 10   | 12,2 |
| c                                        | min                        | 0,6                    | 0,6  | 0,8  | 0,9                    | 1    | 1    |
| Nº                                       | NST Recess No<br>MG Drv No | 5,5                    | 5,5  | 7    | 8                      | 8    | 10   |
| s                                        | max                        | 5,5                    | 5,5  | 7    | 8                      | 8    | 10   |
|                                          | min                        | 5,32                   | 5,32 | 6,78 | 7,78                   | 7,78 | 9,78 |
| Plaka/Levha Kalınlığı<br>Steel Thickness | max                        | 2,25                   | 2,40 | 3    | 4,4                    | 5,25 | 6    |
|                                          | min                        | 0,7                    | 1    | 1,75 | 1,75                   | 1,75 | 2    |

[illegible]

Değerler milimetre olarak verilmiştir.

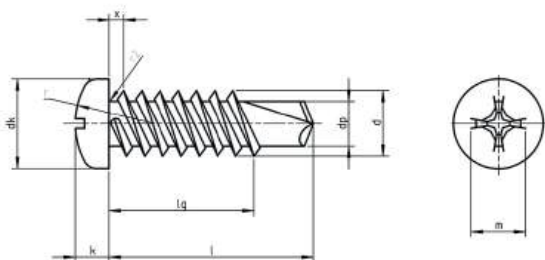
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX YILDIZ SİLİNDİR BAŞLI MATKAP UÇLU VİDA

## CROSS RECESSED PAN HEAD SELF DRILLING SCREW

## SELBSTBOHRENDE SCHRAUBE MIT LINSENKOPF



| ISO                                                                                                              | UNI  | DIN                      |
|------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| 15481                                                                                                            | 8118 | 7504N<br>A2/A4           |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | ISO 3506-4<br>ISO 4759-1 |

| TEKNİK BİLGİLER                          |                                 | TECHNICAL INFORMATIONS |      |      |      | TECHNISCHE INFORMATION |       |       |
|------------------------------------------|---------------------------------|------------------------|------|------|------|------------------------|-------|-------|
| d                                        |                                 | 2,9                    | 3,5  | 3,9  | 4,2  | 4,8                    | 5,5   | 6,3   |
| k                                        | max                             | 2,4                    | 2,6  | 3,1  | 3,1  | 3,7                    | 4     | 4,6   |
|                                          | min                             | 2,15                   | 2,35 | 2,8  | 2,8  | 3,4                    | 3,7   | 4,3   |
| dk                                       | max                             | 5,6                    | 7    | 7,5  | 8    | 9,5                    | 11    | 12    |
|                                          | min                             | 5,3                    | 6,64 | 7,14 | 7,64 | 9,14                   | 10,57 | 11,57 |
| Nº                                       | Phillips Recess No<br>PH Drv No | 1                      | 2    |      |      |                        | 3     |       |
| m                                        | ≈                               | 3                      | 3,9  | 4,2  | 4,4  | 4,9                    | 6,4   | 6,9   |
| Soket Derinliği H<br>Penetration Depth H | max                             | 1,8                    | 1,9  | 2,4  | 2,4  | 2,9                    | 3,1   | 3,6   |
|                                          | min                             | 1,4                    | 1,4  | 1,9  | 1,9  | 2,4                    | 2,6   | 3,1   |
| Plaka/Levha Kalınlığı<br>Steel Thickness | max                             | 1,9                    | 2,25 | 2,65 | 3    | 4,4                    | 5,25  | 6     |
|                                          | min                             | 0,7                    | 0,7  | 1    | 1,75 | 1,75                   | 1,75  | 2     |

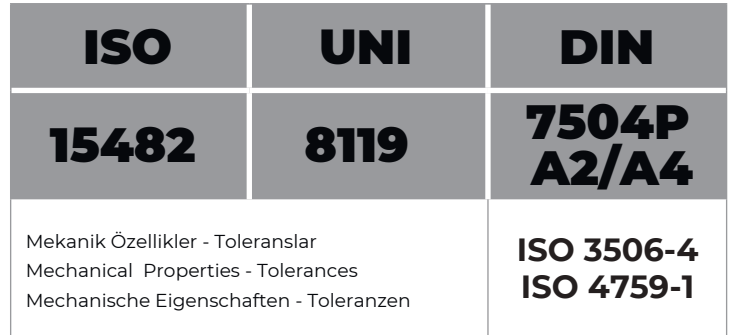
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## SENKKOPFSCHRAUBE MIT KREUZ

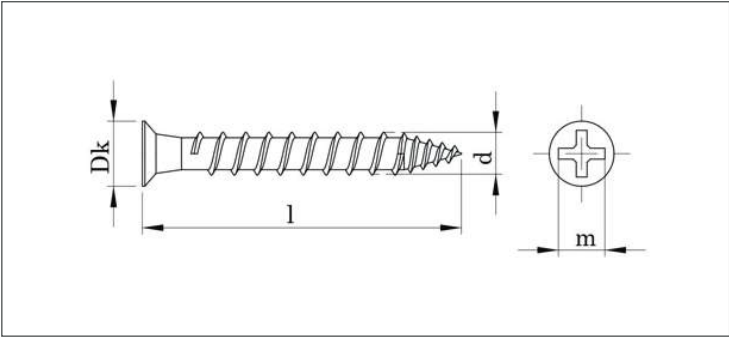
[illegible]

Werte sind in millimetern angegeben.

## INOX SUNTA VİDASI

POZI FLAT HEAD CHIPBOARD SCREWS POZI-FLACHKOPF-SPANPLATTENSCHRAUBE

POZI FLAT HEAD CHIPBOARD SCREWS POZI-FLACHKOPF-SPANPLATTENSCHRAUBE



| ISO                                                                                                              | UNI | DIN                                    |
|------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------|
| -                                                                                                                | -   | <b>7505 A<br/>A2/A4</b>                |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-4</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER                          |                             | TECHNICAL INFORMATIONS |      |      | TECHNISCHE INFORMATION |      |       |
|------------------------------------------|-----------------------------|------------------------|------|------|------------------------|------|-------|
| d                                        |                             | 3                      | 3,5  | 4    | 4,5                    | 5    | 6     |
| dk                                       | max                         | 2                      | 7    | 8,0  | 9                      | 10   | 12    |
|                                          | min                         | 5,7                    | 6,64 | 7,64 | 8,64                   | 9,64 | 11,57 |
| k                                        | max                         | 1,8                    | 2    | 2,35 | 2,55                   | 2,85 | 3,35  |
| a                                        | max                         | 2,35                   | 2,6  | 2,8  | 3                      | 3,2  | 3,6   |
| r                                        | ≈                           | 1,5                    | 1,8  | 2    | 2                      | 2,5  | 2,5   |
| Nº                                       | Pozi Recess No<br>PZ Drv No | 1                      | 2    |      |                        |      | 3     |
| m                                        | ≈                           | 3                      | 4    | 4,4  | 4,8                    | 5,3  | 6,6   |
| Soket Derinliği Z<br>Penetration Depth Z | max                         | 2,01                   | 2,06 | 2,51 | 2,92                   | 3,45 | 3,45  |
|                                          | min                         | 1,6                    | 1,76 | 2,05 | 2,46                   | 2,99 | 2,99  |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

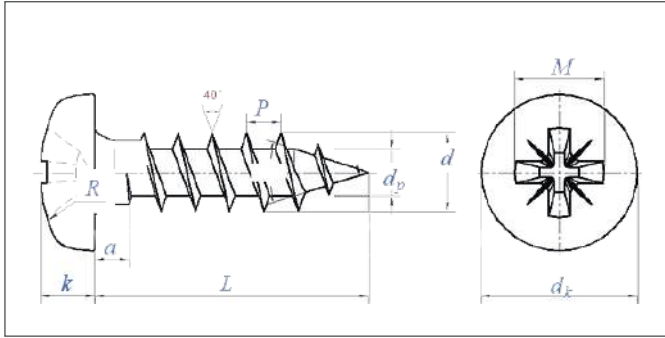
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

## INOX POZİ BOMBE BAŞLI SUNTA VİDASI

## POZI PAN HEAD CHIPBOARD SCREWS

## POZI-PAN-KOPF-SPANPLATTENSCHRAUBEN



| ISO                                                                                                              | UNI | DIN                                    |
|------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------|
| -                                                                                                                | -   | <b>7505 B<br/>A2/A4</b>                |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | <b>ISO 3506-4</b><br><b>ISO 4759-1</b> |

| TEKNİK BİLGİLER                          |                             | TECHNICAL INFORMATIONS |      |      | TECHNISCHE INFORMATION |      |       |
|------------------------------------------|-----------------------------|------------------------|------|------|------------------------|------|-------|
| d                                        |                             | 3                      | 3,5  | 4    | 4,5                    | 5    | 6     |
| dk                                       | max                         | 6                      | 7    | 8    | 9                      | 10   | 12    |
|                                          | min                         | 5,52                   | 6,42 | 7,42 | 8,42                   | 9,42 | 11,3  |
| k                                        | max                         | 2,37                   | 2,72 | 2,92 | 3,15                   | 3,65 | 4,25  |
|                                          | min                         | 2,13                   | 2,48 | 2,68 | 2,85                   | 3,35 | 3,95  |
| r1                                       | ≈                           | 6                      | 7    | 8    | 9                      | 10   | 10,84 |
| b (a)                                    | max                         | 1,35                   | 1,6  | 1,8  | 2                      | 2,2  | 1,75  |
| Nº                                       | Pozi Recess No<br>PZ Drv No | 1                      | 2    |      |                        |      | 3     |
| m                                        | ≈                           | 3,12                   | 3,81 | 4,65 | 5                      | 5,28 | 6,63  |
| Soket Derinliği Z<br>Penetration Depth Z | max                         | 1,93                   | 2,11 | 2,36 | 3,1                    | 3,1  | 3,48  |
|                                          | min                         | 1,68                   | 1,65 | 1,9  | 2,64                   | 2,64 | 3,02  |

[illegible]

Değerler milimetre olarak verilmiştir.

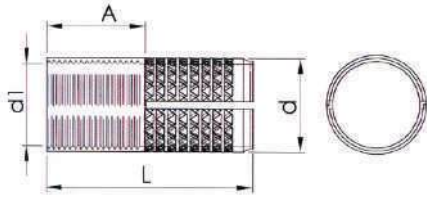
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX ÇAKMA DÜBEL

## DROP IN ANCHOR

## EINSCHLAGANKER



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

Değerler milimetre olarak verilmiştir.

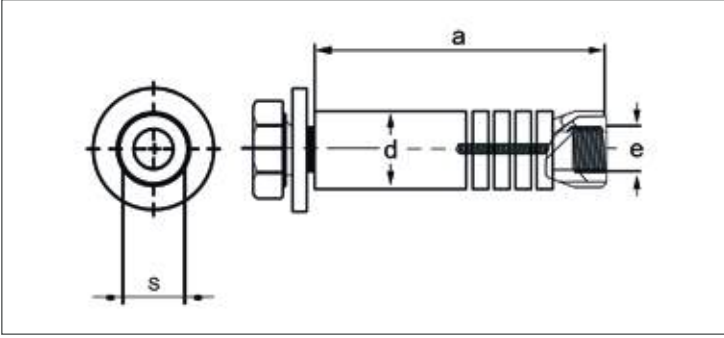
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX ÇEKME DÜBEL

## SLEEVE IN ANCHOR T TYPE

## HÜLSENANKER TYP T



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

Değerler milimetre olarak verilmiştir.

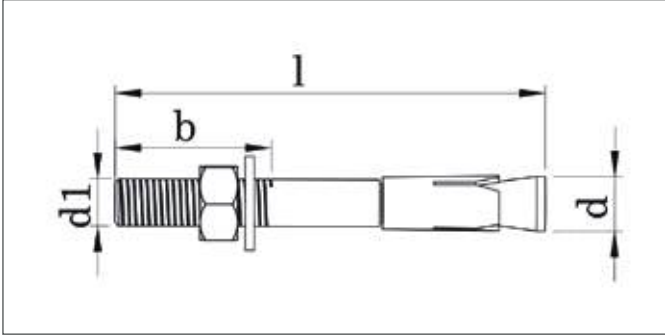
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX KLİPSLİ DÜBEL

## WEDGE IN ANCHOR

BOLZENANKER



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

Değerler milimetre olarak verilmiştir.

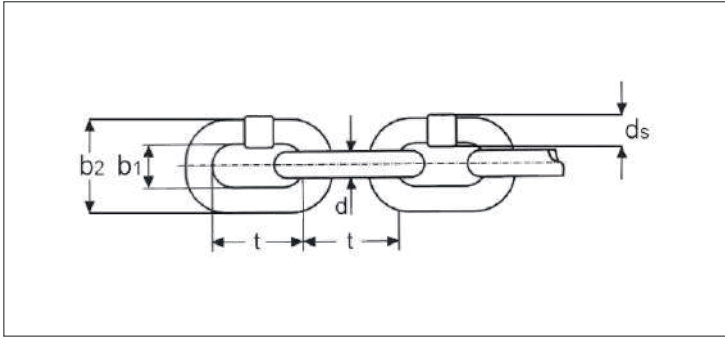
Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX ZİNCİR

CHAIN

## RUNDSTAHLKETTE



|                                                                                                                  |            |                       |
|------------------------------------------------------------------------------------------------------------------|------------|-----------------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b> | <b>DIN</b>            |
| <b>-</b>                                                                                                         | <b>-</b>   | <b>5685<br/>A2/A4</b> |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |            | <b>ISO 3506-3</b>     |

[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

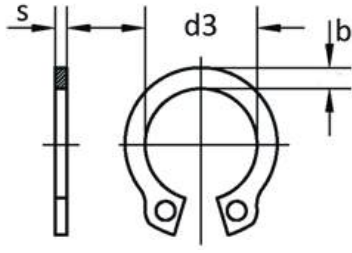
# ÇEŞİTLİ ÜRÜNLER

VARIORUS PRODUCTS

# DIŞ EMNİYET SEGMANI

RETAINING RINGS FOR SHAFTS TYPE A

SICHERUNGSPRINGE FÜR WELLEN TYP A



**ISO**

**UNI**

**DIN**

**-**

**7435**

**471**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI EN  
10132-1/4  
DIN 17222**

TEKNİK BİLGİLER

TECHNICAL INFORMATION

TECHNISCHE INFORMATION

| d  | d3    |                  | s    |             | a max | b ≈  | d5   | d1    | b    | gr    |
|----|-------|------------------|------|-------------|-------|------|------|-------|------|-------|
| 4  | 3,70  | + 0,04<br>- 0,15 | 0,40 | 0<br>- 0,05 | 2,20  | 0,90 | 1,00 | 3,80  | 0,50 | 0,033 |
| 5  | 4,70  |                  | 0,60 |             | 2,50  | 1,10 | 1,00 | 4,80  | 0,70 | 0,080 |
| 6  | 5,60  |                  | 0,70 |             | 2,70  | 1,30 | 1,20 | 5,70  | 0,80 | 0,126 |
| 7  | 6,50  | + 0,06<br>- 0,18 | 0,80 | 0<br>- 0,05 | 3,10  | 1,40 | 1,20 | 6,70  | 0,90 | 0,192 |
| 8  | 7,40  |                  | 0,80 |             | 3,20  | 1,50 | 1,20 | 7,60  | 0,90 | 0,225 |
| 9  | 8,40  |                  | 1,00 |             | 3,30  | 1,70 | 1,20 | 8,60  | 1,10 | 0,379 |
| 10 | 9,30  | + 0,10<br>- 0,36 | 1,00 | 0<br>- 0,06 | 3,30  | 1,80 | 1,20 | 9,60  | 1,10 | 0,420 |
| 11 | 10,20 |                  | 1,00 |             | 3,30  | 1,80 | 1,50 | 10,50 | 1,10 | 0,454 |
| 12 | 11,00 |                  | 1,00 |             | 3,30  | 1,80 | 1,50 | 11,50 | 1,10 | 0,490 |
| 13 | 11,90 |                  | 1,00 |             | 3,40  | 2,00 | 1,70 | 12,40 | 1,10 | 0,584 |
| 14 | 12,90 |                  | 1,00 |             | 3,50  | 2,10 | 1,70 | 13,40 | 1,10 | 0,652 |
| 15 | 13,80 |                  | 1,00 |             | 3,60  | 2,20 | 1,70 | 14,30 | 1,10 | 0,732 |
| 16 | 14,70 |                  | 1,00 |             | 3,70  | 2,20 | 1,70 | 15,20 | 1,10 | 0,810 |
| 17 | 15,70 |                  | 1,00 |             | 3,80  | 2,30 | 1,70 | 16,20 | 1,10 | 0,892 |
| 18 | 16,50 |                  | 1,20 |             | 3,90  | 2,40 | 1,70 | 17,00 | 1,30 | 1,198 |
| 19 | 17,50 |                  | 1,20 |             | 3,90  | 2,50 | 2,00 | 18,00 | 1,30 | 1,253 |
| 20 | 18,50 | + 0,13<br>- 0,42 | 1,20 | 0<br>- 0,06 | 4,00  | 2,60 | 2,00 | 19,00 | 1,30 | 1,320 |
| 21 | 19,50 |                  | 1,20 |             | 4,10  | 2,70 | 2,00 | 20,00 | 1,30 | 1,480 |
| 22 | 20,50 |                  | 1,20 |             | 4,20  | 2,80 | 2,00 | 21,00 | 1,30 | 1,621 |
| 23 | 21,50 | + 0,21<br>- 0,42 | 1,20 | 0<br>- 0,06 | 4,30  | 2,90 | 2,00 | 22,00 | 1,30 | 1,745 |
| 24 | 22,20 |                  | 1,20 |             | 4,40  | 3,00 | 2,00 | 22,90 | 1,30 | 1,801 |
| 25 | 23,20 |                  | 1,20 |             | 4,40  | 3,00 | 2,00 | 23,90 | 1,30 | 1,928 |
| 26 | 24,20 |                  | 1,20 |             | 4,50  | 3,10 | 2,00 | 24,90 | 1,30 | 2,019 |
| 27 | 24,90 |                  | 1,20 |             | 4,60  | 3,10 | 2,00 | 25,60 | 1,30 | 2,170 |
| 28 | 25,90 |                  | 1,50 |             | 4,70  | 3,20 | 2,00 | 26,60 | 1,60 | 2,870 |
| 29 | 26,90 |                  | 1,50 |             | 4,80  | 3,40 | 2,00 | 27,60 | 1,60 | 3,100 |
| 30 | 27,90 |                  | 1,50 |             | 5,00  | 3,50 | 2,00 | 28,60 | 1,60 | 3,294 |
| 31 | 28,60 |                  | 1,50 |             | 5,00  | 3,50 | 2,50 | 29,30 | 1,60 | 3,301 |
| 32 | 29,60 |                  | 1,50 |             | 5,20  | 3,60 | 2,50 | 30,30 | 1,60 | 3,887 |
| 33 | 30,50 | + 0,25<br>- 0,50 | 1,50 | 0<br>- 0,06 | 5,20  | 3,70 | 2,50 | 31,30 | 1,60 | 3,639 |
| 34 | 31,50 |                  | 1,50 |             | 5,40  | 3,80 | 2,50 | 32,30 | 1,60 | 4,221 |
| 35 | 32,50 |                  | 1,50 |             | 5,60  | 3,90 | 2,50 | 33,00 | 1,60 | 4,365 |
| 36 | 33,20 |                  | 1,75 |             | 5,60  | 4,00 | 2,50 | 34,00 | 1,85 | 4,719 |
| 37 | 34,20 |                  | 1,75 |             | 5,70  | 4,10 | 2,50 | 35,00 | 1,85 | 5,260 |
| 38 | 35,20 | + 0,39<br>- 0,90 | 1,75 | 0<br>- 0,06 | 5,80  | 4,20 | 2,50 | 36,00 | 1,85 | 6,203 |
| 39 | 36,00 |                  | 1,75 |             | 5,90  | 4,30 | 2,50 | 37,00 | 1,85 | 6,668 |
| 40 | 36,50 |                  | 1,75 |             | 6,00  | 4,40 | 2,50 | 37,50 | 1,85 | 6,234 |
|    |       |                  |      |             |       |      |      |       |      |       |
|    |       |                  |      |             |       |      |      |       |      |       |
|    |       |                  |      |             |       |      |      |       |      |       |
|    |       |                  |      |             |       |      |      |       |      |       |

Değerler milimetre olarak verilmiştir.

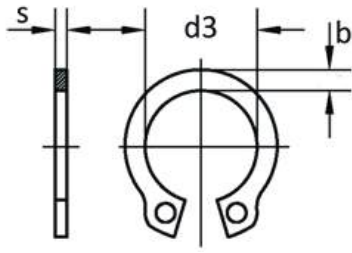
Values are given in millimeters.

Werte sind in millimetern angegeben.

# DIŞ EMNİYET SEGMANI

RETAINING RINGS FOR SHAFTS TYPE A

SICHERUNGSPRINGE FÜR WELLEN TYP A



**ISO**

**UNI**

**DIN**

**-**

**7435**

**471**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI EN  
10132-1/4  
DIN 17222**

TEKNİK BİLGİLER

TECHNICAL INFORMATION

TECHNISCHE INFORMATION

| d   | d3    | s    | a max | b ≈  | d5   | d1    | b    | gr     |
|-----|-------|------|-------|------|------|-------|------|--------|
| 41  | 37,50 | 1,75 | 6,20  | 4,50 | 2,50 | 38,50 | 1,85 | 6,440  |
| 42  | 38,50 | 1,75 | 6,50  | 4,50 | 2,50 | 39,50 | 1,85 | 6,884  |
| 43  | 39,50 | 1,75 | 6,50  | 4,50 | 2,50 | 40,50 | 1,85 | 6,884  |
| 44  | 40,50 | 1,75 | 6,60  | 4,60 | 2,50 | 41,50 | 1,85 | 7,958  |
| 45  | 41,50 | 1,75 | 6,70  | 4,70 | 2,50 | 42,50 | 1,85 | 7,573  |
| 46  | 42,50 | 1,75 | 6,70  | 4,80 | 2,50 | 43,50 | 1,85 | 7,650  |
| 47  | 43,50 | 1,75 | 6,80  | 4,90 | 2,50 | 44,50 | 1,85 | 7,840  |
| 48  | 44,50 | 1,75 | 6,90  | 5,00 | 2,50 | 45,50 | 1,85 | 8,160  |
| 50  | 45,80 | 2,00 | 6,90  | 5,10 | 2,50 | 47,00 | 2,15 | 10,706 |
| 52  | 47,80 | 2,00 | 7,00  | 5,20 | 2,50 | 49,00 | 2,15 | 11,328 |
| 54  | 49,80 | 2,00 | 7,10  | 5,30 | 2,50 | 51,00 | 2,15 | 12,512 |
| 55  | 50,80 | 2,00 | 7,20  | 5,40 | 2,50 | 52,00 | 2,15 | 12,413 |
| 56  | 51,80 | 2,00 | 7,30  | 5,50 | 2,50 | 53,00 | 2,15 | 12,684 |
| 57  | 52,80 | 2,00 | 7,30  | 5,50 | 2,50 | 54,00 | 2,15 | 13,464 |
| 58  | 53,80 | 2,00 | 7,30  | 5,60 | 2,50 | 55,00 | 2,15 | 13,119 |
| 60  | 55,80 | 2,00 | 7,40  | 5,80 | 2,50 | 57,00 | 2,15 | 13,866 |
| 62  | 57,80 | 2,00 | 7,50  | 6,00 | 2,50 | 59,00 | 2,15 | 14,266 |
| 63  | 58,80 | 2,00 | 7,60  | 6,20 | 3,00 | 60,00 | 2,15 | 14,540 |
| 65  | 60,80 | 2,50 | 7,80  | 6,30 | 3,00 | 62,00 | 2,65 | 21,225 |
| 67  | 62,50 | 2,50 | 7,90  | 6,40 | 3,00 | 64,00 | 2,65 | 20,520 |
| 68  | 63,50 | 2,50 | 8,00  | 6,50 | 3,00 | 65,00 | 2,65 | 22,125 |
| 70  | 65,50 | 2,50 | 8,10  | 6,60 | 3,00 | 67,00 | 2,65 | 23,349 |
| 72  | 67,50 | 2,50 | 8,20  | 6,80 | 3,00 | 69,00 | 2,65 | 23,727 |
| 75  | 70,50 | 2,50 | 8,40  | 7,00 | 3,00 | 72,00 | 2,65 | 24,549 |
| 77  | 72,50 | 2,50 | 8,50  | 7,20 | 3,00 | 74,50 | 2,65 | 25,976 |
| 78  | 73,50 | 2,50 | 8,60  | 7,30 | 3,00 | 75,50 | 2,65 | 26,366 |
| 80  | 74,50 | 2,50 | 8,60  | 7,40 | 3,00 | 76,50 | 2,65 | 27,517 |
| 82  | 76,50 | 2,50 | 8,70  | 7,60 | 3,00 | 78,50 | 2,65 | 27,993 |
| 85  | 79,50 | 3,00 | 8,70  | 7,80 | 3,50 | 81,50 | 3,15 | 38,109 |
| 87  | 81,50 | 3,00 | 8,80  | 7,90 | 3,50 | 83,50 | 3,15 | 39,904 |
| 88  | 82,50 | 3,00 | 8,80  | 8,00 | 3,50 | 84,50 | 3,15 | 40,088 |
| 90  | 84,50 | 3,00 | 8,80  | 8,20 | 3,50 | 86,50 | 3,15 | 41,540 |
| 92  | 86,50 | 3,00 | 9,00  | 8,40 | 3,50 | 88,50 | 3,15 | 42,548 |
| 95  | 89,50 | 3,00 | 9,40  | 8,60 | 3,50 | 91,50 | 3,15 | 44,660 |
| 97  | 91,50 | 3,00 | 9,40  | 8,80 | 3,50 | 93,50 | 3,15 | 47,924 |
| 98  | 92,50 | 3,00 | 9,40  | 8,80 | 3,50 | 94,50 | 3,15 | 47,924 |
| 100 | 94,50 | 3,00 | 9,60  | 9,00 | 3,50 | 96,50 | 3,15 | 47,035 |
|     |       |      |       |      |      |       |      |        |
|     |       |      |       |      |      |       |      |        |
|     |       |      |       |      |      |       |      |        |
|     |       |      |       |      |      |       |      |        |

Değerler milimetre olarak verilmiştir.

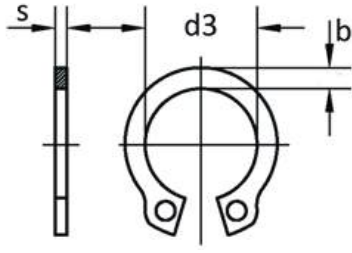
Values are given in millimeters.

Werte sind in millimetern angegeben.

# DIŞ EMNİYET SEGMANI

RETAINING RINGS FOR SHAFTS TYPE A

SICHERUNGSPRINGE FÜR WELLEN TYP A



**ISO**

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**-**

**7435**

**471**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI EN  
10132-1/4  
DIN 17222**

TEKNİK BİLGİLER

TECHNICAL INFORMATION

TECHNISCHE INFORMATION

| d   | d3     | s | a max | b ≈   | d5   | d1  | b    | gr     |
|-----|--------|---|-------|-------|------|-----|------|--------|
| 102 | 95,00  | 4 | 9,70  | 9,20  | 3,50 | 98  | 4,15 | 71,08  |
| 105 | 98,00  | 4 | 9,90  | 9,30  | 3,50 | 101 | 4,15 | 70,45  |
| 107 | 100,00 | 4 | 10,00 | 9,50  | 3,50 | 103 | 4,15 | 78,79  |
| 108 | 100,00 | 4 | 10,00 | 9,50  | 3,50 | 104 | 4,15 | 78,79  |
| 110 | 103,00 | 4 | 10,10 | 9,60  | 3,50 | 106 | 4,15 | 72,79  |
| 112 | 105,00 | 4 | 10,30 | 9,70  | 3,50 | 108 | 4,15 | 84,27  |
| 115 | 108,00 | 4 | 10,60 | 9,80  | 3,50 | 111 | 4,15 | 84,63  |
| 117 | 110,00 | 4 | 10,80 | 10,00 | 3,50 | 113 | 4,15 | 88,61  |
| 118 | 110,00 | 4 | 10,80 | 10,00 | 3,50 | 114 | 4,15 | 88,61  |
| 120 | 113,00 | 4 | 11,00 | 10,20 | 3,50 | 116 | 4,15 | 91,55  |
| 122 | 115,00 | 4 | 11,20 | 10,30 | 4,00 | 118 | 4,15 | 93,26  |
| 125 | 118,00 | 4 | 11,40 | 10,40 | 4,00 | 121 | 4,15 | 98,06  |
| 127 | 120,00 | 4 | 11,40 | 10,50 | 4,00 | 123 | 4,15 | 101,08 |
| 128 | 120,00 | 4 | 11,40 | 10,50 | 4,00 | 124 | 4,15 | 101,08 |
| 130 | 123,00 | 4 | 11,60 | 10,70 | 4,00 | 126 | 4,15 | 104,00 |
| 132 | 125,00 | 4 | 11,70 | 10,80 | 4,00 | 128 | 4,15 | 110,40 |
| 135 | 128,00 | 4 | 11,80 | 11,00 | 4,00 | 131 | 4,15 | 110,70 |
| 137 | 130,00 | 4 | 11,90 | 11,00 | 4,00 | 133 | 4,15 | 115,70 |
| 138 | 130,00 | 4 | 11,90 | 11,00 | 4,00 | 134 | 4,15 | 115,70 |
| 140 | 133,00 | 4 | 12,00 | 11,20 | 4,00 | 136 | 4,15 | 114,40 |
| 142 | 135,00 | 4 | 12,10 | 11,30 | 4,00 | 138 | 4,15 | 124,70 |
| 145 | 138,00 | 4 | 12,20 | 11,50 | 4,00 | 141 | 4,15 | 128,30 |
| 147 | 140,00 | 4 | 12,30 | 11,60 | 4,00 | 143 | 4,15 | 127,40 |
| 148 | 140,00 | 4 | 12,30 | 11,60 | 4,00 | 144 | 4,15 | 127,40 |
| 150 | 142,00 | 4 | 13,00 | 11,80 | 4,00 | 145 | 4,15 | 136,60 |
| 152 | 143,00 | 4 | 13,00 | 11,90 | 4,00 | 147 | 4,15 | 146,40 |
| 155 | 146,00 | 4 | 13,00 | 12,00 | 4,00 | 150 | 4,15 | 146,40 |
| 160 | 151,00 | 4 | 13,30 | 12,20 | 4,00 | 155 | 4,15 | 152,50 |
| 165 | 155,50 | 4 | 13,50 | 12,50 | 4,00 | 160 | 4,15 | 160,40 |
| 170 | 160,50 | 4 | 13,50 | 12,90 | 4,00 | 165 | 4,15 | 173,70 |
| 175 | 165,50 | 4 | 13,50 | 12,90 | 4,00 | 170 | 4,15 | 178,20 |
| 180 | 170,50 | 4 | 14,20 | 13,50 | 4,00 | 175 | 4,15 | 191,30 |
| 185 | 175,50 | 4 | 14,20 | 13,50 | 4,00 | 180 | 4,15 | 200,00 |
| 190 | 180,50 | 4 | 14,20 | 14,00 | 4,00 | 185 | 4,15 | 203,40 |
| 195 | 185,50 | 4 | 14,20 | 14,00 | 4,00 | 190 | 4,15 | 207,80 |
| 200 | 190,50 | 4 | 14,20 | 14,00 | 4,00 | 196 | 4,15 | 215,90 |
|     |        |   |       |       |      |     |      |        |
|     |        |   |       |       |      |     |      |        |
|     |        |   |       |       |      |     |      |        |
|     |        |   |       |       |      |     |      |        |
|     |        |   |       |       |      |     |      |        |

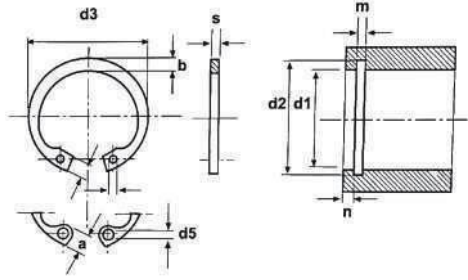
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# İÇ EMNİYET SEGMANI

HEAVY DUTY RETAINING RINGS FOR BORES TYPE J SICHERUNGSRING FÜR BOHRUNGEN TYP J SCHWERE AUSFÜHRUNG



**ISO**

**UNI**

**DIN**

**-**

**7437**

**472**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI EN  
10132-1/4  
DIN 17222**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d  | d3    | s    | a max | b ≈  | d5   | d1    | b    | gr    |
|----|-------|------|-------|------|------|-------|------|-------|
| 8  | 8,70  | 0,80 | 2,40  | 1,10 | 1,00 | 8,40  | 0,50 | 0,122 |
| 9  | 9,80  | 0,80 | 2,50  | 1,30 | 1,00 | 9,40  | 0,70 | 0,147 |
| 10 | 10,80 | 1,00 | 3,20  | 1,40 | 1,20 | 10,40 | 0,80 | 0,267 |
| 11 | 11,80 | 1,00 | 3,30  | 1,50 | 1,20 | 11,40 | 0,90 | 0,300 |
| 12 | 13,00 | 1,00 | 3,40  | 1,70 | 1,50 | 12,50 | 0,90 | 0,318 |
| 13 | 14,10 | 1,00 | 3,60  | 1,80 | 1,50 | 8,60  | 1,10 | 0,372 |
| 14 | 15,10 | 1,00 | 3,70  | 1,90 | 1,70 | 9,60  | 1,10 | 0,417 |
| 15 | 16,20 | 1,00 | 3,70  | 2,00 | 1,70 | 10,50 | 1,10 | 0,478 |
| 16 | 17,30 | 1,00 | 3,80  | 2,00 | 1,70 | 11,50 | 1,10 | 0,510 |
| 17 | 18,30 | 1,00 | 3,90  | 2,10 | 1,70 | 12,40 | 1,10 | 0,557 |
| 18 | 19,50 | 1,00 | 4,10  | 2,20 | 2,00 | 13,40 | 1,10 | 0,656 |
| 19 | 20,50 | 1,00 | 4,10  | 2,20 | 2,00 | 14,30 | 1,10 | 0,687 |
| 20 | 21,50 | 1,00 | 4,20  | 2,30 | 2,00 | 15,20 | 1,10 | 0,730 |
| 21 | 22,50 | 1,00 | 4,20  | 2,40 | 2,00 | 16,20 | 1,10 | 0,810 |
| 22 | 23,50 | 1,00 | 4,20  | 2,50 | 2,00 | 17,00 | 1,30 | 0,883 |
| 23 | 24,60 | 1,20 | 4,20  | 2,50 | 2,00 | 18,00 | 1,30 | 1,113 |
| 24 | 25,90 | 1,20 | 4,40  | 2,60 | 2,00 | 19,00 | 1,30 | 1,228 |
| 25 | 26,90 | 1,20 | 4,50  | 2,70 | 2,00 | 20,00 | 1,30 | 1,340 |
| 26 | 27,90 | 1,20 | 4,70  | 2,80 | 2,00 | 21,00 | 1,30 | 1,464 |
| 27 | 29,10 | 1,20 | 4,70  | 2,90 | 2,00 | 22,00 | 1,30 | 1,587 |
| 28 | 30,10 | 1,20 | 4,80  | 2,90 | 2,00 | 22,90 | 1,30 | 1,630 |
| 29 | 31,10 | 1,20 | 4,80  | 3,00 | 2,00 | 23,90 | 1,30 | 1,729 |
| 30 | 32,10 | 1,20 | 4,80  | 3,00 | 2,00 | 24,90 | 1,30 | 1,808 |
| 31 | 33,40 | 1,20 | 5,20  | 3,20 | 2,50 | 25,60 | 1,30 | 1,952 |
| 32 | 34,40 | 1,20 | 5,40  | 3,20 | 2,50 | 26,60 | 1,60 | 2,640 |
| 33 | 35,50 | 1,20 | 5,40  | 3,30 | 2,50 | 27,60 | 1,60 | 2,200 |
| 34 | 36,50 | 1,50 | 5,40  | 3,30 | 2,50 | 28,60 | 1,60 | 3,055 |
| 35 | 37,80 | 1,50 | 5,40  | 3,40 | 2,50 | 29,30 | 1,60 | 3,047 |
| 36 | 38,80 | 1,50 | 5,40  | 3,50 | 2,50 | 30,30 | 1,60 | 3,458 |
| 37 | 39,80 | 1,50 | 5,50  | 3,60 | 2,50 | 31,30 | 1,60 | 3,425 |
| 38 | 40,80 | 1,50 | 5,50  | 3,70 | 2,50 | 32,30 | 1,60 | 3,485 |
| 39 | 42,00 | 1,50 | 5,60  | 3,80 | 2,50 | 33,00 | 1,60 | 3,620 |
| 40 | 43,50 | 1,75 | 5,80  | 3,90 | 2,50 | 42,50 | 1,85 | 4,653 |
| 41 | 44,50 | 1,75 | 5,90  | 4,00 | 2,50 | 43,50 | 1,85 | 5,287 |
| 42 | 45,50 | 1,75 | 5,90  | 4,10 | 2,50 | 44,50 | 1,85 | 5,553 |
| 43 | 46,50 | 1,75 | 5,90  | 4,20 | 2,50 | 45,50 | 1,85 | 5,701 |
|    |       |      |       |      |      |       |      |       |
|    |       |      |       |      |      |       |      |       |
|    |       |      |       |      |      |       |      |       |
|    |       |      |       |      |      |       |      |       |
|    |       |      |       |      |      |       |      |       |

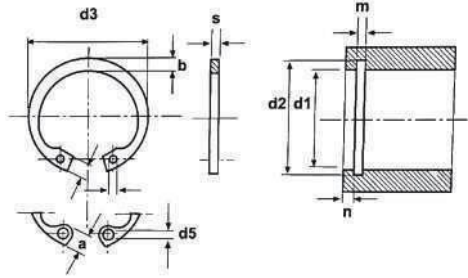
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# İÇ EMNİYET SEGMANI

HEAVY DUTY RETAINING RINGS FOR BORES TYPE J SICHERUNGSRING FÜR BOHRUNGEN TYP J SCHWERE AUSFÜHRUNG



**ISO**

**UNI**

**DIN**

**-**

**7437**

**472**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI EN  
10132-1/4  
DIN 17222**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d   | d3     |                  | s     |             | a max | b ≈  | d5   | d1     | b    | gr     |
|-----|--------|------------------|-------|-------------|-------|------|------|--------|------|--------|
| 44  | 47,50  | + 0,90<br>- 0,39 | 1,750 | 0<br>- 0,06 | 6,00  | 4,20 | 2,50 | 46,50  | 1,85 | 5,135  |
| 45  | 48,50  |                  | 1,750 |             | 6,20  | 4,30 | 2,50 | 47,50  | 1,85 | 5,777  |
| 46  | 49,50  |                  | 1,750 |             | 6,30  | 4,40 | 2,50 | 48,50  | 1,85 | 6,439  |
| 47  | 50,50  |                  | 1,750 |             | 6,40  | 4,40 | 2,50 | 49,50  | 1,85 | 6,517  |
| 48  | 51,50  |                  | 1,750 |             | 6,40  | 4,50 | 2,50 | 50,50  | 1,85 | 6,792  |
| 50  | 54,20  | + 1,10<br>- 0,46 | 2,000 | 0<br>- 0,07 | 6,50  | 4,60 | 2,50 | 53,00  | 2,15 | 8,228  |
| 51  | 55,20  |                  | 2,000 |             | 6,50  | 4,70 | 2,50 | 54,00  | 2,15 | 9,370  |
| 52  | 56,20  |                  | 2,000 |             | 6,70  | 4,70 | 2,50 | 55,00  | 2,15 | 8,501  |
| 53  | 57,20  |                  | 2,000 |             | 6,70  | 4,90 | 2,50 | 56,00  | 2,15 | 9,210  |
| 54  | 58,20  |                  | 2,000 |             | 6,70  | 5,00 | 2,50 | 57,00  | 2,15 | 9,357  |
| 55  | 59,20  |                  | 2,000 |             | 6,80  | 5,00 | 2,50 | 58,00  | 2,15 | 9,584  |
| 56  | 60,20  |                  | 2,000 |             | 6,80  | 5,10 | 2,50 | 59,00  | 2,15 | 9,717  |
| 57  | 61,20  |                  | 2,000 |             | 6,80  | 5,10 | 2,50 | 60,00  | 2,15 | 9,970  |
| 58  | 62,20  |                  | 2,000 |             | 6,90  | 5,20 | 2,50 | 61,00  | 2,15 | 10,650 |
| 60  | 64,20  |                  | 2,000 |             | 7,30  | 5,40 | 2,50 | 63,00  | 2,15 | 10,990 |
| 62  | 66,20  |                  | 2,000 |             | 7,30  | 5,50 | 2,50 | 65,00  | 2,15 | 11,370 |
| 63  | 67,20  |                  | 2,000 |             | 7,30  | 5,60 | 2,50 | 66,00  | 2,15 | 12,531 |
| 65  | 69,20  |                  | 2,500 |             | 7,60  | 5,80 | 3,00 | 68,00  | 2,65 | 16,400 |
| 67  | 71,50  |                  | 2,500 |             | 7,70  | 6,00 | 3,00 | 70,00  | 2,65 | 17,750 |
| 68  | 72,50  |                  | 2,500 |             | 7,80  | 6,10 | 3,00 | 71,00  | 2,65 | 17,900 |
| 70  | 74,50  |                  | 2,500 |             | 7,80  | 6,20 | 3,00 | 73,00  | 2,65 | 19,190 |
| 72  | 76,50  |                  | 2,500 |             | 7,80  | 6,40 | 3,00 | 75,00  | 2,65 | 20,085 |
| 75  | 79,50  |                  | 2,500 |             | 7,80  | 6,60 | 3,00 | 78,00  | 2,65 | 21,250 |
| 77  | 81,50  | + 1,30<br>- 0,54 | 2,500 | 0<br>- 0,08 | 8,50  | 6,80 | 3,00 | 80,00  | 2,65 | 23,900 |
| 78  | 82,50  |                  | 2,500 |             | 8,50  | 6,80 | 3,00 | 81,00  | 2,65 | 23,900 |
| 80  | 85,50  |                  | 2,500 |             | 8,50  | 7,00 | 3,00 | 83,50  | 2,65 | 24,870 |
| 82  | 87,50  |                  | 2,500 |             | 8,50  | 7,00 | 3,00 | 85,50  | 2,65 | 25,570 |
| 85  | 90,50  |                  | 3,000 |             | 8,60  | 7,20 | 3,50 | 88,50  | 2,65 | 31,810 |
| 87  | 92,50  |                  | 3,000 |             | 8,60  | 7,40 | 3,50 | 90,50  | 3,15 | 34,420 |
| 88  | 93,50  |                  | 3,000 |             | 8,60  | 7,40 | 3,50 | 91,50  | 3,15 | 34,420 |
| 90  | 95,50  |                  | 3,000 |             | 8,60  | 7,60 | 3,50 | 93,50  | 3,15 | 36,190 |
| 92  | 97,50  |                  | 3,000 |             | 8,70  | 7,80 | 3,50 | 95,50  | 3,15 | 36,510 |
| 95  | 100,50 |                  | 3,000 |             | 8,80  | 8,10 | 3,50 | 98,50  | 3,15 | 39,260 |
| 97  | 100,50 |                  | 3,000 |             | 9,00  | 8,30 | 3,50 | 98,50  | 3,15 | 40,000 |
| 98  | 102,50 |                  | 3,000 |             | 9,00  | 8,30 | 3,50 | 100,50 | 3,15 | 40,000 |
| 100 | 105,50 |                  | 3,000 |             | 9,20  | 8,40 | 3,50 | 103,50 | 3,15 | 42,110 |
|     |        |                  |       |             |       |      |      |        |      |        |
|     |        |                  |       |             |       |      |      |        |      |        |
|     |        |                  |       |             |       |      |      |        |      |        |
|     |        |                  |       |             |       |      |      |        |      |        |
|     |        |                  |       |             |       |      |      |        |      |        |

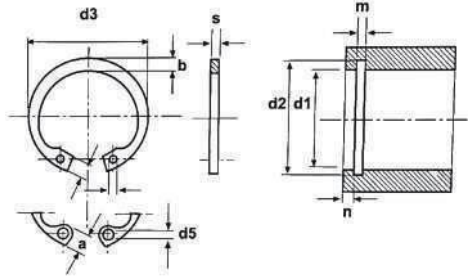
Değerler milimetre olarak verilmiştir.

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# İÇ EMNİYET SEGMANI

HEAVY DUTY RETAINING RINGS FOR BORES TYPE J SICHERUNGSRING FÜR BOHRUNGEN TYP J SCHWERE AUSFÜHRUNG



**ISO**

**UNI**

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**-**

**7437**

**472**

Mekanik Özellikler - Toleranslar  
Mechanical Properties - Tolerances  
Mechanische Eigenschaften - Toleranzen

**UNI EN  
10132-1/4  
DIN 17222**

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

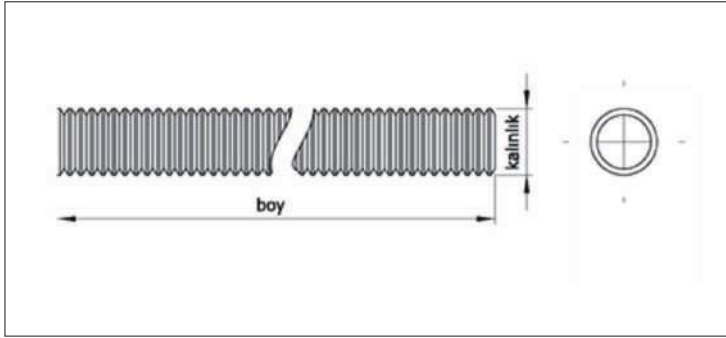
## TECHNISCHE INFORMATION

| d   | d3     |                  | s |             | a max | b ≈   | d5   | d1     | b      | gr     |
|-----|--------|------------------|---|-------------|-------|-------|------|--------|--------|--------|
| 102 | 108,00 | + 1,30<br>- 0,54 | 4 | 0<br>- 0,10 | 9,50  | 8,50  | 3,50 | 106,00 | 415,00 | 57,48  |
| 105 | 112,00 |                  | 4 |             | 9,50  | 8,70  | 3,50 | 109,00 | 415,00 | 62,29  |
| 108 | 115,00 |                  | 4 |             | 9,50  | 8,90  | 3,50 | 112,00 | 415,00 | 67,88  |
| 110 | 117,00 |                  | 4 |             | 10,40 | 9,00  | 3,50 | 114,00 | 415,00 | 67,96  |
| 112 | 119,00 |                  | 4 |             | 10,50 | 9,10  | 3,50 | 116,00 | 415,00 | 68,60  |
| 115 | 122,00 |                  | 4 |             | 10,50 | 9,30  | 3,50 | 119,00 | 415,00 | 73,08  |
| 117 | 124,00 |                  | 4 |             | 10,70 | 9,60  | 3,50 | 121,00 | 415,00 | 78,50  |
| 118 | 125,00 |                  | 4 |             | 10,70 | 9,60  | 3,50 | 122,00 | 415,00 | 78,50  |
| 120 | 127,00 |                  | 4 |             | 11,00 | 9,70  | 3,50 | 124,00 | 415,00 | 75,06  |
| 122 | 129,00 |                  | 4 |             | 11,00 | 9,80  | 4,00 | 126,00 | 415,00 | 83,96  |
| 125 | 132,00 | + 1,50<br>- 0,63 | 4 |             | 11,00 | 10,00 | 4,00 | 129,00 | 415,00 | 85,18  |
| 127 | 135,00 |                  | 4 |             | 11,00 | 10,20 | 4,00 | 132,00 | 415,00 | 89,73  |
| 128 | 135,00 |                  | 4 |             | 11,00 | 10,20 | 4,00 | 132,00 | 415,00 | 89,73  |
| 130 | 137,00 |                  | 4 |             | 11,00 | 10,20 | 4,00 | 134,00 | 415,00 | 91,55  |
| 132 | 139,00 |                  | 4 |             | 11,00 | 10,30 | 4,00 | 136,00 | 415,00 | 91,70  |
| 135 | 142,00 |                  | 4 |             | 11,20 | 10,50 | 4,00 | 139,00 | 415,00 | 97,60  |
| 137 | 145,00 |                  | 4 |             | 11,20 | 10,60 | 4,00 | 141,00 | 415,00 | 99,20  |
| 138 | 145,00 |                  | 4 |             | 11,20 | 10,60 | 4,00 | 142,00 | 415,00 | 99,20  |
| 140 | 147,00 |                  | 4 |             | 11,20 | 10,70 | 4,00 | 144,00 | 415,00 | 102,50 |
| 142 | 149,00 |                  | 4 |             | 11,30 | 10,80 | 4,00 | 146,00 | 415,00 | 103,10 |
| 145 | 152,00 | + 1,70<br>- 0,72 | 4 |             | 11,40 | 10,90 | 4,00 | 149,00 | 415,00 | 107,20 |
| 147 | 155,00 |                  | 4 |             | 11,80 | 11,10 | 4,00 | 151,00 | 415,00 | 112,10 |
| 148 | 155,00 |                  | 4 |             | 11,80 | 11,10 | 4,00 | 152,00 | 415,00 | 112,10 |
| 150 | 158,00 |                  | 4 |             | 12,00 | 11,20 | 4,00 | 155,00 | 415,00 | 114,10 |
| 152 | 161,00 |                  | 4 |             | 12,00 | 11,30 | 4,00 | 157,00 | 415,00 | 108,35 |
| 155 | 164,00 |                  | 4 |             | 12,00 | 11,40 | 4,00 | 160,00 | 415,00 | 125,10 |
| 160 | 169,00 |                  | 4 |             | 13,00 | 11,60 | 4,00 | 165,00 | 415,00 | 131,90 |
| 165 | 174,50 |                  | 4 |             | 13,00 | 11,80 | 4,00 | 170,00 | 415,00 | 138,00 |
| 170 | 179,50 |                  | 4 |             | 13,50 | 12,20 | 4,00 | 175,00 | 415,00 | 144,50 |
| 175 | 184,50 |                  | 4 |             | 13,50 | 12,70 | 4,00 | 180,00 | 415,00 | 159,50 |
| 180 | 189,50 | + 1,70<br>- 0,72 | 4 |             | 14,20 | 13,20 | 4,00 | 185,00 | 415,00 | 162,20 |
| 185 | 191,50 |                  | 4 |             | 14,20 | 13,70 | 4,00 | 187,00 | 415,00 | 171,20 |
| 190 | 199,50 |                  | 4 |             | 14,20 | 13,80 | 4,00 | 192,00 | 415,00 | 175,00 |
| 195 | 204,50 |                  | 4 |             | 14,20 | 13,80 | 4,00 | 200,00 | 415,00 | 184,90 |
| 200 | 209,50 |                  | 4 |             | 14,20 | 14,20 | 4,00 | 205,00 | 415,00 | 188,60 |
|     |        |                  |   |             |       |       |      |        |        |        |
|     |        |                  |   |             |       |       |      |        |        |        |
|     |        |                  |   |             |       |       |      |        |        |        |
|     |        |                  |   |             |       |       |      |        |        |        |
|     |        |                  |   |             |       |       |      |        |        |        |
|     |        |                  |   |             |       |       |      |        |        |        |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



| ISO                                                                                                              | UNI  | DIN                                   |
|------------------------------------------------------------------------------------------------------------------|------|---------------------------------------|
| -                                                                                                                | 6547 | 975                                   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | <b>ISO 898-1</b><br><b>ISO 4759-1</b> |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d  | M3   | M4   | M5   | M6   | M7   | M8   | M10  | M12  |
|----|------|------|------|------|------|------|------|------|
| P  | 0,50 | 0,70 | 0,80 | 1,00 | 1,00 | 1,25 | 1,50 | 1,75 |
| gr | 44   | 78   | 120  | 177  | 250  | 310  | 491  | 712  |

| d  | M14  | M16  | M18  | M20  | M22  | M24  | M27  | M30  |
|----|------|------|------|------|------|------|------|------|
| P  | 2,00 | 2,00 | 2,50 | 2,50 | 2,50 | 3,00 | 3,00 | 3,50 |
| gr | 975  | 1310 | 1627 | 2052 | 2526 | 2956 | 3821 | 4883 |

| d  | M33  | M36  | M39  | M42  |
|----|------|------|------|------|
| P  | 3,50 | 4,00 | 4,00 | 4,50 |
| gr | 5758 | 6804 | 8085 | 9322 |

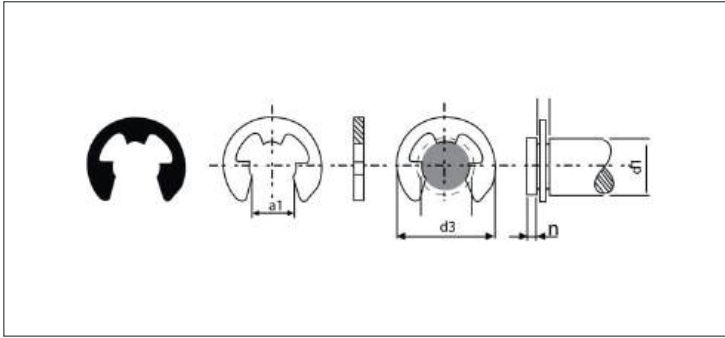
| d     | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
|-------|------|-----|------|-----|------|-----|
| P UNC | 24   | 20  | 18   | 16  | 14   | 13  |
| P UNF |      | 28  | 24   | 24  | 20   | 20  |
| gr    | 120  | 180 | 285  | 440 | 590  | 780 |

| d     | 9/16 | 5/8  | 3/4  | 7/8  | 1    |
|-------|------|------|------|------|------|
| P UNC | 12   | 11   | 10   | 9    | 8    |
| P UNF | 18   | 18   | 16   | 14   | 12   |
| gr    | 970  | 1250 | 1800 | 2500 | 3265 |

# AY SEGMANI

## CIRCLIPS FOR SHAFTS

## SICHERUNGSSCHEIBE FÜR WELLEN

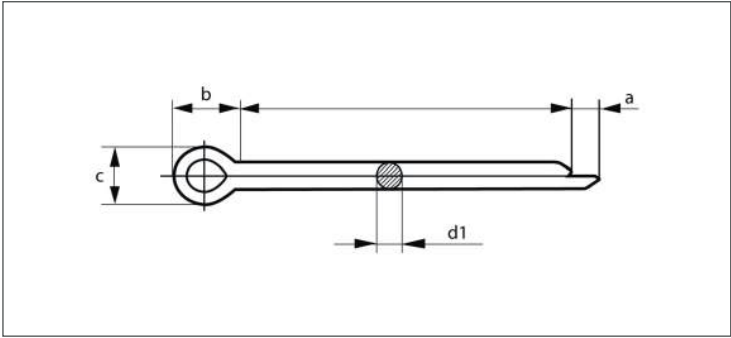


| ISO                                                                                                              | UNI  | DIN                              |
|------------------------------------------------------------------------------------------------------------------|------|----------------------------------|
| -                                                                                                                | 7434 | 6799                             |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | UNI EN<br>10132-1/4<br>DIN 17222 |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



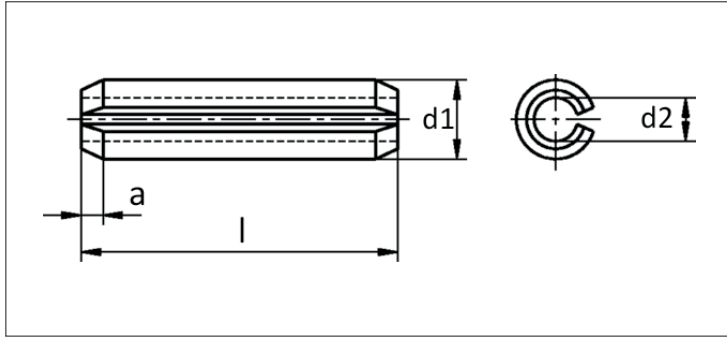
|                                                                                                                  |             |            |
|------------------------------------------------------------------------------------------------------------------|-------------|------------|
| <b>ISO</b>                                                                                                       | <b>UNI</b>  | <b>DIN</b> |
| <b>1234</b>                                                                                                      | <b>1336</b> | <b>94</b>  |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |             |            |

| TEKNİK BİLGİLER |     |      |      |      | TECHNICAL INFORMATIONS |      |      |      |       | TECHNISCHE INFORMATION |       |       |       |       |       |
|-----------------|-----|------|------|------|------------------------|------|------|------|-------|------------------------|-------|-------|-------|-------|-------|
| d               |     | 1    | 1,2  | 1,6  | 2                      | 2,5  | 3,2  | 4    | 5     | 6,3                    | 8     | 10    | 13    | 16    | 20    |
| d               | max | 0,90 | 5,00 | 1,40 | 1,80                   | 2,30 | 2,90 | 3,70 | 4,60  | 5,90                   | 7,50  | 9,50  | 12,40 | 15,40 | 19,30 |
|                 | min | 0,80 | 0,90 | 1,30 | 1,70                   | 2,10 | 2,70 | 3,50 | 4,40  | 5,70                   | 7,30  | 9,10  | 12,10 | 15,10 | 19,00 |
| c               | max | 1,80 | 2,00 | 2,80 | 3,60                   | 4,60 | 5,80 | 7,40 | 9,20  | 11,80                  | 15,00 | 19,00 | 24,80 | 30,80 | 38,60 |
|                 | min | 1,60 | 1,70 | 2,40 | 3,20                   | 4,00 | 5,10 | 6,50 | 8,00  | 10,30                  | 13,10 | 16,60 | 21,70 | 27,00 | 33,80 |
| b               | ~   | 3,00 | 3,00 | 3,20 | 4,00                   | 5,00 | 6,40 | 8,00 | 10,00 | 12,60                  | 16,00 | 20,00 | 26,00 | 32,00 | 40,00 |
| a               | max | 1,60 | 2,50 | 2,50 | 2,50                   | 2,50 | 3,20 | 4,00 | 4,00  | 4,00                   | 4,00  | 6,30  | 6,30  | 6,30  | 6,30  |
|                 | min | 0,80 | 1,25 | 1,25 | 1,25                   | 1,25 | 1,60 | 2,00 | 2,00  | 2,00                   | 2,00  | 3,20  | 3,20  | 3,20  | 3,20  |

# YARIKLI PİM

HEAVY DUTY SPRING PINS

SPANNSTIFTE



| ISO                                                                                                              | UNI  | DIN                                 |
|------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|
| 8752                                                                                                             | 6873 | 1481                                |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |      | <b>DIN 267-5</b><br><b>UNI 6830</b> |

| TEKNİK BİLGİLER |     |      | TECHNICAL INFORMATION |      |      |      |      | TECHNISCHE INFORMATION |      |      |      |       |       |       |
|-----------------|-----|------|-----------------------|------|------|------|------|------------------------|------|------|------|-------|-------|-------|
| d               |     | 1    | 1,5                   | 2    | 2,5  | 3    | 3,5  | 4                      | 5    | 6    | 8    | 10    | 12    | 13    |
| d1              | max | 1,30 | 5,00                  | 2,40 | 2,90 | 3,50 | 4,00 | 4,60                   | 5,60 | 6,70 | 8,80 | 10,80 | 12,80 | 13,80 |
|                 | min | 1,20 | 1,70                  | 2,30 | 2,80 | 3,30 | 3,80 | 4,40                   | 5,40 | 6,40 | 8,50 | 10,50 | 12,50 | 13,50 |
| d2              | ~   | 0,80 | 1,10                  | 1,50 | 1,80 | 2,10 | 2,30 | 2,80                   | 3,40 | 3,90 | 5,50 | 6,50  | 7,50  | 8,50  |
| s               | ~   | 0,20 | 0,30                  | 0,40 | 0,50 | 0,60 | 0,75 | 0,80                   | 1,00 | 1,25 | 1,50 | 2,00  | 2,50  | 2,50  |
| a               | ~   | 0,15 | 0,25                  | 0,35 | 0,40 | 0,50 | 0,60 | 0,65                   | 0,90 | 1,20 | 2,00 | 2,00  | 2,00  | 2,00  |

| l   |            | 1     | 1,5   | 2     | 2,5   | 3     | 3,5   | 4     | 5     | 6      | 8     | 10     | 11     | 12     |
|-----|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|
| 4   | + 0,5<br>0 | 0,015 | 0,034 | 0,061 | 0,095 | 0,136 | 0,197 | 0,239 |       |        |       |        |        |        |
| 5   |            | 0,019 | 0,043 | 0,077 | 0,118 | 0,170 | 0,246 | 0,299 | 0,471 |        |       |        |        |        |
| 6   |            | 0,023 | 0,051 | 0,092 | 0,142 | 0,204 | 0,296 | 0,358 | 0,566 |        |       |        |        |        |
| 8   |            | 0,031 | 0,068 | 0,122 | 0,189 | 0,272 | 0,394 | 0,478 | 0,754 | 1,10   |       |        |        |        |
| 10  |            | 0,038 | 0,085 | 0,153 | 0,236 | 0,340 | 0,493 | 0,597 | 0,942 | 1,38   | 2,240 | 3,690  | 5,550  | 6,180  |
| 12  | + 1<br>0   | 0,045 | 0,103 | 0,184 | 0,283 | 0,407 | 0,591 | 0,716 | 1,130 | 1,66   | 2,660 | 4,430  | 6,660  | 7,420  |
| 14  |            | 0,052 | 0,120 | 0,214 | 0,330 | 0,475 | 0,689 | 0,836 | 1,320 | 1,94   | 3,13  | 5,170  | 7,780  | 8,660  |
| 16  |            | 0,059 | 0,137 | 0,244 | 0,377 | 0,543 | 0,788 | 0,955 | 1,510 | 2,21   | 3,58  | 5,900  | 8,890  | 9,900  |
| 18  |            | 0,067 | 0,154 | 0,275 | 0,424 | 0,611 | 0,886 | 1,070 | 1,700 | 2,49   | 4,03  | 6,640  | 10,000 | 11,100 |
| 20  |            | 0,076 | 0,171 | 0,305 | 0,471 | 0,679 | 0,985 | 1,190 | 1,880 | 2,77   | 4,48  | 7,380  | 11,100 | 12,400 |
| 22  |            |       |       | 0,336 | 0,519 | 0,746 | 1,080 | 1,310 | 2,070 | 3,04   | 4,92  | 8,120  | 12,200 | 13,600 |
| 24  |            |       |       | 0,367 | 0,565 | 0,814 | 1,180 | 1,430 | 2,260 | 3,32   | 5,37  | 8,860  | 13,300 | 14,800 |
| 26  |            |       |       | 0,397 | 0,613 | 0,882 | 1,280 | 1,550 | 2,450 | 3,60   | 5,82  | 9,590  | 14,400 | 16,100 |
| 28  |            |       |       | 0,427 | 0,660 | 0,950 | 1,380 | 1,670 | 2,640 | 3,87   | 6,26  | 10,300 | 15,600 | 17,300 |
| 30  |            |       |       | 0,458 | 0,707 | 1,020 | 1,480 | 1,790 | 2,830 | 4,15   | 6,71  | 11,100 | 16,700 | 18,500 |
| 32  |            |       |       |       |       | 1,090 | 1,580 | 1,910 | 3,03  | 4,43   | 7,16  | 11,800 | 17,800 | 19,800 |
| 36  |            |       |       |       |       | 1,220 | 1,770 | 2,18  | 3,39  | 4,98   | 8,06  | 13,300 | 20,000 | 22,300 |
| 40  |            |       |       |       |       | 1,360 | 1,970 | 2,39  | 3,77  | 5,54   | 8,95  | 14,800 | 22,200 | 24,700 |
| 45  |            |       |       |       |       |       |       | 2,68  | 4,24  | 6,23   | 10,10 | 16,600 | 25,000 | 27,800 |
| 50  |            |       |       |       |       |       |       | 2,98  | 4,71  | 6,92   | 11,20 | 18,40  | 27,80  | 30,90  |
| 55  | + 1,5<br>0 |       |       |       |       |       |       | 3,27  | 5,18  | 7,61   | 12,30 | 20,30  | 30,50  | 34,00  |
| 60  |            |       |       |       |       |       |       | 3,57  | 5,65  | 8,30   | 13,40 | 22,10  | 33,30  | 37,10  |
| 70  |            |       |       |       |       |       |       | 4,16  | 6,59  | 9,69   | 15,70 | 25,80  | 38,90  | 43,30  |
| 80  |            |       |       |       |       |       |       | 4,75  | 7,54  | 11,10  | 18,00 | 29,50  | 44,40  | 49,50  |
| 90  |            |       |       |       |       |       |       |       | 8,45  | 12,500 | 20,10 | 33,20  | 50,00  | 55,60  |
| 100 |            |       |       |       |       |       |       |       | 9,37  | 13,800 | 22,40 | 36,90  | 55,50  | 61,80  |
|     |            |       |       |       |       |       |       |       |       |        |       |        |        |        |
|     |            |       |       |       |       |       |       |       |       |        |       |        |        |        |
|     |            |       |       |       |       |       |       |       |       |        |       |        |        |        |
|     |            |       |       |       |       |       |       |       |       |        |       |        |        |        |
|     |            |       |       |       |       |       |       |       |       |        |       |        |        |        |
|     |            |       |       |       |       |       |       |       |       |        |       |        |        |        |
|     |            |       |       |       |       |       |       |       |       |        |       |        |        |        |
|     |            |       |       |       |       |       |       |       |       |        |       |        |        |        |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

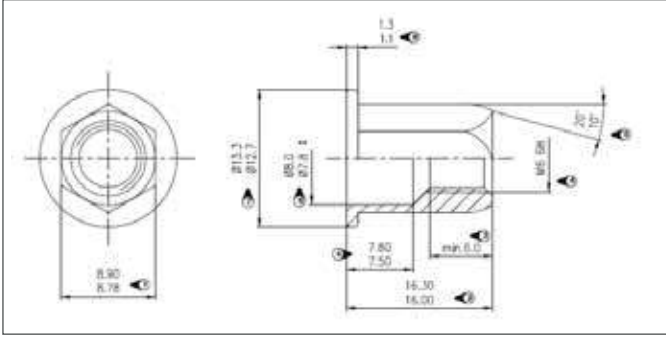
# PERÇİN GRUBU

## RIVETS

## ALTİKÖŞE FLANŞLI KAFA AÇIK UÇLU PERÇİN SOMUNU

## WIDE HEAD HEXAGON NUT RIVET

## BREITER KOPF-SECHSKANTMUTTER-NIET



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

Değerler milimetre olarak verilmiştir.

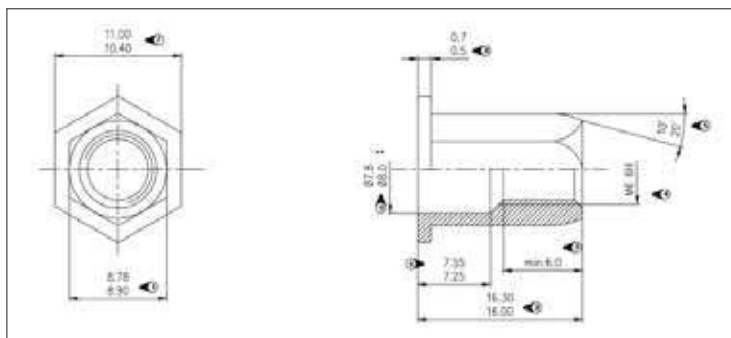
Values are given in millimeters.

Werte sind in millimetern angegeben.

## ALTİKÖŞE SIFIR KAFA AÇIK UÇLU PERÇİN SOMUNU

## ZERO HEAD HEXAGON NUT RIVETS

ZERO HEAD SECHSKANTMUTTERN NIETE



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

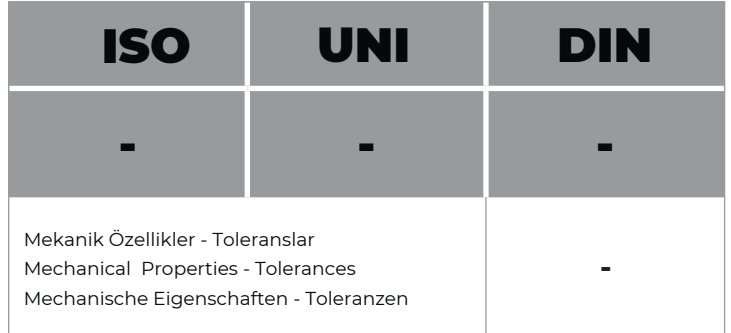
[illegible]

Değerler milimetre olarak verilmiştir.

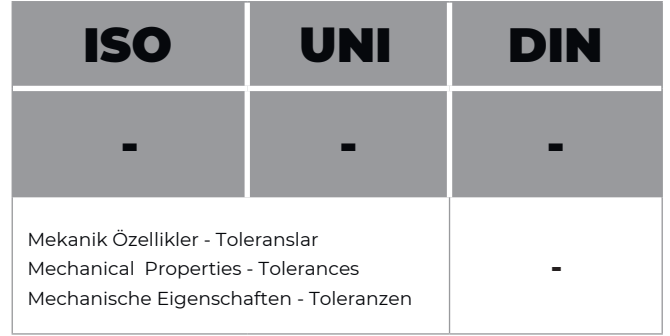
Values are given in millimeters.

Werte sind in millimetern angegeben.

## SEKO-EINNIETMUTTERN, RUNDSCHAFT OFFEN, GERÄNDELT



Werte sind in millimetern angegeben.

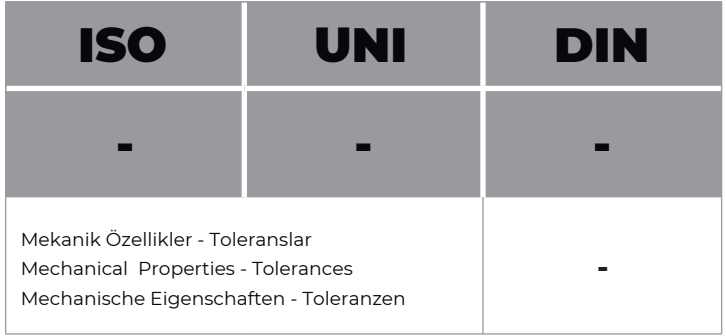


Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

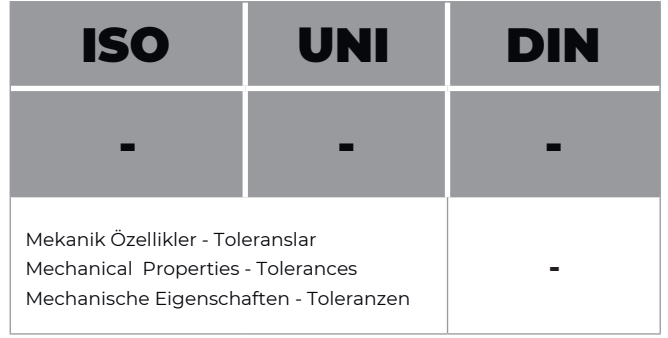
Werte sind in millimetern angegeben.

## FLAKO-EINNIETMUTTERN, TEILSECHSKANTSCHAFT OFFEN

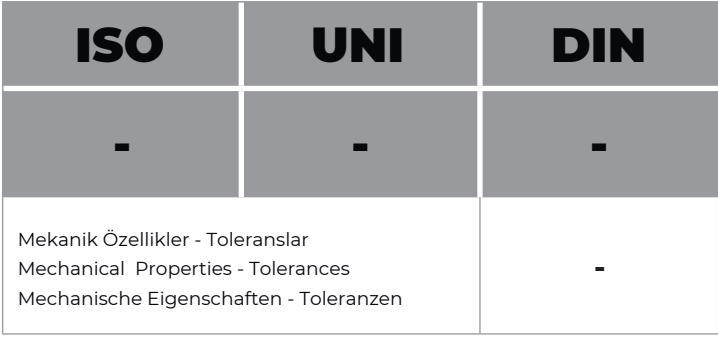


Werte sind in millimetern angegeben.

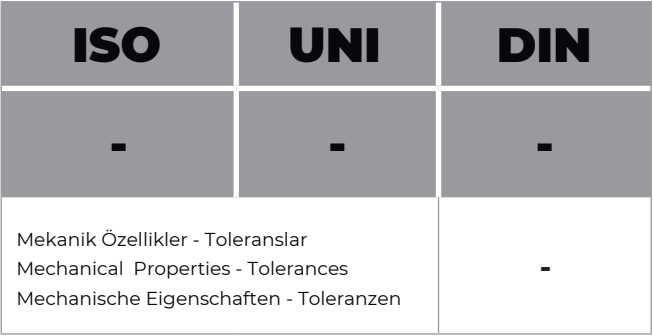
## EINNIETMUTTERN KL. SEKO, TEILSECHSKANTSCHAFT OFFEN

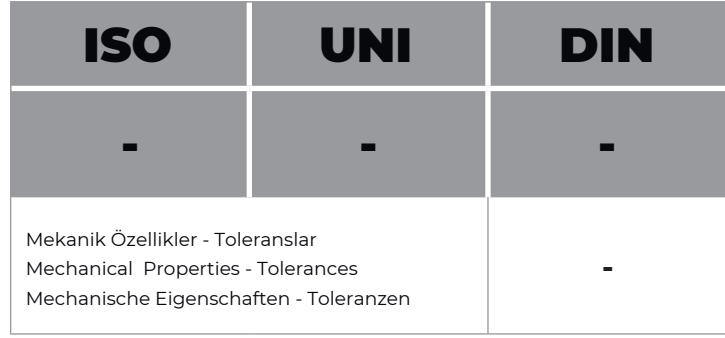


Werte sind in millimetern angegeben.

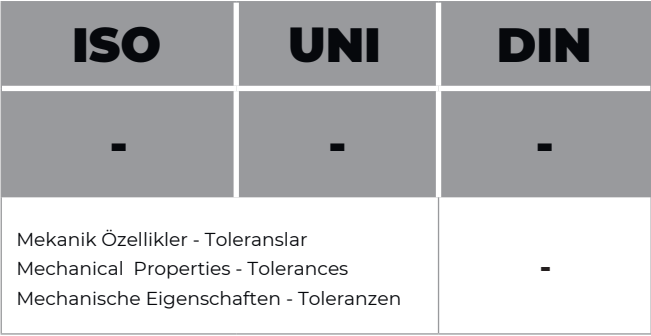


Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.





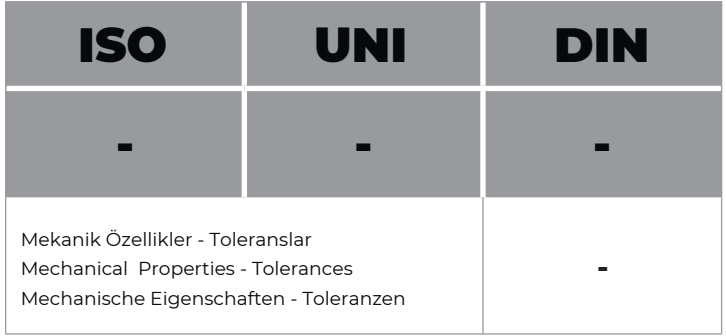
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.



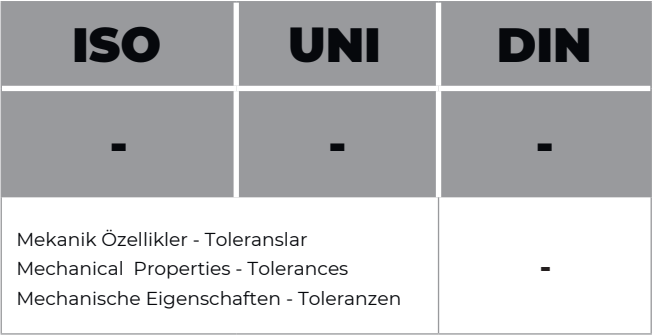
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

|                                                                       |                                                        |
|-----------------------------------------------------------------------|--------------------------------------------------------|
| <b>INOX YUVARLAK GÖVDE FLANŞLI KAFA<br/>KAPALI UÇLU PERÇİN SOMUNU</b> |                                                        |
| FLANGE HEAD CLOSED END RIVET NUT                                      | SEKO-EINNIETMUTTERN, RUNDSCHAFT GESCHLOSSEN, GERÄNDELT |

SEKO-EINNIETMUTTERN, RUNDSCHAFT GESCHLOSSEN, GERÄNDELT

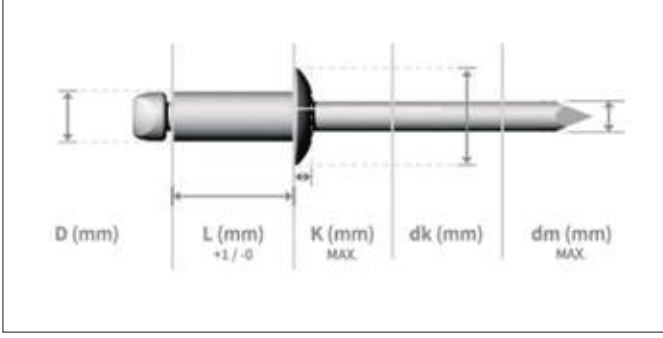


Werte sind in millimetern angegeben.

[illegible]

# ALÜMİNYUM / ÇELİK AÇIK TİP PERÇİN

ALUMINUM / STEEL OPEN END BLIND RIVET



|  | HAMMADDE<br>MATERIAL                         | YÜZEY<br>FINISH                |
|--|----------------------------------------------|--------------------------------|
|  | 5050ALU.<br>5052ALU.<br>5154ALU.<br>5056ALU. | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel                               | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk          | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min                                 | Çekme Dayanımı<br>Tensile (N)<br>min                               |
|------------------------|-------|----------|-------------|-----------|-------------------------|-----------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| 2,40<br>(+0,08 - 0,10) | 4,00  | 1,00     | 4,20 - 5,00 | 1,55      | 2,5 - 2,6               | 0,50 - 2,00                 | 5050ALU. 180N<br>5052ALU. 250N<br>5154ALU. 180N<br>5056ALU. 450N   | 5050ALU. 280N<br>5052ALU. 350N<br>5154ALU. 500N<br>5056ALU. 600N   |
|                        | 6,00  | 1,00     | 4,20 - 5,00 | 1,55      | 2,5 - 2,6               | 2,00 - 4,00                 |                                                                    |                                                                    |
|                        | 8,00  | 1,00     | 4,20 - 5,00 | 1,55      | 2,5 - 2,6               | 4,00 - 6,00                 |                                                                    |                                                                    |
|                        | 10,00 | 1,00     | 4,20 - 5,00 | 1,55      | 2,5 - 2,6               | 6,00 - 8,00                 |                                                                    |                                                                    |
|                        | 12,00 | 1,00     | 4,20 - 5,00 | 1,55      | 2,5 - 2,6               | 7,00 - 9,50                 |                                                                    |                                                                    |
|                        | 14,00 | 1,00     | 4,20 - 5,00 | 1,55      | 2,5 - 2,6               | 8,00 - 11,50                |                                                                    |                                                                    |
|                        | 16,00 | 1,00     | 4,20 - 5,00 | 1,55      | 2,5 - 2,6               | 10,00 - 13,00               |                                                                    |                                                                    |
| 3,00<br>(+0,08 - 0,15) | 6,00  | 1,30     | 5,40 - 6,30 | 2,00      | 3,10 - 3,20             | 1,50 - 3,50                 | 5050ALU. 300N<br>5052ALU. 400N<br>5154ALU. 550N<br>5056ALU. 750N   | 5050ALU. 400N<br>5052ALU. 550N<br>5154ALU. 700N<br>5056ALU. 900N   |
|                        | 8,00  | 1,30     | 5,40 - 6,30 | 2,00      | 3,10 - 3,20             | 3,50 - 5,00                 |                                                                    |                                                                    |
|                        | 10,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,10 - 3,20             | 5,00 - 7,00                 |                                                                    |                                                                    |
|                        | 12,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,10 - 3,20             | 7,00 - 9,00                 |                                                                    |                                                                    |
|                        | 14,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,10 - 3,20             | 9,00 - 11,00                |                                                                    |                                                                    |
|                        | 16,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,10 - 3,20             | 9,00 - 12,50                |                                                                    |                                                                    |
|                        | 18,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,10 - 3,20             | 12,00 - 14,50               |                                                                    |                                                                    |
| 3,20<br>(+0,08 - 0,15) | 20,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,10 - 3,20             | 13,00 - 16,50               | 5050ALU. 400N<br>5052ALU. 500N<br>5154ALU. 750N<br>5056ALU. 850N   | 5050ALU. 500N<br>5052ALU. 700N<br>5154ALU. 1000N<br>5056ALU. 1100N |
|                        | 6,00  | 1,30     | 5,80 - 6,70 | 2,00      | 3,30 - 3,40             | 1,00 - 3,50                 |                                                                    |                                                                    |
|                        | 8,00  | 1,30     | 5,80 - 6,70 | 2,00      | 3,30 - 3,40             | 3,50 - 5,00                 |                                                                    |                                                                    |
|                        | 10,00 | 1,30     | 5,80 - 6,70 | 2,00      | 3,30 - 3,40             | 5,00 - 7,00                 |                                                                    |                                                                    |
|                        | 12,00 | 1,30     | 5,80 - 6,70 | 2,00      | 3,30 - 3,40             | 7,00 - 9,00                 |                                                                    |                                                                    |
|                        | 14,00 | 1,30     | 5,80 - 6,70 | 2,00      | 3,30 - 3,40             | 9,00 - 11,00                |                                                                    |                                                                    |
|                        | 16,00 | 1,30     | 5,80 - 6,70 | 2,00      | 3,30 - 3,40             | 9,00 - 12,50                |                                                                    |                                                                    |
| 4,00<br>(+0,08 - 0,15) | 18,00 | 1,30     | 5,80 - 6,70 | 2,00      | 3,30 - 3,40             | 12,00 - 14,50               | 5050ALU. 400N<br>5052ALU. 500N<br>5154ALU. 1100N<br>5056ALU. 1400N | 5050ALU. 400N<br>5052ALU. 500N<br>5154ALU. 1100N<br>5056ALU. 1400N |
|                        | 20,00 | 1,30     | 5,80 - 6,70 | 2,00      | 3,30 - 3,40             | 13,00 - 16,00               |                                                                    |                                                                    |
|                        | 25,00 | 1,30     | 5,80 - 6,70 | 2,00      | 3,30 - 3,40             | 15,00 - 21,00               |                                                                    |                                                                    |
|                        | 6,00  | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 1,00 - 3,00                 |                                                                    |                                                                    |
|                        | 8,00  | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 3,00 - 5,00                 |                                                                    |                                                                    |
|                        | 10,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 4,00 - 6,50                 |                                                                    |                                                                    |
|                        | 12,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 6,00 - 8,50                 |                                                                    |                                                                    |
| 4,00<br>(+0,08 - 0,15) | 14,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 7,00 - 10,50                | 5050ALU. 400N<br>5052ALU. 500N<br>5154ALU. 1100N<br>5056ALU. 1400N | 5050ALU. 400N<br>5052ALU. 500N<br>5154ALU. 1100N<br>5056ALU. 1400N |
|                        | 16,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 8,00 - 12,50                |                                                                    |                                                                    |
|                        | 18,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 10,00 - 14,50               |                                                                    |                                                                    |
|                        | 20,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 12,00 - 16,00               |                                                                    |                                                                    |
|                        | 25,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 16,00 - 21,00               |                                                                    |                                                                    |
|                        | 30,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 21,00 - 26,00               |                                                                    |                                                                    |
|                        | 35,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 26,00 - 30,50               |                                                                    |                                                                    |
| 4,00<br>(+0,08 - 0,15) | 40,00 | 1,70     | 6,90 - 8,4  | 2,45      | 4,10 - 4,20             | 30,50 - 35,00               | 5050ALU. 400N<br>5052ALU. 500N<br>5154ALU. 1100N<br>5056ALU. 1400N | 5050ALU. 400N<br>5052ALU. 500N<br>5154ALU. 1100N<br>5056ALU. 1400N |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                    |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                    |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                    |

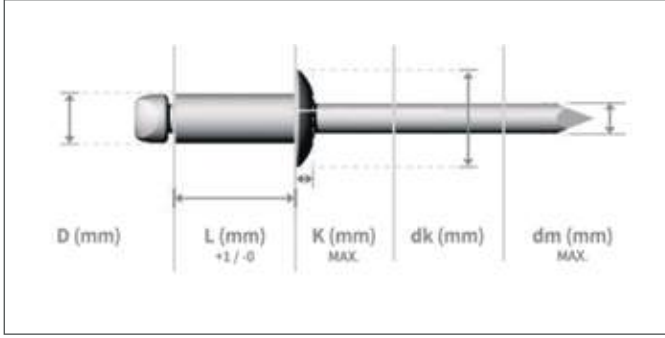
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK AÇIK TİP PERÇİN

ALUMINUM / STEEL OPEN END BLIND RIVET



|  | HAMMADDE<br>MATERIAL                         | YÜZEY<br>FINISH                |
|--|----------------------------------------------|--------------------------------|
|  | 5050ALU.<br>5052ALU.<br>5154ALU.<br>5056ALU. | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel                               | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk           | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min                                   | Çekme Dayanımı<br>Tensile (N)<br>min                                 |
|------------------------|-------|----------|--------------|-----------|-------------------------|-----------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| 4,80<br>(+0,08 - 0,15) | 6,00  | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 1,00 - 2,50                 | 5050ALU. 1300N<br>5052ALU. 1500N<br>5154ALU. 1700N<br>5056ALU. 2000N | 5050ALU. 1500N<br>5052ALU. 1800N<br>5154ALU. 2500N<br>5056ALU. 3000N |
|                        | 8,00  | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 2,50 - 4,00                 |                                                                      |                                                                      |
|                        | 10,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 4,00 - 6,00                 |                                                                      |                                                                      |
|                        | 12,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 6,00 - 8,00                 |                                                                      |                                                                      |
|                        | 14,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 8,00 - 10,00                |                                                                      |                                                                      |
|                        | 16,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 8,00 - 12,00                |                                                                      |                                                                      |
|                        | 18,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 10,00 - 14,00               |                                                                      |                                                                      |
|                        | 20,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 12,00 - 16,00               |                                                                      |                                                                      |
|                        | 25,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 16,00 - 21,00               |                                                                      |                                                                      |
|                        | 30,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 21,00 - 25,00               |                                                                      |                                                                      |
|                        | 35,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 25,00 - 30,00               |                                                                      |                                                                      |
|                        | 40,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 30,00 - 35,00               |                                                                      |                                                                      |
|                        | 45,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 35,00 - 40,00               |                                                                      |                                                                      |
|                        | 50,00 | 2,00     | 8,30 - 10,10 | 2,95      | 4,90 - 5,00             | 40,00 - 45,00               |                                                                      |                                                                      |
| 5,00<br>(+0,08 - 0,15) | 6,00  | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 1,00 - 2,50                 | 5050ALU. 1500N<br>5052ALU. 1700N<br>5154ALU. 1950N<br>5056ALU. 2200N | 5050ALU. 1700N<br>5052ALU. 2000N<br>5154ALU. 2950N<br>5056ALU. 3400N |
|                        | 8,00  | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 2,50 - 4,00                 |                                                                      |                                                                      |
|                        | 10,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 4,00 - 6,00                 |                                                                      |                                                                      |
|                        | 12,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 6,00 - 8,00                 |                                                                      |                                                                      |
|                        | 14,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 8,00 - 10,00                |                                                                      |                                                                      |
|                        | 16,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 8,00 - 12,00                |                                                                      |                                                                      |
|                        | 18,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 10,00 - 14,00               |                                                                      |                                                                      |
|                        | 20,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 12,00 - 16,00               |                                                                      |                                                                      |
|                        | 25,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 16,00 - 21,00               |                                                                      |                                                                      |
|                        | 30,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 21,00 - 25,00               |                                                                      |                                                                      |
|                        | 35,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 25,00 - 30,00               |                                                                      |                                                                      |
|                        | 40,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 30,00 - 35,00               |                                                                      |                                                                      |
|                        | 45,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 35,00 - 40,00               |                                                                      |                                                                      |
|                        | 50,00 | 2,10     | 8,70 - 10,50 | 2,95      | 5,10 - 5,20             | 40,00 - 45,00               |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |              |           |                         |                             |                                                                      |                                                                      |

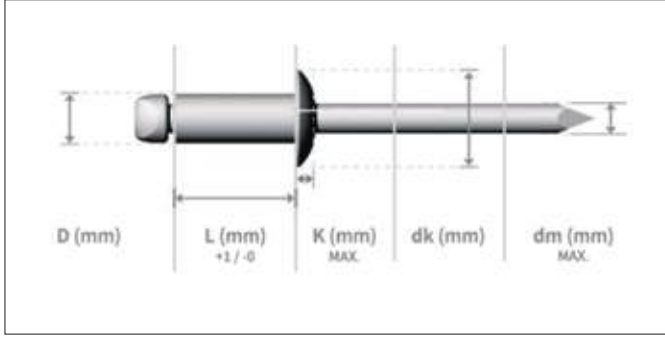
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK AÇIK TİP PERÇİN

ALUMINUM / STEEL OPEN END BLIND RIVET



|  | HAMMADDE<br>MATERIAL                         | YÜZEY<br>FINISH                |
|--|----------------------------------------------|--------------------------------|
|  | 5050ALU.<br>5052ALU.<br>5154ALU.<br>5056ALU. | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel                               | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

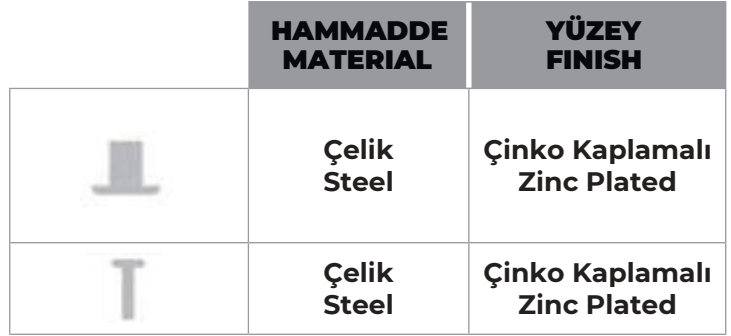
| d                      | l     | k<br>max | dk            | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min                                   | Çekme Dayanımı<br>Tensile (N)<br>min                                 |
|------------------------|-------|----------|---------------|-----------|-------------------------|-----------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| 6,00<br>(+0,08 - 0,15) | 8,00  | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 1,50 - 3,00                 | 5050ALU. 2000N<br>5052ALU. 2200N<br>5154ALU. 3200N<br>5056ALU. 3600N | 5050ALU. 2500N<br>5052ALU. 2900N<br>5154ALU. 4200N<br>5056ALU. 4600N |
|                        | 10,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 2,00 - 4,00                 |                                                                      |                                                                      |
|                        | 12,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 3,00 - 6,00                 |                                                                      |                                                                      |
|                        | 14,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 6,00 - 8,00                 |                                                                      |                                                                      |
|                        | 16,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 6,00 - 10,00                |                                                                      |                                                                      |
|                        | 18,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 8,00 - 12,00                |                                                                      |                                                                      |
|                        | 20,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 10,00 - 14,00               |                                                                      |                                                                      |
|                        | 25,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 14,00 - 18,00               |                                                                      |                                                                      |
|                        | 30,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 18,00 - 23,00               |                                                                      |                                                                      |
|                        | 35,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 23,00 - 28,00               |                                                                      |                                                                      |
|                        | 40,00 | 2,70     | 11,60 - 13,40 | 3,40      | 6,50 - 6,60             | 28,00 - 33,00               |                                                                      |                                                                      |
| 6,40<br>(+0,08 - 0,15) | 8,00  | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 1,50 - 3,00                 | 5050ALU. 2200N<br>5052ALU. 2700N<br>5154ALU. 3400N<br>5056ALU. 3800N | 5050ALU. 3000N<br>5052ALU. 3400N<br>5154ALU. 4850N<br>5056ALU. 5200N |
|                        | 10,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 2,00 - 4,00                 |                                                                      |                                                                      |
|                        | 12,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 3,00 - 6,00                 |                                                                      |                                                                      |
|                        | 14,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 6,00 - 8,00                 |                                                                      |                                                                      |
|                        | 16,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 6,00 - 10,00                |                                                                      |                                                                      |
|                        | 18,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 8,00 - 12,00                |                                                                      |                                                                      |
|                        | 20,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 10,00 - 14,00               |                                                                      |                                                                      |
|                        | 25,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 14,00 - 18,00               |                                                                      |                                                                      |
|                        | 30,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 18,00 - 23,00               |                                                                      |                                                                      |
|                        | 35,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 23,00 - 28,00               |                                                                      |                                                                      |
|                        | 40,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 28,00 - 33,00               |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

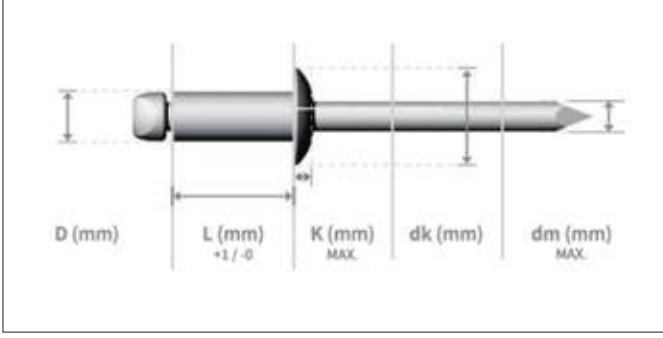
## STEEL / STEEL OPEN END BLIND RIVET



Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# ÇELİK / ÇELİK AÇIK TİP PERÇİN

STEEL / STEEL OPEN END BLIND RIVET



|  | HAMMADDE<br>MATERIAL | YÜZEY<br>FINISH                |
|--|----------------------|--------------------------------|
|  | Çelik<br>Steel       | Çinko Kaplamalı<br>Zinc Plated |
|  | Çelik<br>Steel       | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk    | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|-------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 4,80<br>(+0,08 - 0,15) | 6,00  | 2,00     | 10,10 | 3,10      | 4,90 - 5,00             | 1,00 - 2,50                 | 2.900                              | 3.100                                |
|                        | 8,00  | 2,00     | 10,10 | 3,10      | 4,90 - 5,01             | 2,50 - 4,00                 | 2.900                              | 3.100                                |
|                        | 10,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,02             | 4,00 - 6,00                 | 2.900                              | 3.100                                |
|                        | 12,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,03             | 6,00 - 8,00                 | 2.900                              | 3.100                                |
|                        | 14,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,04             | 8,00 - 10,00                | 2.900                              | 3.100                                |
|                        | 16,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,05             | 9,00 - 12,00                | 2.900                              | 3.100                                |
|                        | 18,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,06             | 10,00 - 14,00               | 2.900                              | 3.100                                |
|                        | 20,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,07             | 12,00 - 16,00               | 2.900                              | 3.100                                |
|                        | 25,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,08             | 16,00 - 21,00               | 2.900                              | 3.100                                |
|                        | 30,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,09             | 21,00 - 25,00               | 2.900                              | 3.100                                |
|                        | 35,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,10             | 25,00 - 30,00               | 2.900                              | 3.100                                |
|                        | 40,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,11             | 30,00 - 35,00               | 2.900                              | 3.100                                |
|                        | 45,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,12             | 35,00 - 40,00               | 2.900                              | 3.100                                |
|                        | 50,00 | 2,00     | 10,10 | 3,10      | 4,90 - 5,13             | 40,00 - 45,00               | 2.900                              | 3.100                                |
| 6,40<br>(+0,08 - 0,15) | 8,00  | 2,70     | 13,40 | 4,20      | 6,50 - 6,60             | 1,50 - 3,00                 | 4.900                              | 5.700                                |
|                        | 10,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,61             | 2,00 - 4,00                 | 4.900                              | 5.700                                |
|                        | 12,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,62             | 3,00 - 6,00                 | 4.900                              | 5.700                                |
|                        | 14,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,63             | 6,00 - 8,00                 | 4.900                              | 5.700                                |
|                        | 16,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,64             | 6,00 - 10,00                | 4.900                              | 5.700                                |
|                        | 18,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,65             | 8,00 - 12,00                | 4.900                              | 5.700                                |
|                        | 20,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,66             | 10,00 - 14,00               | 4.900                              | 5.700                                |
|                        | 25,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,67             | 14,00 - 18,00               | 4.900                              | 5.700                                |
|                        | 30,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,68             | 18,00 - 23,00               | 4.900                              | 5.700                                |
|                        | 35,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,69             | 23,00 - 28,00               | 4.900                              | 5.700                                |
|                        | 40,00 | 2,70     | 13,40 | 4,20      | 6,50 - 6,70             | 28,00 - 33,00               | 4.900                              | 5.700                                |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
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|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
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|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |

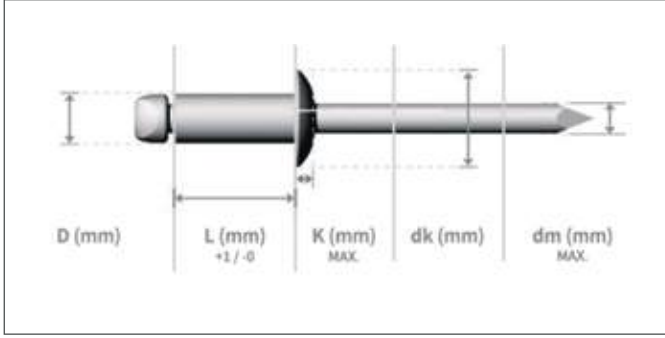
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX / INOX AÇIK TİP PERÇİN

STAINLESS STEEL / STAINLESS STEEL OPEN END RIVET



|  | HAMMADDE<br>MATERIAL    | YÜZEY<br>FINISH         |
|--|-------------------------|-------------------------|
|  | Inox<br>Stainless Steel | Parlatılmış<br>Polished |
|  | Inox<br>Stainless Steel | Parlatılmış<br>Polished |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk          | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|-------------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 3,00<br>(+0,08 - 0,15) | 6,00  | 1,30     | 5,40 - 6,30 | 2,10      | 3,10 - 3,20             | 1,00 - 3,50                 | 1.800                              | 2.200                                |
|                        | 8,00  | 1,30     | 5,40 - 6,30 | 2,10      | 3,10 - 3,20             | 3,50 - 5,00                 | 1.800                              | 2.200                                |
|                        | 10,00 | 1,30     | 5,40 - 6,30 | 2,10      | 3,10 - 3,20             | 5,00 - 7,00                 | 1.800                              | 2.200                                |
|                        | 12,00 | 1,30     | 5,40 - 6,30 | 2,10      | 3,10 - 3,20             | 7,00 - 9,00                 | 1.800                              | 2.200                                |
|                        | 14,00 | 1,30     | 5,40 - 6,30 | 2,10      | 3,10 - 3,20             | 9,00 - 11,00                | 1.800                              | 2.200                                |
|                        | 16,00 | 1,30     | 5,40 - 6,30 | 2,10      | 3,10 - 3,20             | 9,00 - 12,50                | 1.800                              | 2.200                                |
|                        | 18,00 | 1,30     | 5,40 - 6,30 | 2,10      | 3,10 - 3,20             | 12,00 - 14,50               | 1.800                              | 2.200                                |
|                        | 20,00 | 1,30     | 5,40 - 6,30 | 2,10      | 3,10 - 3,20             | 13,00 - 16,50               | 1.800                              | 2.200                                |
| 3,20<br>(+0,08 - 0,15) | 6,00  | 1,30     | 5,80 - 6,70 | 2,10      | 3,30 - 3,40             | 1,00 - 3,50                 | 1.900                              | 2.500                                |
|                        | 8,00  | 1,30     | 5,80 - 6,70 | 2,10      | 3,30 - 3,40             | 3,50 - 5,00                 | 1.900                              | 2.500                                |
|                        | 10,00 | 1,30     | 5,80 - 6,70 | 2,10      | 3,30 - 3,40             | 5,00 - 7,00                 | 1.900                              | 2.500                                |
|                        | 12,00 | 1,30     | 5,80 - 6,70 | 2,10      | 3,30 - 3,40             | 7,00 - 9,00                 | 1.900                              | 2.500                                |
|                        | 14,00 | 1,30     | 5,80 - 6,70 | 2,10      | 3,30 - 3,40             | 9,00 - 11,00                | 1.900                              | 2.500                                |
|                        | 16,00 | 1,30     | 5,80 - 6,70 | 2,10      | 3,30 - 3,40             | 9,00 - 12,50                | 1.900                              | 2.500                                |
|                        | 18,00 | 1,30     | 5,80 - 6,70 | 2,10      | 3,30 - 3,40             | 12,00 - 14,50               | 1.900                              | 2.500                                |
|                        | 20,00 | 1,30     | 5,80 - 6,70 | 2,10      | 3,30 - 3,40             | 13,00 - 16,50               | 1.900                              | 2.500                                |
|                        | 25,00 | 1,30     | 5,80 - 6,70 | 2,10      | 3,30 - 3,40             | 15,00 - 21,50               | 1.900                              | 2.500                                |
| 4,00<br>(+0,08 - 0,15) | 6,00  | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 1,00 - 3,00                 | 2.700                              | 3.500                                |
|                        | 8,00  | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 3,00 - 5,00                 | 2.700                              | 3.500                                |
|                        | 10,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 4,00 - 6,50                 | 2.700                              | 3.500                                |
|                        | 12,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 6,00 - 8,50                 | 2.700                              | 3.500                                |
|                        | 14,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 7,00 - 10,50                | 2.700                              | 3.500                                |
|                        | 16,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 8,00 - 12,50                | 2.700                              | 3.500                                |
|                        | 18,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 10,00 - 14,50               | 2.700                              | 3.500                                |
|                        | 20,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 12,00 - 16,00               | 2.700                              | 3.500                                |
|                        | 25,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 16,00 - 21,00               | 2.700                              | 3.500                                |
|                        | 30,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 21,00 - 26,00               | 2.700                              | 3.500                                |
|                        | 35,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 26,00 - 30,50               | 2.700                              | 3.500                                |
|                        | 40,00 | 1,70     | 6,90 - 8,40 | 2,60      | 4,10 - 4,20             | 30,50 - 35,00               | 2.700                              | 3.500                                |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |
|                        |       |          |             |           |                         |                             |                                    |                                      |

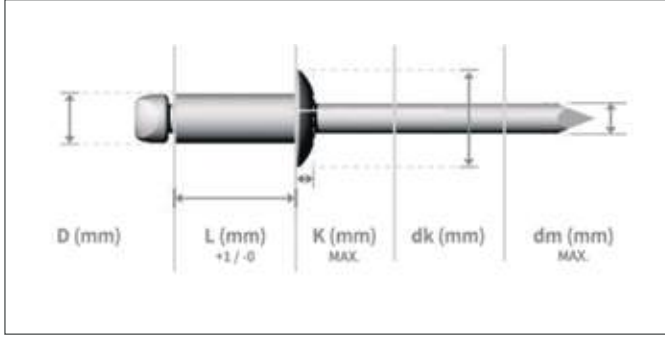
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX / INOX AÇIK TİP PERÇİN

STAINLESS STEEL / STAINLESS STEEL OPEN END RIVET



|  | HAMMADDE<br>MATERIAL    | YÜZEY<br>FINISH         |
|--|-------------------------|-------------------------|
|  | Inox<br>Stainless Steel | Parlatılmış<br>Polished |
|  | Inox<br>Stainless Steel | Parlatılmış<br>Polished |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk           | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|--------------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 4,80<br>(+0,08 - 0,15) | 6,00  | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 1,00 - 2,50                 | 4.000                              | 5.000                                |
|                        | 8,00  | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 2,50 - 4,00                 | 4.000                              | 5.000                                |
|                        | 10,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 4,00 - 6,00                 | 4.000                              | 5.000                                |
|                        | 12,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 6,00 - 8,00                 | 4.000                              | 5.000                                |
|                        | 14,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 8,00 - 10,00                | 4.000                              | 5.000                                |
|                        | 16,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 9,00 - 12,00                | 4.000                              | 5.000                                |
|                        | 18,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 10,00 - 14,00               | 4.000                              | 5.000                                |
|                        | 20,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 12,00 - 16,00               | 4.000                              | 5.000                                |
|                        | 25,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 16,00 - 21,00               | 4.000                              | 5.000                                |
|                        | 30,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 21,00 - 25,00               | 4.000                              | 5.000                                |
|                        | 35,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 25,00 - 30,00               | 4.000                              | 5.000                                |
|                        | 40,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 30,00 - 35,00               | 4.000                              | 5.000                                |
|                        | 45,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 35,00 - 40,00               | 4.000                              | 5.000                                |
|                        | 50,00 | 2,00     | 8,30 - 10,10 | 3,10      | 4,90 - 5,00             | 40,00 - 45,00               | 4.000                              | 5.000                                |
| 6,40<br>(+0,08 - 0,15) | 8,00  | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 1,50 - 3,00                 | 7.500                              | 9.300                                |
|                        | 10,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 2,00 - 4,00                 | 7.500                              | 9.300                                |
|                        | 12,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 3,00 - 6,00                 | 7.500                              | 9.300                                |
|                        | 14,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 6,00 - 8,00                 | 7.500                              | 9.300                                |
|                        | 16,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 6,00 - 10,00                | 7.500                              | 9.300                                |
|                        | 18,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 8,00 - 12,00                | 7.500                              | 9.300                                |
|                        | 20,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 10,00 - 14,00               | 7.500                              | 9.300                                |
|                        | 25,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 14,00 - 18,00               | 7.500                              | 9.300                                |
|                        | 30,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 18,00 - 23,00               | 7.500                              | 9.300                                |
|                        | 35,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 23,00 - 28,00               | 7.500                              | 9.300                                |
|                        | 40,00 | 2,70     | 11,6 - 13,40 | 4,20      | 6,50 - 6,60             | 28,00 - 33,00               | 7.500                              | 9.300                                |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |

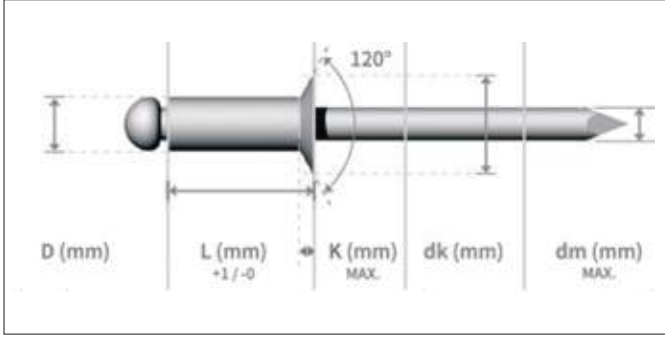
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK AÇIK TİP HAVŞA PERÇİN

ALUMINUM / STEEL OPEN END CSK HEAD BLIND RIVET



|  | HAMMADDE<br>MATERIAL                         | YÜZEY<br>FINISH                |
|--|----------------------------------------------|--------------------------------|
|  | 5050ALU.<br>5052ALU.<br>5154ALU.<br>5056ALU. | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel                               | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk          | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min                                 | Çekme Dayanımı<br>Tensile (N)<br>min                                 |
|------------------------|-------|----------|-------------|-----------|-------------------------|-----------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|
| 2,40<br>(+0,08 - 0,10) | 4,00  | 1,00     | 4,20 - 4,80 | 1,55      | 2,50 - 2,60             | 0,50 - 2,00                 | 5050ALU. 180N<br>5052ALU. 250N<br>5154ALU. 350N<br>5056ALU. 450N   | 5050ALU. 180N<br>5052ALU. 350N<br>5154ALU. 500N<br>5056ALU. 600N     |
|                        | 6,00  | 1,00     | 4,20 - 4,80 | 1,55      | 2,50 - 2,60             | 2,00 - 4,00                 |                                                                    |                                                                      |
|                        | 8,00  | 1,00     | 4,20 - 4,80 | 1,55      | 2,50 - 2,60             | 4,00 - 6,00                 |                                                                    |                                                                      |
|                        | 10,00 | 1,00     | 4,20 - 4,80 | 1,55      | 2,50 - 2,60             | 6,00 - 8,00                 |                                                                    |                                                                      |
|                        | 12,00 | 1,00     | 4,20 - 4,80 | 1,55      | 2,50 - 2,60             | 7,00 - 9,50                 |                                                                    |                                                                      |
|                        | 14,00 | 1,00     | 4,20 - 4,80 | 1,55      | 2,50 - 2,60             | 8,00 - 11,50                |                                                                    |                                                                      |
|                        | 16,00 | 1,00     | 4,20 - 4,80 | 1,55      | 2,50 - 2,60             | 10,00 - 13,00               |                                                                    |                                                                      |
| 3,20<br>(+0,08 - 0,15) | 6,00  | 1,30     | 5,40 - 6,30 | 2,00      | 3,30 - 3,40             | 1,00 - 3,50                 | 5050ALU. 400N<br>5052ALU. 500N<br>5154ALU. 750N<br>5056ALU. 850N   | 5050ALU. 500N<br>5052ALU. 700N<br>5154ALU. 1000N<br>5056ALU. 1100N   |
|                        | 8,00  | 1,30     | 5,40 - 6,30 | 2,00      | 3,30 - 3,40             | 3,50 - 5,00                 |                                                                    |                                                                      |
|                        | 10,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,30 - 3,40             | 5,00 - 7,00                 |                                                                    |                                                                      |
|                        | 12,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,30 - 3,40             | 7,00 - 9,00                 |                                                                    |                                                                      |
|                        | 14,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,30 - 3,40             | 9,00 - 11,00                |                                                                    |                                                                      |
|                        | 16,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,30 - 3,40             | 9,00 - 12,50                |                                                                    |                                                                      |
|                        | 18,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,30 - 3,40             | 12,00 - 14,50               |                                                                    |                                                                      |
|                        | 20,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,30 - 3,40             | 13,00 - 16,50               |                                                                    |                                                                      |
| 4,00<br>(+0,08 - 0,15) | 25,00 | 1,30     | 5,40 - 6,30 | 2,00      | 3,30 - 3,40             | 15,00 - 21,00               | 5050ALU. 800N<br>5052ALU. 850N<br>5154ALU. 1100N<br>5056ALU. 1400N | 5050ALU. 1000N<br>5052ALU. 1200N<br>5154ALU. 1700N<br>5056ALU. 2000N |
|                        | 6,00  | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 1,00 - 3,00                 |                                                                    |                                                                      |
|                        | 8,00  | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 3,00 - 5,00                 |                                                                    |                                                                      |
|                        | 10,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 4,00 - 6,50                 |                                                                    |                                                                      |
|                        | 12,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 6,00 - 8,50                 |                                                                    |                                                                      |
|                        | 14,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 7,00 - 10,50                |                                                                    |                                                                      |
|                        | 16,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 8,00 - 12,50                |                                                                    |                                                                      |
|                        | 18,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 10,00 - 14,50               |                                                                    |                                                                      |
|                        | 20,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 12,00 - 16,00               |                                                                    |                                                                      |
|                        | 25,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 16,00 - 21,00               |                                                                    |                                                                      |
|                        | 30,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 21,00 - 26,00               |                                                                    |                                                                      |
|                        | 35,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 26,00 - 30,50               |                                                                    |                                                                      |
|                        | 40,00 | 1,70     | 6,90 - 7,50 | 2,45      | 4,10 - 4,20             | 30,50 - 35,00               |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |             |           |                         |                             |                                                                    |                                                                      |

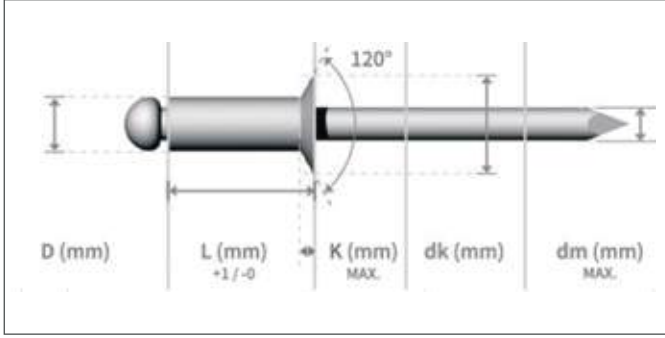
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK AÇIK TİP HAVŞA PERÇİN

ALUMINUM / STEEL OPEN END CSK HEAD BLIND RIVET



|  | HAMMADDE<br>MATERIAL                         | YÜZEY<br>FINISH                |
|--|----------------------------------------------|--------------------------------|
|  | 5050ALU.<br>5052ALU.<br>5154ALU.<br>5056ALU. | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel                               | Çinko Kaplamalı<br>Zinc Plated |

| d                      | l     | k<br>max | dk            | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min                                   | Çekme Dayanımı<br>Tensile (N)<br>min                                 |
|------------------------|-------|----------|---------------|-----------|-------------------------|-----------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| 4,80<br>(+0,08 - 0,15) | 6,00  | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 1,00 - 2,50                 | 5050ALU. 1300N<br>5052ALU. 1500N<br>5154ALU. 1700N<br>5056ALU. 2000N | 5050ALU. 1500N<br>5052ALU. 1800N<br>5154ALU. 2500N<br>5056ALU. 3000N |
|                        | 8,00  | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 2,50 - 4,00                 |                                                                      |                                                                      |
|                        | 10,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 4,00 - 6,00                 |                                                                      |                                                                      |
|                        | 12,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 6,00 - 8,00                 |                                                                      |                                                                      |
|                        | 14,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 8,00 - 10,00                |                                                                      |                                                                      |
|                        | 16,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 8,00 - 12,00                |                                                                      |                                                                      |
|                        | 18,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 10,00 - 14,00               |                                                                      |                                                                      |
|                        | 20,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 12,00 - 16,00               |                                                                      |                                                                      |
|                        | 25,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 16,00 - 21,00               |                                                                      |                                                                      |
|                        | 30,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 21,00 - 25,00               |                                                                      |                                                                      |
|                        | 35,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 25,00 - 30,50               |                                                                      |                                                                      |
|                        | 40,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 30,00 - 35,00               |                                                                      |                                                                      |
|                        | 45,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 35,00 - 40,00               |                                                                      |                                                                      |
|                        | 50,00 | 2,00     | 8,30 - 9,50   | 2,95      | 4,90 - 5,00             | 40,00 - 45,00               |                                                                      |                                                                      |
| 6,40<br>(+0,08 - 0,15) | 8,00  | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 1,50 - 3,00                 | 5050ALU. 2200N<br>5052ALU. 2700N<br>5154ALU. 3400N<br>5056ALU. 3800N | 5050ALU. 3000N<br>5052ALU. 3400N<br>5154ALU. 4850N<br>5056ALU. 5200N |
|                        | 10,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 2,00 - 4,00                 |                                                                      |                                                                      |
|                        | 12,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 3,00 - 6,00                 |                                                                      |                                                                      |
|                        | 14,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 6,00 - 8,00                 |                                                                      |                                                                      |
|                        | 16,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 6,00 - 10,00                |                                                                      |                                                                      |
|                        | 18,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 8,00 - 12,00                |                                                                      |                                                                      |
|                        | 20,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 10,00 - 14,00               |                                                                      |                                                                      |
|                        | 25,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 14,00 - 18,00               |                                                                      |                                                                      |
|                        | 30,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 18,00 - 23,00               |                                                                      |                                                                      |
|                        | 35,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 23,00 - 28,00               |                                                                      |                                                                      |
|                        | 40,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 28,00 - 33,00               |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |               |           |                         |                             |                                                                      |                                                                      |

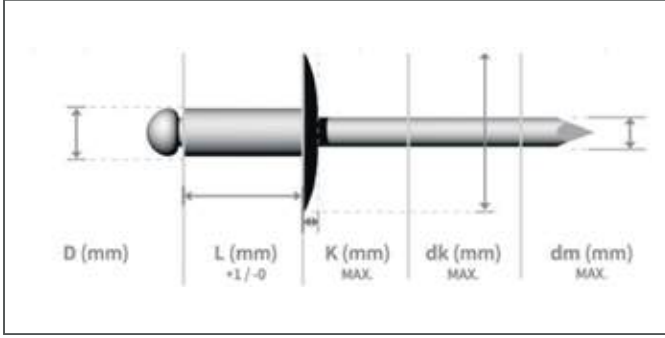
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK AÇIK TİP GENİŞ PERÇİN

ALUMINUM / STEEL OPEN END LARGE HEAD BLIND RIVET



|  | HAMMADDE<br>MATERIAL                         | YÜZEY<br>FINISH                |
|--|----------------------------------------------|--------------------------------|
|  | 5050ALU.<br>5052ALU.<br>5154ALU.<br>5056ALU. | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel                               | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk    | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min                                 | Çekme Dayanımı<br>Tensile (N)<br>min                                 |
|------------------------|-------|----------|-------|-----------|-------------------------|-----------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|
| 3,20<br>(+0,08 - 0,15) | 6,00  | 2,00     | 9,50  | 2,00      | 3,30 - 3,40             | 1,00 - 3,50                 | 5050ALU. 400N<br>5052ALU.500N<br>5154ALU. 750N<br>5056ALU. 850N    | 5050ALU. 500N<br>5052ALU.700N<br>5154ALU. 1000N<br>5056ALU. 1100N    |
|                        | 8,00  | 2,00     | 9,50  | 2,00      | 3,30 - 3,40             | 3,50 - 5,00                 |                                                                    |                                                                      |
|                        | 10,00 | 2,00     | 9,50  | 2,00      | 3,30 - 3,40             | 5,00 - 7,00                 |                                                                    |                                                                      |
|                        | 12,00 | 2,00     | 9,50  | 2,00      | 3,30 - 3,40             | 7,00 - 9,00                 |                                                                    |                                                                      |
|                        | 14,00 | 2,00     | 9,50  | 2,00      | 3,30 - 3,40             | 9,00 - 11,00                |                                                                    |                                                                      |
|                        | 16,00 | 2,00     | 9,50  | 2,00      | 3,30 - 3,40             | 9,00 - 12,50                |                                                                    |                                                                      |
|                        | 18,00 | 2,00     | 9,50  | 2,00      | 3,30 - 3,40             | 12,00 - 14,50               |                                                                    |                                                                      |
|                        | 20,00 | 2,00     | 9,50  | 2,00      | 3,30 - 3,40             | 13,00 - 16,50               |                                                                    |                                                                      |
|                        | 25,00 | 2,00     | 9,50  | 2,00      | 3,30 - 3,40             | 15,00 - 21,00               |                                                                    |                                                                      |
| 4,00<br>(+0,08 - 0,15) | 6,00  | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 1,00 - 3,50                 | 5050ALU. 800N<br>5052ALU. 850N<br>5154ALU. 1100N<br>5056ALU. 1400N | 5050ALU. 1000N<br>5052ALU. 1200N<br>5154ALU. 1700N<br>5056ALU. 2000N |
|                        | 8,00  | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 3,00 - 5,00                 |                                                                    |                                                                      |
|                        | 10,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 5,00 - 6,50                 |                                                                    |                                                                      |
|                        | 12,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 6,00 - 8,50                 |                                                                    |                                                                      |
|                        | 14,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 7,00 - 10,50                |                                                                    |                                                                      |
|                        | 16,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 8,00 - 12,50                |                                                                    |                                                                      |
|                        | 18,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 10,00 - 14,50               |                                                                    |                                                                      |
|                        | 20,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 12,00 - 16,00               |                                                                    |                                                                      |
|                        | 25,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 16,00 - 21,00               |                                                                    |                                                                      |
|                        | 30,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 21,00 - 26,00               |                                                                    |                                                                      |
|                        | 35,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 26,00 - 30,50               |                                                                    |                                                                      |
|                        | 40,00 | 2,20     | 12,00 | 2,45      | 4,10 - 4,20             | 30,50 - 35,00               |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                    |                                                                      |

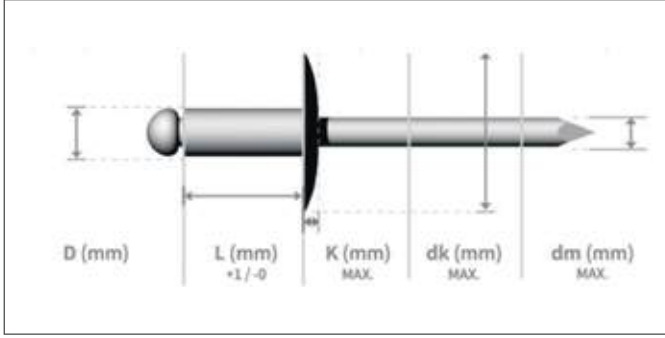
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK AÇIK TİP GENİŞ PERÇİN

ALUMINUM / STEEL OPEN END LARGE HEAD BLIND RIVET



|  | HAMMADDE<br>MATERIAL                         | YÜZEY<br>FINISH                |
|--|----------------------------------------------|--------------------------------|
|  | 5050ALU.<br>5052ALU.<br>5154ALU.<br>5056ALU. | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel                               | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk    | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min                                   | Çekme Dayanımı<br>Tensile (N)<br>min                                 |
|------------------------|-------|----------|-------|-----------|-------------------------|-----------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| 4,80<br>(+0,08 - 0,15) | 6,00  | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 1,00 - 2,50                 | 5050ALU. 1300N<br>5052ALU. 1500N<br>5154ALU. 1700N<br>5056ALU. 2000N | 5050ALU. 1500N<br>5052ALU. 1800N<br>5154ALU. 2500N<br>5056ALU. 3000N |
|                        | 8,00  | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 2,50 - 4,00                 |                                                                      |                                                                      |
|                        | 10,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 4,00 - 6,00                 |                                                                      |                                                                      |
|                        | 12,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 6,00 - 8,00                 |                                                                      |                                                                      |
|                        | 14,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 8,00 - 10,00                |                                                                      |                                                                      |
|                        | 16,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 8,00 - 12,00                |                                                                      |                                                                      |
|                        | 18,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 10,00 - 14,00               |                                                                      |                                                                      |
|                        | 20,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 12,00 - 16,00               |                                                                      |                                                                      |
|                        | 25,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 16,00 - 21,00               |                                                                      |                                                                      |
|                        | 30,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 21,00 - 25,00               |                                                                      |                                                                      |
|                        | 35,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 25,00 - 30,00               |                                                                      |                                                                      |
|                        | 40,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 30,00 - 35,00               |                                                                      |                                                                      |
|                        | 45,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 35,00 - 40,00               |                                                                      |                                                                      |
|                        | 50,00 | 2,50     | 16,00 | 2,95      | 4,90 - 5,00             | 40,00 - 45,00               |                                                                      |                                                                      |
| 6,40<br>(+0,08 - 0,15) | 8,00  | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 1,50 - 3,00                 | 5050ALU. 2200N<br>5052ALU. 2700N<br>5154ALU. 3400N<br>5056ALU. 3800N | 5050ALU. 2000N<br>5052ALU. 3400N<br>5154ALU. 4850N<br>5056ALU. 5200N |
|                        | 10,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 2,00 - 4,00                 |                                                                      |                                                                      |
|                        | 12,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 3,00 - 6,00                 |                                                                      |                                                                      |
|                        | 14,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 6,00 - 8,00                 |                                                                      |                                                                      |
|                        | 16,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 6,00 - 10,00                |                                                                      |                                                                      |
|                        | 18,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 8,00 - 12,00                |                                                                      |                                                                      |
|                        | 20,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 10,00 - 14,00               |                                                                      |                                                                      |
|                        | 25,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 14,00 - 18,00               |                                                                      |                                                                      |
|                        | 30,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 18,00 - 23,00               |                                                                      |                                                                      |
|                        | 35,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 23,00 - 28,00               |                                                                      |                                                                      |
|                        | 40,00 | 3,20     | 19,00 | 3,90      | 6,50 - 6,60             | 28,00 - 33,00               |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |
|                        |       |          |       |           |                         |                             |                                                                      |                                                                      |

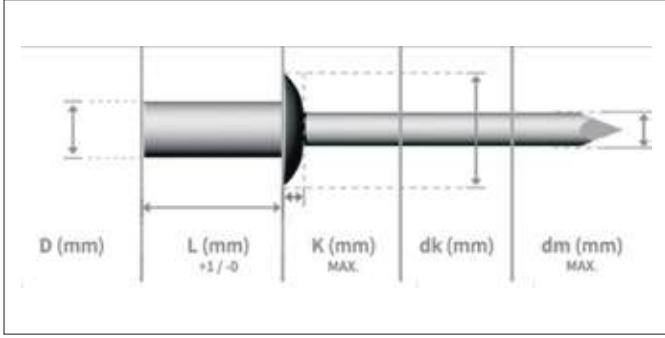
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK KAPALI TİP PERÇİN

ALUMINUM / STEEL CLOSED END BLIND RIVET



|  | HAMMADDE<br>MATERIAL  | YÜZEY<br>FINISH                |
|--|-----------------------|--------------------------------|
|  | Aluminum<br>Alüminyum | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel        | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk            | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|---------------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 3,20<br>(+0,08 - 0,15) | 6,50  | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 0,50 - 2,00                 | 1.100                              | 1.450                                |
|                        | 8,00  | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 2,00 - 3,50                 | 1.100                              | 1.450                                |
|                        | 9,50  | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 3,50 - 5,00                 | 1.100                              | 1.450                                |
|                        | 11,00 | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 5,00 - 6,50                 | 1.100                              | 1.450                                |
|                        | 12,50 | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 6,50 - 8,00                 | 1.100                              | 1.450                                |
| 4,00<br>(+0,08 - 0,15) | 8,00  | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 0,50 - 3,50                 | 1.600                              | 2.200                                |
|                        | 9,50  | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 3,50 - 5,00                 | 1.600                              | 2.200                                |
|                        | 11,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 5,00 - 6,50                 | 1.600                              | 2.200                                |
|                        | 12,50 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 6,50 - 8,00                 | 1.600                              | 2.200                                |
|                        | 15,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 8,00 - 12,50                | 1.600                              | 2.200                                |
| 4,80<br>(+0,08 - 0,15) | 8,00  | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 1,00 - 3,00                 | 2.200                              | 3.100                                |
|                        | 9,50  | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 3,00 - 5,00                 | 2.200                              | 3.100                                |
|                        | 11,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 5,00 - 6,50                 | 2.200                              | 3.100                                |
|                        | 13,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 6,50 - 8,00                 | 2.200                              | 3.100                                |
|                        | 14,50 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 8,00 - 9,50                 | 2.200                              | 3.100                                |
|                        | 16,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 9,50 - 11,00                | 2.200                              | 3.100                                |
|                        | 18,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 11,00 - 13,00               | 2.200                              | 3.100                                |
|                        | 21,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 13,00 - 16,00               | 2.200                              | 3.100                                |
|                        | 25,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 16,00 - 20,00               | 2.200                              | 3.100                                |
| 6,40<br>(+0,08 - 0,15) | 12,50 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 1,50 - 6,00                 | 3.600                              | 4.000                                |
|                        | 16,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 6,00 - 8,50                 | 3.600                              | 4.000                                |
|                        | 18,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 8,50 - 10,50                | 3.600                              | 4.000                                |
|                        | 20,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 10,50 - 12,50               | 3.600                              | 4.000                                |
|                        | 25,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 12,50 - 17,50               | 3.600                              | 4.000                                |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
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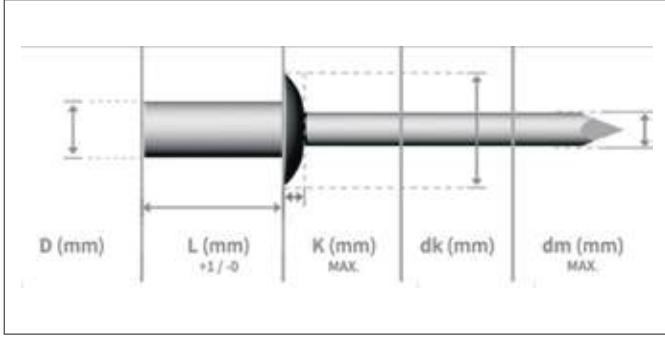
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ÇELİK / ÇELİK KAPALI TİP PERÇİN

STEEL / STEEL CLOSED END RIVET



|  | HAMMADDE<br>MATERIAL | YÜZEY<br>FINISH            |
|--|----------------------|----------------------------|
|  | Çelik<br>Steel       | Çinko Kaplı<br>Zinc Plated |
|  | Çelik<br>Steel       | Çinko Kaplı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk            | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|---------------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 3,20<br>(+0,08 - 0,15) | 6,50  | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 0,50 - 2,00                 | 1.150                              | 1.300                                |
|                        | 8,00  | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 2,00 - 3,50                 | 1.150                              | 1.300                                |
|                        | 9,50  | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 3,50 - 5,00                 | 1.150                              | 1.300                                |
|                        | 11,00 | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 5,00 - 6,50                 | 1.150                              | 1.300                                |
|                        | 12,50 | 1,30     | 5,80 - 6,70   | 2,00      | 3,40 - 3,50             | 6,50 - 8,00                 | 1.150                              | 1.300                                |
| 4,00<br>(+0,08 - 0,15) | 8,00  | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 0,50 - 3,50                 | 1.700                              | 1.550                                |
|                        | 9,50  | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 3,50 - 5,00                 | 1.700                              | 1.550                                |
|                        | 11,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 5,00 - 6,50                 | 1.700                              | 1.550                                |
|                        | 12,50 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 6,50 - 8,00                 | 1.700                              | 1.550                                |
|                        | 15,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 8,00 - 12,50                | 1.700                              | 1.550                                |
| 4,80<br>(+0,08 - 0,15) | 8,00  | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 1,00 - 3,00                 | 2.400                              | 2.800                                |
|                        | 9,50  | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 3,00 - 5,00                 | 2.400                              | 2.800                                |
|                        | 11,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 5,00 - 6,50                 | 2.400                              | 2.800                                |
|                        | 13,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 6,50 - 8,00                 | 2.400                              | 2.800                                |
|                        | 14,50 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 8,00 - 9,50                 | 2.400                              | 2.800                                |
|                        | 16,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 9,50 - 11,00                | 2.400                              | 2.800                                |
|                        | 18,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 11,00 - 13,00               | 2.400                              | 2.800                                |
|                        | 21,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 13,00 - 16,00               | 2.400                              | 2.800                                |
|                        | 25,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 5,00             | 16,00 - 20,00               | 2.400                              | 2.800                                |
| 6,40<br>(+0,08 - 0,15) | 12,50 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 1,50 - 6,00                 | 3.600                              | 4.000                                |
|                        | 16,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 6,00 - 8,50                 | 3.600                              | 4.000                                |
|                        | 18,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 8,50 - 10,50                | 3.600                              | 4.000                                |
|                        | 20,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 10,50 - 12,50               | 3.600                              | 4.000                                |
|                        | 25,00 | 2,70     | 11,60 - 13,40 | 3,90      | 6,50 - 6,60             | 12,50 - 17,50               | 3.600                              | 4.000                                |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |

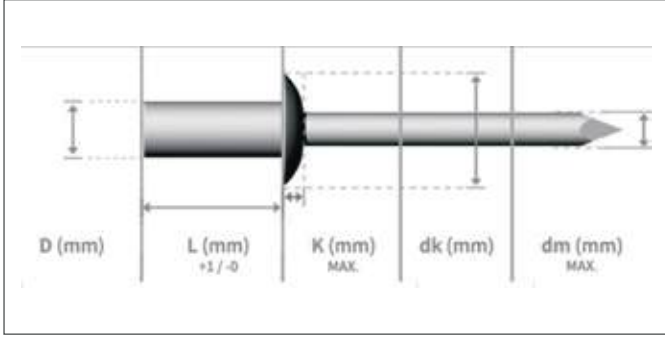
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX / INOX KAPALI TİP PERÇİN

STAINLESS STEEL / STAINLESS STEEL CLOSED END RIVET



|  | HAMMADDE<br>MATERIAL    | YÜZEY<br>FINISH         |
|--|-------------------------|-------------------------|
|  | Inox<br>Stainless Steel | Parlatılmış<br>Polished |
|  | Inox<br>Stainless Steel | Parlatılmış<br>Polished |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk           | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|--------------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 3,20<br>(+0,08 - 0,15) | 6,50  | 1,30     | 5,80 - 6,70  | 2,00      | 3,40 - 3,50             | 0,50 - 2,00                 | 2.000                              | 2.200                                |
|                        | 8,00  | 1,30     | 5,80 - 6,70  | 2,00      | 3,40 - 3,50             | 2,00 - 3,50                 | 2.000                              | 2.200                                |
|                        | 9,50  | 1,30     | 5,80 - 6,70  | 2,00      | 3,40 - 3,50             | 3,50 - 5,00                 | 2.000                              | 2.200                                |
|                        | 11,00 | 1,30     | 5,80 - 6,70  | 2,00      | 3,40 - 3,50             | 5,00 - 6,50                 | 2.000                              | 2.200                                |
|                        | 12,50 | 1,30     | 5,80 - 6,70  | 2,00      | 3,40 - 3,50             | 6,50 - 8,00                 | 2.000                              | 2.200                                |
| 4,00<br>(+0,08 - 0,15) | 8,00  | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 0,50 - 3,50                 | 3.000                              | 3.500                                |
|                        | 9,50  | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 3,50 - 5,00                 | 3.000                              | 3.500                                |
|                        | 11,00 | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 5,00 - 6,50                 | 3.000                              | 3.500                                |
|                        | 12,50 | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 6,50 - 8,00                 | 3.000                              | 3.500                                |
|                        | 15,00 | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 8,00 - 12,50                | 3.000                              | 3.500                                |
| 4,80<br>(+0,08 - 0,15) | 8,00  | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 1,00 - 3,00                 | 4.000                              | 4.400                                |
|                        | 9,50  | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 3,00 - 5,00                 | 4.000                              | 4.400                                |
|                        | 11,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 5,00 - 6,50                 | 4.000                              | 4.400                                |
|                        | 13,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 6,50 - 8,00                 | 4.000                              | 4.400                                |
|                        | 14,50 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 8,00 - 9,50                 | 4.000                              | 4.400                                |
|                        | 16,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 9,50 - 11,00                | 4.000                              | 4.400                                |
|                        | 18,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 11,00 - 13,00               | 4.000                              | 4.400                                |
|                        | 21,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 13,00 - 16,00               | 4.000                              | 4.400                                |
|                        | 25,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 16,00 - 20,00               | 4.000                              | 4.400                                |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |

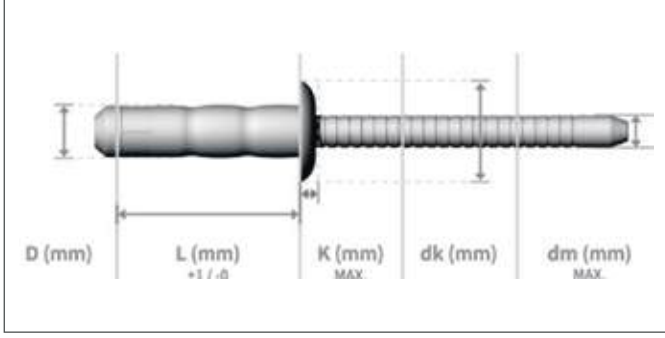
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK MULTİGRİP PERÇİN

ALUMINUM / STEEL MULTIGRIP RIVET A- TYPE



|  | HAMMADDE<br>MATERIAL  | YÜZEY<br>FINISH                |
|--|-----------------------|--------------------------------|
|  | Alüminyum<br>Aluminum | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel        | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk            | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|---------------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 3,20<br>(+0,08 - 0,15) | 6,00  | 1,30     | 5,80 - 6,70   | 2,00      | 3,30 - 3,40             | 1,00 - 3,50                 | 650                                | 850                                  |
|                        | 8,00  | 1,30     | 5,80 - 6,70   | 2,00      | 3,30 - 3,40             | 1,50 - 5,00                 | 650                                | 850                                  |
|                        | 10,00 | 1,30     | 5,80 - 6,70   | 2,00      | 3,30 - 3,40             | 2,50 - 7,00                 | 650                                | 850                                  |
|                        | 12,00 | 1,30     | 5,80 - 6,70   | 2,00      | 3,30 - 3,40             | 4,50 - 9,00                 | 650                                | 850                                  |
|                        | 14,00 | 1,30     | 5,80 - 6,70   | 2,00      | 3,30 - 3,40             | 6,50 - 10,50                | 650                                | 850                                  |
|                        | 16,00 | 1,30     | 5,80 - 6,70   | 2,00      | 3,30 - 3,40             | 9,00 - 12,50                | 650                                | 850                                  |
| 4,00<br>(+0,08 - 0,15) | 8,00  | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 1,50 - 5,00                 | 950                                | 1.500                                |
|                        | 10,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 2,00 - 6,50                 | 950                                | 1.500                                |
|                        | 12,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 3,50 - 8,50                 | 950                                | 1.500                                |
|                        | 14,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 5,50 - 10,50                | 950                                | 1.500                                |
|                        | 16,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 6,00 - 12,50                | 950                                | 1.500                                |
|                        | 18,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 9,50 - 14,50                | 950                                | 1.500                                |
| 4,80<br>(+0,08 - 0,15) | 20,00 | 1,70     | 6,90 - 8,40   | 2,50      | 4,10 - 4,20             | 11,50 - 16,50               | 950                                | 1.500                                |
|                        | 10,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 1,50 - 6,00                 | 1.320                              | 2.000                                |
|                        | 12,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 2,00 - 8,00                 | 1.320                              | 2.000                                |
|                        | 14,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 3,50 - 9,50                 | 1.320                              | 2.000                                |
|                        | 16,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 6,00 - 11,50                | 1.320                              | 2.000                                |
|                        | 18,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 8,00 - 13,50                | 1.320                              | 2.000                                |
|                        | 20,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 10,00 - 15,50               | 1.320                              | 2.000                                |
|                        | 22,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 12,00 - 17,50               | 1.320                              | 2.000                                |
|                        | 25,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 12,00 - 19,00               | 1.320                              | 2.000                                |
|                        | 27,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 17,00 - 22,00               | 1.320                              | 2.000                                |
| 6,40<br>(+0,08 - 0,15) | 30,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 20,00 - 25,00               | 1.320                              | 2.000                                |
|                        | 35,00 | 2,00     | 8,30 - 10,10  | 3,00      | 4,90 - 4,50             | 25,00 - 30,00               | 1.320                              | 2.000                                |
|                        | 12,50 | 2,70     | 11,60 - 13,40 | 4,20      | 6,50 - 6,60             | 1,50 - 6,00                 | 3.800                              | 4.000                                |
|                        | 14,50 | 2,70     | 11,60 - 13,40 | 4,20      | 6,50 - 6,60             | 1,50 - 7,50                 | 3.800                              | 4.000                                |
|                        | 16,50 | 2,70     | 11,60 - 13,40 | 4,20      | 6,50 - 6,60             | 2,00 - 9,00                 | 3.800                              | 4.000                                |
|                        | 18,50 | 2,70     | 11,60 - 13,40 | 4,20      | 6,50 - 6,60             | 4,00 - 11,00                | 3.800                              | 4.000                                |
|                        | 20,50 | 2,70     | 11,60 - 13,40 | 4,20      | 6,50 - 6,60             | 5,50 - 12,50                | 3.800                              | 4.000                                |
|                        | 25,50 | 2,70     | 11,60 - 13,40 | 4,20      | 6,50 - 6,60             | 10,50 - 17,50               | 3.800                              | 4.000                                |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |
|                        |       |          |               |           |                         |                             |                                    |                                      |

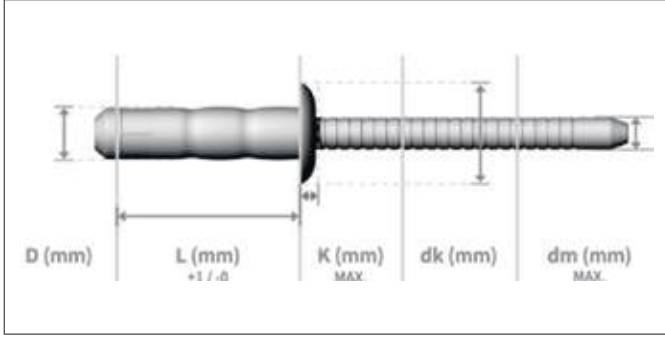
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ÇELİK / ÇELİK MULTIGRIP PERÇİN

STEEL / STEEL MULTIGRIP RIVET A- TYPE



|                                                                                   | HAMMADDE<br>MATERIAL | YÜZEY<br>FINISH                |
|-----------------------------------------------------------------------------------|----------------------|--------------------------------|
|  | Çelik<br>Steel       | Çinko Kaplamalı<br>Zinc Plated |
|  | Çelik<br>Steel       | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk    | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|-------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 3,20<br>(+0,08 - 0,15) | 8,00  | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 1,00 - 4,00                 | 1.000                              | 1.200                                |
|                        | 10,00 | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 2,50 - 6,00                 | 1.000                              | 1.200                                |
|                        | 12,00 | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 3,00 - 8,00                 | 1.000                              | 1.200                                |
|                        | 14,00 | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 3,50 - 9,50                 | 1.000                              | 1.200                                |
|                        | 16,00 | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 5,50 - 11,50                | 1.000                              | 1.200                                |
| 4,00<br>(+0,08 - 0,15) | 8,00  | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 1,00 - 3,50                 | 1.500                              | 2.000                                |
|                        | 10,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 1,50 - 5,00                 | 1.500                              | 2.000                                |
|                        | 12,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 3,50 - 7,00                 | 1.500                              | 2.000                                |
|                        | 14,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 1,50 - 9,00                 | 1.500                              | 2.000                                |
|                        | 16,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 3,50 - 11,00                | 1.500                              | 2.000                                |
|                        | 18,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 5,5 - 12,50                 | 1.500                              | 2.000                                |
|                        | 20,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 7,50 - 14,50                | 1.500                              | 2.000                                |
| 4,80<br>(+0,08 - 0,15) | 10,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 1,50 - 4,50                 | 2.400                              | 2.900                                |
|                        | 12,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 2,00 - 6,50                 | 2.400                              | 2.900                                |
|                        | 14,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 3,00 - 8,50                 | 2.400                              | 2.900                                |
|                        | 16,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 3,00 - 10,5                 | 2.400                              | 2.900                                |
|                        | 18,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 5,00 - 12,5                 | 2.400                              | 2.900                                |
|                        | 20,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 7,00 - 14,5                 | 2.400                              | 2.900                                |
|                        | 22,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 9,00 - 16,50                | 2.400                              | 2.900                                |
|                        | 25,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 11,00 - 19,00               | 2.400                              | 2.900                                |
|                        | 27,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 13,00 - 21,00               | 2.400                              | 2.900                                |
|                        | 30,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 15,00 - 24,00               | 2.400                              | 2.900                                |
| 6,40<br>(+0,08 - 0,15) | 12,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 1,00 - 6,00                 | 3.800                              | 4.000                                |
|                        | 14,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 1,50 - 7,50                 | 3.800                              | 4.000                                |
|                        | 16,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 2,00 - 9,00                 | 3.800                              | 4.000                                |
|                        | 18,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 4,00 - 11,00                | 3.800                              | 4.000                                |
|                        | 20,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 5,50 - 12,50                | 3.800                              | 4.000                                |
|                        | 25,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 10,50 - 17,50               | 3.800                              | 4.000                                |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |

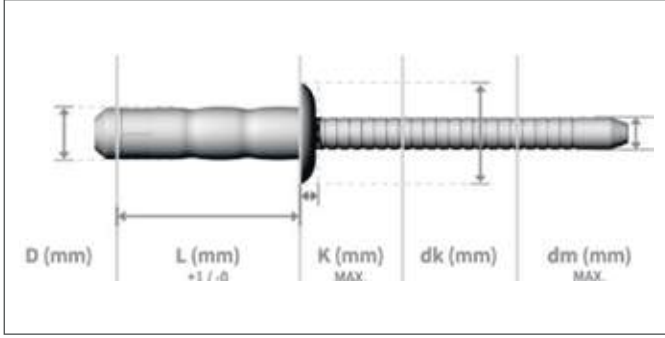
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / INOX AÇIK TİP MULTİGRİP PERÇİN

ALUMINUM / STAINLESS STEEL MULTIGRIP RIVET



|  | HAMMADDE<br>MATERIAL    | YÜZEY<br>FINISH         |
|--|-------------------------|-------------------------|
|  | Alüminyum<br>Aluminum   | Parlatılmış<br>Polished |
|  | Inox<br>Stainless Steel | Parlatılmış<br>Polished |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk           | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|--------------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 3,20<br>(+0,08 - 0,15) | 6,00  | 1,30     | 5,80 - 6,70  | 2,00      | 3,30 - 3,40             | 1,00 - 3,50                 | 650                                | 850                                  |
|                        | 8,00  | 1,30     | 5,80 - 6,70  | 2,00      | 3,30 - 3,40             | 1,50 - 5,00                 | 650                                | 850                                  |
|                        | 10,00 | 1,30     | 5,80 - 6,70  | 2,00      | 3,30 - 3,40             | 2,50 - 7,00                 | 650                                | 850                                  |
|                        | 12,00 | 1,30     | 5,80 - 6,70  | 2,00      | 3,30 - 3,40             | 4,50 - 9,00                 | 650                                | 850                                  |
|                        | 14,00 | 1,30     | 5,80 - 6,70  | 2,00      | 3,30 - 3,40             | 6,50 - 10,50                | 650                                | 850                                  |
|                        | 16,00 | 1,30     | 5,80 - 6,70  | 2,00      | 3,30 - 3,40             | 9,00 - 12,50                | 650                                | 850                                  |
| 4,00<br>(+0,08 - 0,15) | 8,00  | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 1,50 - 5,00                 | 950                                | 1.500                                |
|                        | 10,00 | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 2,00 - 6,50                 | 950                                | 1.500                                |
|                        | 12,00 | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 3,50 - 8,50                 | 950                                | 1.500                                |
|                        | 14,00 | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 5,50 - 10,50                | 950                                | 1.500                                |
|                        | 16,00 | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 6,00 - 12,50                | 950                                | 1.500                                |
|                        | 18,00 | 1,70     | 6,90 - 8,40  | 2,50      | 4,10 - 4,20             | 9,50 - 14,50                | 950                                | 1.500                                |
| 4,80<br>(+0,08 - 0,15) | 10,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 1,50 - 6,00                 | 1.320                              | 2.000                                |
|                        | 12,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 2,00 - 8,00                 | 1.320                              | 2.000                                |
|                        | 14,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 3,50 - 9,50                 | 1.320                              | 2.000                                |
|                        | 16,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 6,00 - 11,50                | 1.320                              | 2.000                                |
|                        | 18,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 8,00 - 13,50                | 1.320                              | 2.000                                |
|                        | 20,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 10,00 - 15,50               | 1.320                              | 2.000                                |
|                        | 22,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 12,00 - 17,50               | 1.320                              | 2.000                                |
|                        | 24,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 12,00 - 19,00               | 1.320                              | 2.000                                |
|                        | 27,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 17,00 - 22,00               | 1.320                              | 2.000                                |
|                        | 30,00 | 2,00     | 8,30 - 10,10 | 3,00      | 4,90 - 5,00             | 20,00 - 25,00               | 1.320                              | 2.000                                |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |

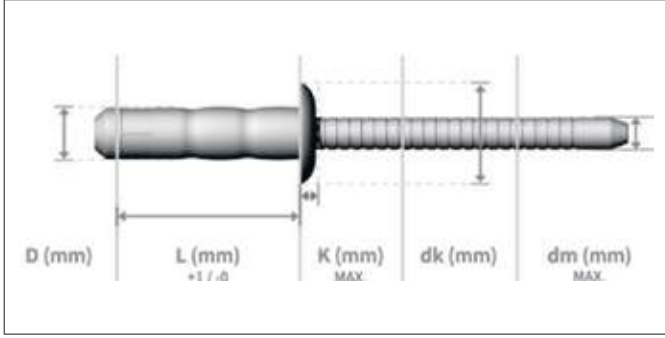
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX / INOX AÇIK TİP MULTİGRİP PERÇİN

STAINLESS STEEL / STAINLESS STEEL MULTIGRIP RIVET



|  | HAMMADDE<br>MATERIAL    | YÜZEY<br>FINISH    |
|--|-------------------------|--------------------|
|  | Inox<br>Stainless Steel | Naturel<br>Natural |
|  | Inox<br>Stainless Steel | Naturel<br>Natural |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk    | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|-------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 3,20<br>(+0,08 - 0,15) | 8,00  | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 1,00 - 4,0                  | 1.700                              | 2.000                                |
|                        | 10,00 | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 2,50 - 6,00                 | 1.700                              | 2.000                                |
|                        | 12,00 | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 1,50 - 8,00                 | 1.700                              | 2.000                                |
|                        | 14,00 | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 3,50 - 9,50                 | 1.700                              | 2.000                                |
|                        | 16,00 | 1,30     | 6,70  | 2,25      | 3,30 - 3,40             | 5,50 - 11,50                | 1.700                              | 2.000                                |
| 4,00<br>(+0,08 - 0,15) | 8,00  | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 1,00 - 3,50                 | 2.700                              | 3.400                                |
|                        | 10,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 1,50 - 5,00                 | 2.700                              | 3.400                                |
|                        | 12,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 3,50 - 7,00                 | 2.700                              | 3.400                                |
|                        | 14,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 1,50 - 9,00                 | 2.700                              | 3.400                                |
|                        | 16,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 3,50 - 11,00                | 2.700                              | 3.400                                |
|                        | 18,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 5,50 - 12,50                | 2.700                              | 3.400                                |
|                        | 20,00 | 1,70     | 8,40  | 2,85      | 4,10 - 4,20             | 7,50 - 14,50                | 2.700                              | 3.400                                |
| 4,80<br>(+0,08 - 0,15) | 10,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 1,50 - 4,50                 | 4.000                              | 4.500                                |
|                        | 12,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 2,00 - 6,50                 | 4.000                              | 4.500                                |
|                        | 14,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 3,00 - 8,50                 | 4.000                              | 4.500                                |
|                        | 15,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 3,00 - 9,00                 | 4.000                              | 4.500                                |
|                        | 16,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 3,00 - 10,50                | 4.000                              | 4.500                                |
|                        | 18,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 5,00 - 12,50                | 4.000                              | 4.500                                |
|                        | 20,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 7,00 - 14,50                | 4.000                              | 4.500                                |
|                        | 22,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 9,00 - 16,50                | 4.000                              | 4.500                                |
|                        | 25,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 11,00 - 19,00               | 4.000                              | 4.500                                |
|                        | 27,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 13,00 - 21,00               | 4.000                              | 4.500                                |
|                        | 30,00 | 2,00     | 10,10 | 3,35      | 4,90 - 5,00             | 16,00 - 24,00               | 4.000                              | 4.500                                |
| 6,40<br>(+0,08 - 0,15) | 12,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 1,00 - 6,00                 | 6.000                              | 7.500                                |
|                        | 14,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 1,50 - 7,50                 | 6.000                              | 7.500                                |
|                        | 16,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 2,00 - 9,00                 | 6.000                              | 7.500                                |
|                        | 18,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 4,00 - 11,00                | 6.000                              | 7.500                                |
|                        | 20,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 5,00 - 12,50                | 6.000                              | 7.500                                |
|                        | 25,50 | 2,70     | 13,40 | 4,15      | 6,50 - 6,60             | 10,50 - 17,50               | 6.000                              | 7.500                                |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |
|                        |       |          |       |           |                         |                             |                                    |                                      |

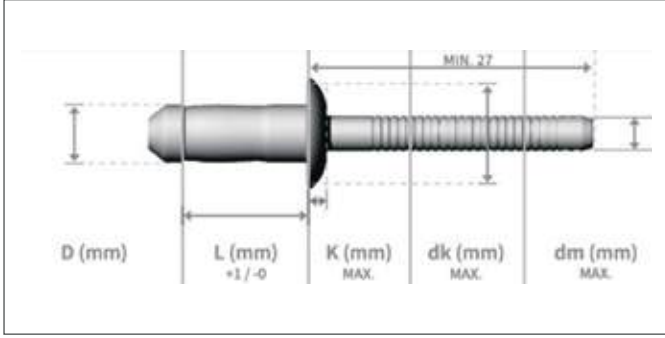
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ÇELİK / ÇELİK HEMLOCK PERÇİN

STEEL / STEEL HEMLOCK RIVET



|  | HAMMADDE<br>MATERIAL | YÜZEY<br>FINISH                |
|--|----------------------|--------------------------------|
|  | Çelik<br>Steel       | Çinko Kaplamalı<br>Zinc Plated |
|  | Çelik<br>Steel       | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

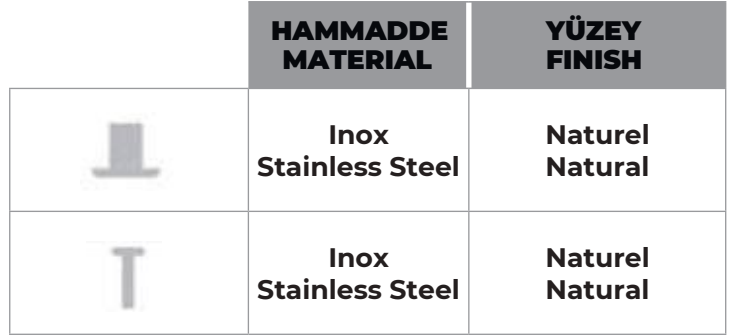
| d    | l     | k<br>max | dk    | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------|-------|----------|-------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 4,80 | 9,00  | 2,50     | 10,20 | 3,40      | 4,90 - 5,10             | 1,50 - 3,50                 | 6.000                              | 4.900                                |
|      | 11,50 | 2,50     | 10,20 | 3,40      | 4,90 - 5,10             | 3,50 - 6,00                 | 6.800                              | 4.900                                |
|      | 14,00 | 2,50     | 10,20 | 3,40      | 4,90 - 5,10             | 6,00 - 8,50                 | 6.800                              | 4.900                                |
|      | 16,50 | 2,50     | 10,20 | 3,40      | 4,90 - 5,10             | 8,50 - 11,00                | 6.800                              | 4.900                                |
|      | 19,00 | 2,50     | 10,20 | 3,40      | 4,90 - 5,10             | 11,00 - 13,00               | 6.800                              | 4.900                                |
| 6,40 | 10,50 | 3,50     | 13,40 | 4,20      | 6,60 - 6,80             | 2,00 - 4,50                 | 14.000                             | 8.300                                |
|      | 12,50 | 3,50     | 13,40 | 4,20      | 6,60 - 6,80             | 3,50 - 6,00                 | 14.500                             | 8.300                                |
|      | 14,50 | 3,50     | 13,40 | 4,20      | 6,60 - 6,80             | 5,50 - 8,50                 | 14.500                             | 8.300                                |
|      | 16,50 | 3,50     | 13,40 | 4,20      | 6,60 - 6,80             | 7,50 - 10,50                | 14.500                             | 8.300                                |
|      | 18,50 | 3,50     | 13,40 | 4,20      | 6,60 - 6,80             | 9,50 - 12,50                | 14.500                             | 8.300                                |
|      | 20,50 | 3,50     | 13,40 | 4,20      | 6,60 - 6,80             | 11,00 - 14,50               | 14.500                             | 8.300                                |
|      | 22,50 | 3,50     | 13,40 | 4,20      | 6,60 - 6,80             | 13,00 - 16,00               | 14.500                             | 8.300                                |
|      | 24,50 | 3,50     | 13,40 | 4,20      | 6,60 - 6,80             | 14,50 - 18,00               | 14.500                             | 8.300                                |
|      | 26,50 | 3,50     | 13,40 | 4,20      | 6,60 - 6,80             | 16,50 - 20,00               | 14.500                             | 8.300                                |
| 7,80 | 13,50 | 4,20     | 18,00 | 5,20      | 8,10 - 8,30             | 4,00 - 7,00                 | 20.500                             | 12.500                               |
|      | 16,50 | 4,20     | 18,00 | 5,20      | 8,10 - 8,30             | 7,00 - 10,00                | 21.500                             | 12.500                               |
|      | 19,50 | 4,20     | 18,00 | 5,20      | 8,10 - 8,30             | 9,00 - 12,00                | 21.500                             | 12.500                               |
|      | 22,50 | 4,20     | 18,00 | 5,20      | 8,10 - 8,30             | 12,00 - 15,00               | 21.500                             | 12.500                               |
|      |       |          |       |           |                         |                             |                                    |                                      |
|      |       |          |       |           |                         |                             |                                    |                                      |
|      |       |          |       |           |                         |                             |                                    |                                      |
|      |       |          |       |           |                         |                             |                                    |                                      |
|      |       |          |       |           |                         |                             |                                    |                                      |
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|      |       |          |       |           |                         |                             |                                    |                                      |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

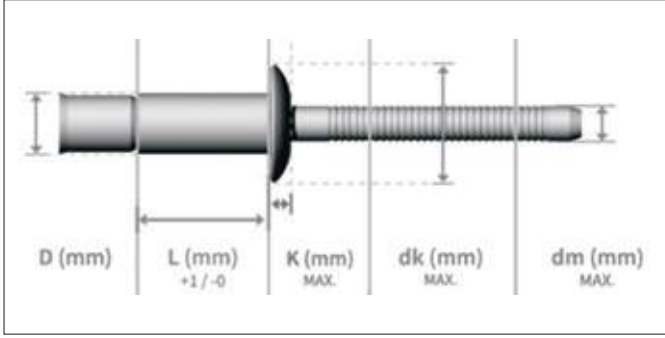
## STAINLESS STEEL / STAINLESS STEEL HEMLOCK RIVET



Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

# ÇELİK / ÇELİK MONO-LUK PERÇİN

STEEL / STEEL MONOLOCK RIVET



|  | HAMMADDE<br>MATERIAL | YÜZEY<br>FINISH                |
|--|----------------------|--------------------------------|
|  | Çelik<br>Steel       | Çinko Kaplamalı<br>Zinc Plated |
|  | Çelik<br>Steel       | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d               | l     | k<br>max | dk    | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|-----------------|-------|----------|-------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 4,80<br>(3/16") | 10,00 | 2,10     | 10,10 | 3,10      | 4,90 - 5,10             | 1,60 - 6,90                 | 5.800                              | 4.100                                |
|                 | 14,00 | 2,10     | 10,10 | 3,10      | 4,90 - 5,10             | 1,60 - 11,00                | 5.800                              | 4.100                                |
| 6,40<br>(1/4")  | 14,00 | 2,90     | 13,40 | 4,10      | 6,70 - 7,00             | 2,10 - 9,50                 | 10.500                             | 8.200                                |
|                 | 19,00 | 2,90     | 13,40 | 4,10      | 6,70 - 7,00             | 2,10 - 15,80                | 10.500                             | 8.200                                |
|                 |       |          |       |           |                         |                             |                                    |                                      |
|                 |       |          |       |           |                         |                             |                                    |                                      |
|                 |       |          |       |           |                         |                             |                                    |                                      |
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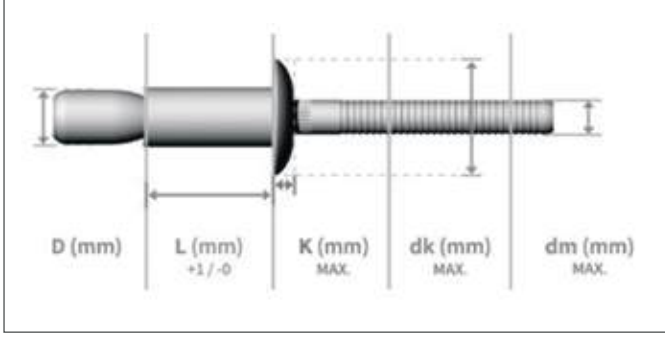
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ALÜMİNYUM INTERLOCK PERÇİN

ALUMINUM / ALUMINUM INTERLOCK RIVET



|  | HAMMADDE<br>MATERIAL  | YÜZEY<br>FINISH         |
|--|-----------------------|-------------------------|
|  | Alüminyum<br>Aluminum | Parlatılmış<br>Polished |
|  | Alüminyum<br>Aluminum | Parlatılmış<br>Polished |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d               | l     | k<br>max | dk    | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|-----------------|-------|----------|-------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 4,80<br>(3/16") | 10,00 | 2,50     | 10,20 | 3,10      | 4,90 - 5,10             | 1,60 - 6,90                 | 2.300                              | 1.900                                |
|                 | 14,00 | 2,50     | 10,20 | 3,10      | 4,90 - 5,10             | 5,40 - 11,0                 | 2.300                              | 1.900                                |
| 6,40<br>(1/4")  | 14,00 | 3,10     | 13,50 | 4,10      | 6,70 - 6,90             | 2,10 - 9,50                 | 5.300                              | 3.400                                |
|                 | 20,00 | 3,10     | 13,50 | 4,10      | 6,70 - 6,90             | 2,10 - 15,80                | 5.300                              | 3.400                                |
|                 |       |          |       |           |                         |                             |                                    |                                      |
|                 |       |          |       |           |                         |                             |                                    |                                      |
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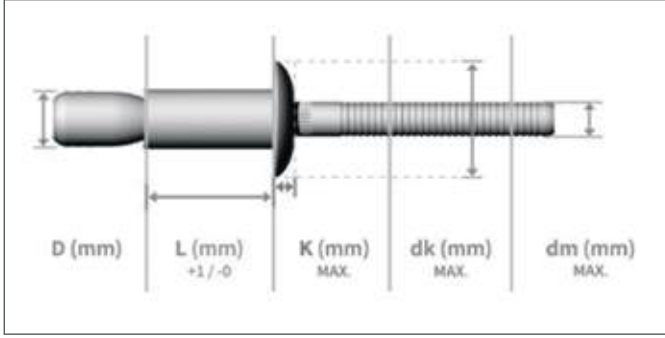
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK INTERLOCK PERÇİN

ALUMINUM / STEEL INTERLOCK RIVET



|  | HAMMADDE<br>MATERIAL  | YÜZEY<br>FINISH                |
|--|-----------------------|--------------------------------|
|  | Alüminyum<br>Aluminum | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel        | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d               | l     | k<br>max | dk    | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|-----------------|-------|----------|-------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 4,80<br>(3/16") | 10,00 | 2,50     | 10,20 | 3,10      | 4,90 - 5,10             | 1,60 - 6,90                 | 5.600                              | 4.400                                |
|                 | 14,00 | 2,50     | 10,20 | 3,10      | 4,90 - 5,10             | 5,40 - 11,00                | 5.600                              | 4.400                                |
| 6,40<br>(1/4")  | 14,00 | 3,10     | 13,50 | 4,10      | 6,70 - 6,90             | 2,10 - 9,50                 | 10.500                             | 8.200                                |
|                 | 20,00 | 3,10     | 13,50 | 4,10      | 6,7 0- 6,90             | 2,10 - 15,80                | 10.500                             | 8.200                                |
| 9,80<br>(3/8")  | 21,00 | 4,50     | 20,50 | 6,20      | 10,00 - 10,40           | 3,10 - 15,50                | 26.600                             | 17.700                               |
|                 |       |          |       |           |                         |                             |                                    |                                      |
|                 |       |          |       |           |                         |                             |                                    |                                      |
|                 |       |          |       |           |                         |                             |                                    |                                      |
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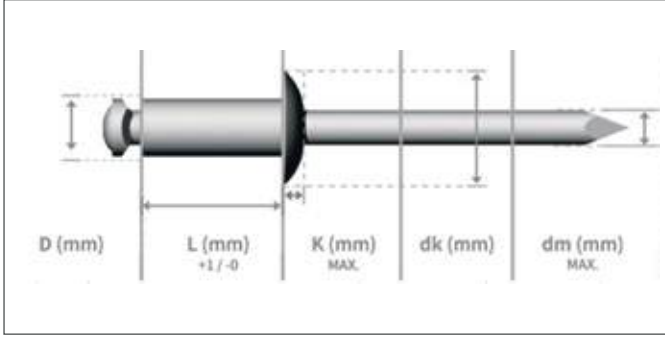
Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ALÜMİNYUM / ÇELİK ÖRÜMCEK PERÇİN

ALUMINUM / STEEL PEEL RIVET



|  | HAMMADDE<br>MATERIAL  | YÜZEY<br>FINISH                |
|--|-----------------------|--------------------------------|
|  | Alüminyum<br>Aluminum | Parlatılmış<br>Polished        |
|  | Çelik<br>Steel        | Çinko Kaplamalı<br>Zinc Plated |

## TEKNİK BİLGİLER

## TECHNICAL INFORMATION

## TECHNISCHE INFORMATION

| d                      | l     | k<br>max | dk           | dm<br>max | Delik Çapı<br>Hole Size | Sıkma Aralığı<br>Grip Range | Kesme Dayanımı<br>Shear (N)<br>min | Çekme Dayanımı<br>Tensile (N)<br>min |
|------------------------|-------|----------|--------------|-----------|-------------------------|-----------------------------|------------------------------------|--------------------------------------|
| 3,20<br>(+0,08 - 0,15) | 10,00 | 1,30     | 5,80 - 6,70  | 2,20      | 3,40 - 3,50             | 0,50 - 1,00                 | 500                                | 700                                  |
|                        | 12,00 | 1,30     | 5,80 - 6,70  | 2,20      | 3,40 - 3,50             | 3,00 - 7,00                 | 500                                | 700                                  |
|                        | 14,00 | 1,30     | 5,80 - 6,70  | 2,20      | 3,40 - 3,50             | 5,00 - 9,00                 | 500                                | 700                                  |
|                        | 16,00 | 1,30     | 5,80 - 6,70  | 2,20      | 3,40 - 3,50             | 7,00 - 11,00                | 500                                | 700                                  |
|                        | 18,00 | 1,30     | 5,80 - 6,70  | 2,20      | 3,40 - 3,50             | 9,00 - 13,00                | 500                                | 700                                  |
| 4,00<br>(+0,08 - 0,15) | 10,00 | 1,70     | 6,90 - 8,40  | 2,40      | 4,20 - 4,40             | 2,00 - 6,50                 | 850                                | 1.000                                |
|                        | 12,00 | 1,70     | 6,90 - 8,40  | 2,40      | 4,20 - 4,40             | 3,50 - 8,50                 | 850                                | 1.000                                |
|                        | 14,00 | 1,70     | 6,90 - 8,40  | 2,40      | 4,20 - 4,40             | 5,50 - 10,50                | 850                                | 1.000                                |
|                        | 16,00 | 1,70     | 6,90 - 8,40  | 2,40      | 4,20 - 4,40             | 6,00 - 12,50                | 850                                | 1.000                                |
|                        | 18,00 | 1,70     | 6,90 - 8,40  | 2,40      | 4,20 - 4,40             | 9,50 - 14,50                | 850                                | 1.000                                |
|                        | 20,00 | 1,70     | 6,90 - 8,40  | 2,40      | 4,20 - 4,40             | 11,50 - 16,50               | 850                                | 1.000                                |
| 4,80<br>(+0,08 - 0,15) | 10,00 | 2,00     | 8,30 - 10,10 | 2,90      | 5,25 - 5,45             | 1,50 - 4,00                 | 1.700                              | 1.700                                |
|                        | 12,00 | 2,00     | 8,30 - 10,10 | 2,90      | 5,25 - 5,45             | 2,00 - 6,00                 | 1.700                              | 1.700                                |
|                        | 15,00 | 2,00     | 8,30 - 10,10 | 2,90      | 5,25 - 5,45             | 3,00 - 9,00                 | 1.700                              | 1.700                                |
|                        | 18,00 | 2,00     | 8,30 - 10,10 | 2,90      | 5,25 - 5,45             | 5,00 - 11,00                | 1.700                              | 1.700                                |
|                        | 21,00 | 2,00     | 8,30 - 10,10 | 2,90      | 5,25 - 5,45             | 8,00 - 15,00                | 1.700                              | 1.700                                |
|                        | 25,00 | 2,00     | 8,30 - 10,10 | 2,90      | 5,25 - 5,45             | 12,00 - 19,00               | 1.700                              | 1.700                                |
|                        | 27,00 | 2,00     | 8,30 - 10,10 | 2,90      | 5,25 - 5,45             | 14,00 - 21,00               | 1.700                              | 1.700                                |
|                        | 30,00 | 2,00     | 8,30 - 10,10 | 2,90      | 5,25 - 5,45             | 16,00 - 24,00               | 1.700                              | 1.700                                |
|                        | 35,00 | 2,00     | 8,30 - 10,10 | 2,90      | 5,25 - 5,45             | 20,00 - 28,00               | 1.700                              | 1.700                                |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |
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|                        |       |          |              |           |                         |                             |                                    |                                      |
|                        |       |          |              |           |                         |                             |                                    |                                      |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

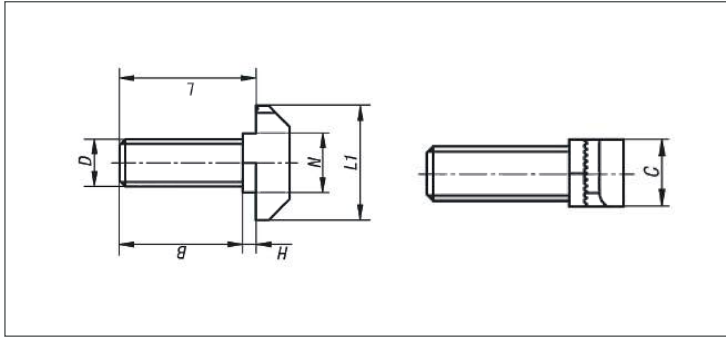
**SOLAR GRUBU**

SOLAR

## INOX ÇEKİÇ BAŞLI CIVATA (TİP 28/15)

## HAMMER HEAD BOLT TYPE 28/15

HAMMERKOPFSCHRAUBEN TYP 28/15



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNİK BİLGİLER | TECHNICAL INFORMATION | TECHNISCHE INFORMATION |
|-----------------|-----------------------|------------------------|
| d               | M8                    | M10                    |
| k               | 4,00                  | 4,50                   |
| b1              | 10,00                 | 10,00                  |
| b2              | 22,73                 | 22,73                  |

[illegible]

Değerler milimetre olarak verilmiştir.

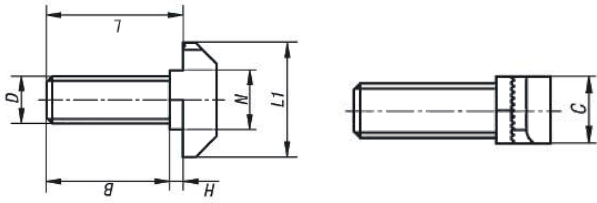
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX ÇEKİÇ BAŞLI CIVATA (TİP 20/12)

## HAMMER HEAD BOLT TYPE 20/12

## HAMMERKOPFSCHRAUBEN TYP 20/12



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

| TEKNIK BİLGİLER | TECHNICAL INFORMATION | TECHNISCHE INFORMATION |
|-----------------|-----------------------|------------------------|
| d               | M8                    |                        |
| k               | 4,00                  |                        |
| b1              | 8,70                  |                        |
| b2              | 15,50                 |                        |

[illegible]

Değerler milimetre olarak verilmiştir.

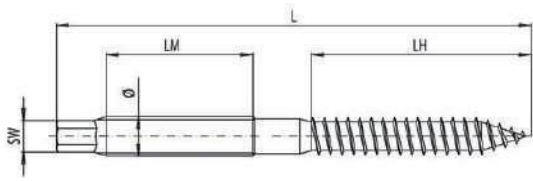
Values are given in millimeters.

Werte sind in millimetern angegeben.

# INOX TRIFON SAPLAMA

## HANGER BOLT

## STOCKSCHRAUBEN



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

Değerler milimetre olarak verilmiştir.

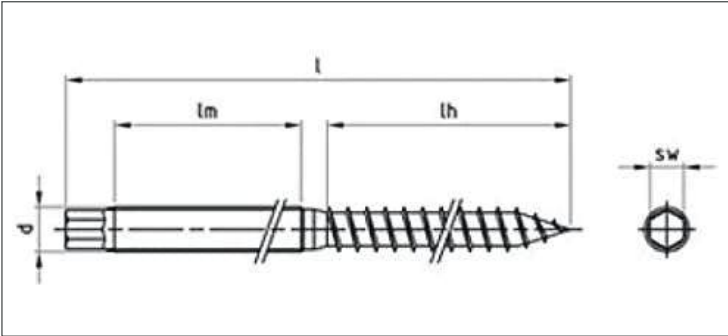
Values are given in millimeters.

Werte sind in millimetern angegeben.

## INOX ALTİGEN TRİFON SAPLAMA

HANGER BOLT WITH HEXAGON STOCKSCHRAUBEN MIT AUSSENSECHSKANT

HANGER BOLT WITH HEXAGON STOCKSCHRAUBEN MIT AUSSENSECHSKANT



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

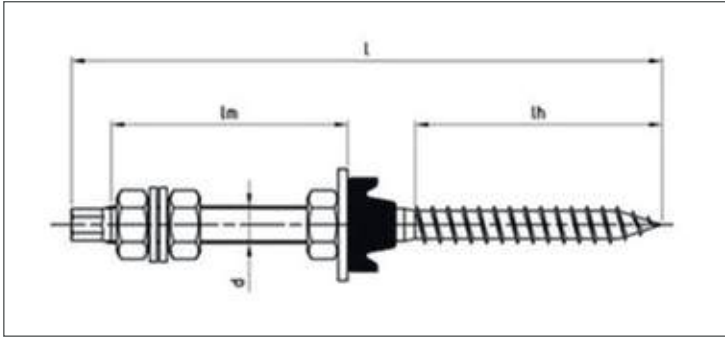
Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

Değerler milimetre olarak verilmiştir.      Values are given in millimeters.      Werte sind in millimetern angegeben.

( DIN 125 + DIN 9021 + DIN 934 + EPDM PUL)

## HANGER BOLT WITH NUTS AND EPDM-SEALING WASHERS

## STOCKSCHRAUBEN MIT MUTTERN & EPDM-DICHTUNG



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

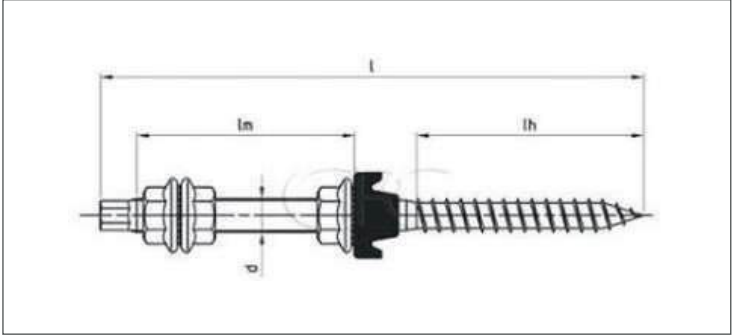
[illegible]

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

( DIN 6923 + EPDM PUL)



| ISO                                                                                                              | UNI | DIN |
|------------------------------------------------------------------------------------------------------------------|-----|-----|
| -                                                                                                                | -   | -   |
| Mekanik Özellikler - Toleranslar<br>Mechanical Properties - Tolerances<br>Mechanische Eigenschaften - Toleranzen |     | -   |

[illegible]

**HIRDAVAT GRUBU**

HARDWARES



**AŞINDIRICILAR**  
ABRASIVES

# KESME ve TAŞLAMA TAŞLARI

- 1 Premium Qualitätsstufe
- 2 Material
- 3 Durchmesser x Stärke x Bohrung
- 4 Produktspezifikation
- 5 Maximale Umfangsgeschwindigkeit
- 6 Trennen oder Schruppen
- 7 Artikelnummer
- 8 OSA Zertifikat
- 9 Europäischer Standard



## KESME TAŞLARI METAL / İNOX

CUTTING WHEELS

SCHNEIDERÄDER

|                            |                                                                                                                                                                                                                                       |           |           |           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|
| ÜRÜN GÖRSELİ               |                                                                                                                                                                                                                                       |           |           |           |
| ÇAP (mm)                   | 115                                                                                                                                                                                                                                   | 125       | 180       | 230       |
| KALINLIK x DELİK ÇAPI (mm) | 1,0x22,23                                                                                                                                                                                                                             | 1,0x22,23 | 1,6x22,23 | 2,0x22,23 |
| SPESİFİKASYON              | A 60 R                                                                                                                                                                                                                                | A 60 R    | A 46 R    | A 36 R    |
| KULLANIM ALANI             | Aşındırıcıların çelik endüstrisinde oldukça geniş bir kullanım alanı bulunuyor; gemi yapımı, parça üretimi, otomotiv ve inşaat bileşenleri, özel profiller, borular, elektrikli ürünler, araç - gereç ve makinaların bakım ve tamiri. |           |           |           |

## KESME TAŞLARI METAL / İNOX

CUTTING WHEELS

SCHNEIDERÄDER

|                            |                                                                                                                                                                                                                                       |           |                        |                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|-------------------------------------|
| ÜRÜN GÖRSELİ               |                                                                                                                                                                                                                                       |           |                        |                                     |
| ÇAP (mm)                   | 115                                                                                                                                                                                                                                   | 125       | 180                    | 230                                 |
| KALINLIK x DELİK ÇAPI (mm) | 3,0x22,23                                                                                                                                                                                                                             | 3,0x22,23 | 3,0x22,23<br>3,2x22,23 | 3,0x22,23<br>3,8x22,23<br>3,2x22,23 |
| SPESİFİKASYON              | A30 S                                                                                                                                                                                                                                 | A30 S     | A30 S                  | A30 S                               |
| KULLANIM ALANI             | Aşındırıcıların çelik endüstrisinde oldukça geniş bir kullanım alanı bulunuyor; gemi yapımı, parça üretimi, otomotiv ve inşaat bileşenleri, özel profiller, borular, elektrikli ürünler, araç - gereç ve makinaların bakım ve tamiri. |           |                        |                                     |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# KESME TAŞLARI METAL / İNOX

CUTTING WHEELS

SCHNEIDERÄDER

|                            |                                                                                                                                                                                                                                       |           |                        |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|
| ÜRÜN GÖRSELİ               |                                                                                                                                                     |           |                        |
| ÇAP (mm)                   | 115                                                                                                                                                                                                                                   | 180       | 230                    |
| KALINLIK x DELİK ÇAPI (mm) | 1,0x22,23                                                                                                                                                                                                                             | 2,0x22,23 | 1,9x22,23<br>2,0x22,23 |
| SPESİFİKASYON              | A 60 S                                                                                                                                                                                                                                | A 30 S    | A 46 S<br>A 30 S       |
| KULLANIM ALANI             | Aşındırıcıların çelik endüstrisinde oldukça geniş bir kullanım alanı bulunuyor; gemi yapımı, parça üretimi, otomotiv ve inşaat bileşenleri, özel profiller, borular, elektrikli ürünler, araç - gereç ve makinaların bakım ve tamiri. |           |                        |

# TAŞLAMA TAŞLARI METAL

CUTTING WHEELS

SCHNEIDERÄDER

|                            |                                                                                                                                                                                                                                       |           |                        |                        |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|------------------------|
| ÜRÜN GÖRSELİ               |                                                                                                                                                    |           |                        |                        |
| ÇAP (mm)                   | 115                                                                                                                                                                                                                                   | 125       | 180                    | 230                    |
| KALINLIK x DELİK ÇAPI (mm) | 6,0x22,23                                                                                                                                                                                                                             | 6,0x22,23 | 6,0x22,23<br>8,0x22,23 | 6,0x22,23<br>8,0x22,23 |
| SPESİFİKASYON              | A 24 Q                                                                                                                                                                                                                                | A 24 Q    | A 24 Q                 | A 24 Q                 |
| KULLANIM ALANI             | Aşındırıcıların çelik endüstrisinde oldukça geniş bir kullanım alanı bulunuyor; gemi yapımı, parça üretimi, otomotiv ve inşaat bileşenleri, özel profiller, borular, elektrikli ürünler, araç - gereç ve makinaların bakım ve tamiri. |           |                        |                        |

# TAŞLAMA TAŞLARI METAL / İNOX

CUTTING WHEELS

SCHNEIDERÄDER

|                            |                                                                                                                                                                                                                                       |           |                        |                        |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|------------------------|
| ÜRÜN GÖRSELİ               |                                                                                                                                                   |           |                        |                        |
| ÇAP (mm)                   | 115                                                                                                                                                                                                                                   | 125       | 180                    | 230                    |
| KALINLIK x DELİK ÇAPI (mm) | 6,4x22,23                                                                                                                                                                                                                             | 6,4x22,23 | 6,4x22,23<br>8,0x22,23 | 6,4x22,23<br>8,0x22,23 |
| SPESİFİKASYON              | A 24 P<br>A 30 P                                                                                                                                                                                                                      | A 30 P    | A 24 P<br>A 30 P       | A 30 P                 |
| KULLANIM ALANI             | Aşındırıcıların çelik endüstrisinde oldukça geniş bir kullanım alanı bulunuyor; gemi yapımı, parça üretimi, otomotiv ve inşaat bileşenleri, özel profiller, borular, elektrikli ürünler, araç - gereç ve makinaların bakım ve tamiri. |           |                        |                        |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ZIMPARALAR

Norton flap diskler; işlem süresini azaltan ve toplam ürün maliyetini düşüren, hafif talaş kaldırma, pah kırma, çapak giderme, kaynak dikişinin temizlenmesi ve finisaj işlemleri için tasarlanmıştır. Flap diskler; fiber disklerle nazaran daha hızlı bir uygulama ve daha iyi bir yüzey finisajı sunar. Bunun yanı sıra, flap yapısı sayesinde daha uzun bir kullanım ömrü sağlar.

## ZIMPARALAR

## METAL / İNOX

FLAP DISCS

FLAMMSCHEIBEN

|                  |                                                                                         |              |
|------------------|-----------------------------------------------------------------------------------------|--------------|
| ÜRÜN GÖRSELİ     |       |              |
| ÇAP x DELİK (mm) | 115 x 22                                                                                | 180 x 22     |
| KUM              | 40 - 60 - 80                                                                            | 40 - 60 - 80 |
| KULLANIM ALANI   | Alüminyum oksit aşındırıcı dayanıklı flap disk.<br>Uzun ömürlü ve düzgün finisaj sağlar |              |

## ZIMPARALAR

## METAL / İNOX

FLAP DISCS

FLAMMSCHEIBEN

|                  |                                                                                                                                                                                                                                                      |                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| ÜRÜN GÖRSELİ     |                                                                                                                                                                  |                    |
| ÇAP x DELİK (mm) | 115 x 22                                                                                                                                                                                                                                             | 180 x 22           |
| KUM              | 40 - 60 - 80 - 120                                                                                                                                                                                                                                   | 40 - 60 - 80 - 120 |
| KULLANIM ALANI   | Çelik ve paslanmaz çeliğin çapağının giderilmesi ve kaba taşlama işlemleri için çok amaçlı ürün<br>Kendiliğinden keskinleşen zirkonyum aşındırıcı mineral<br>Orta ve düşük basınçta yüksek & düzenli kesme hızı<br>Mükemmel fiyat & performans oranı |                    |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

A close-up photograph of a person's hands using a white Bantlar tape dispenser to seal a cardboard box. The dispenser is a handheld tool with a large circular wheel and a lever. The person is wearing a white tank top and a blue shirt. The background is a plain, light-colored wall. The text "BANTLAR" and "TAPES" is overlaid on the image in white, bold, sans-serif font.

# **BANTLAR**

TAPES

# DERZ BANTLAR

JOINT TAPE

FUGENBAND

| ÖLÇÜ<br>DIMENSIONS<br>MASSE                                       | 50MM*45M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50MM*90M | 100MM*90M                                                                           |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|
| AĞIRLIK<br>WEIGHT<br>GEWICHT                                      | 123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 247      | 450                                                                                 |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>NUTZUNGSZWECK               | <p>Alçı levha, duvar ve asma tavan sistemlerinin yapımında, ek yerlerinde çatlakları önlemek amacı ile kullanılan kendinden yapışkanlı cam elyaf banttır</p> <p>It is a self-adhesive glass fiber tape used in the construction of plasterboard, wall and suspended ceiling systems, to prevent cracks in the joints.</p> <p>Es ist ein selbstklebendes Glasfaserband, das beim Bau von Gipskarton-, W und abgehängten Deckensystemen verwendet wird, um Risse in den Fugen zu vermeiden.</p> |          |  |
| TEKNİK ÖZELLİKLER<br>TECHNICAL SPECIFICATIONS<br>TECHNISCHE DATEN | 1x1 ölçüsünde 8*8 kare bulunur. (1 inch 25,4 mm)<br>It has 8*8 square in 1x1 size. (1 inch 25.4 mm)<br>Es hat 8*8 quadrat in 1x1 grösse. (1 zoll 25,4 mm)                                                                                                                                                                                                                                                                                                                                     |          |                                                                                     |
|                                                                   | Metrekare ağırlığı 50 gramdır.<br>Weight of square meter is 50 grams.<br>Gewicht des quadratmeters ist 50 gramm.                                                                                                                                                                                                                                                                                                                                                                              |          |                                                                                     |

## ELEKTRİKÇİ BANTLARI

ELECTRICIAN BANDS

ELEKTRIKER-BANDS

| RENK<br>COLOUR<br>FARBE                             | SİYAH<br>BLACK<br>SCHWARZ                                                                                                                                                                                                                                                                                                                                                                               | KIRMIZI<br>RED<br>ROT | BEYAZ<br>WHITE<br>WEISS | MAVİ<br>BLUE<br>BLAU | SARI<br>YELLOW<br>GELB | GRİ<br>GREY<br>GRAU                                                                   |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|----------------------|------------------------|---------------------------------------------------------------------------------------|
| MALZEME<br>MATERIAL<br>MATERIAL                     | Kauçuk yapıştırıcı ile kaplanmış PVC film.<br>PVC film coated with rubber adhesive.<br>PVC-Folie mit Kautschukkleber beschichtet.                                                                                                                                                                                                                                                                       |                       |                         |                      |                        |  |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>NUTZUNGSZWECK | Elektrik, ısı, ses yalıtımı ve Split Klimaların boru yalıtımlarında kullanılır. Çeliğe yapışma mukavemeti 2,0 N/m.<br>It is used in electricity, heat, sound insulation and pipe insulation of Split Air Conditioners.<br>Adhesion strength to steel 2.0 N/m.<br>Es wird in der Strom-, Wärme-, Schalldämmung und Rohrisolierung von Split-Klimaanlagen verwendet.<br>Haftfestigkeit auf Stahl 2,0 N/m. |                       |                         |                      |                        |                                                                                       |

| TEKNİK ÖLÇÜLERİ   | TECHNICAL DIMENSIONS | TECHNISCHE ABMESSUNGEN |
|-------------------|----------------------|------------------------|
| EN, WIDTH, BREITE | 19 mm                |                        |
| BOY, SIZE, GRÖSSE | 10 YARDA = 9,14M     | 10 YARDS = 9,14M       |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# YAPIŞKANLI KAPI PENCERE BANTLARI

ADHESIVE RUBBER WEATHERSTRIP

KLEBENDE GUMMI-DICHTSTREIFEN

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                         | İNCE<br>THIN<br>DÜNN                                                                                            | KALIN<br>THICK                                                            |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                     | 8x5 mm                                                                                                          | 9x6 mm                                                                    |
| TİP<br>TYPE<br>TYP                                  | D Tip<br>D Type<br>D Typ                                                                                        | D Tip<br>D Type<br>D Typ                                                  |
| UZUNLUK<br>LENGTH<br>LÄNGE                          | 100 M (50x2) = 1 Rulo<br>100 M (50x2) = 1 Roll<br>100 M (50x2) = 1 Rollen                                       | 100 M (50x2) = 1 Rulo<br>100 M (50x2) = 1 Roll<br>100 M (50x2) = 1 Rollen |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm) | 1 KG/ Rulo<br>1 KG/ Roll<br>1 KG/ Rollen                                                                        | 1,3 KG/ Rulo<br>1,3 KG/ Roll<br>1,3 KG/ Rollen                            |
| RENK<br>COLOUR<br>FARBE                             | Beyaz<br>White<br>Weiss                                                                                         | Kahverengi<br>Brown<br>Braun                                              |
| MALZEME<br>MATERIAL<br>MATERIAL                     | Kendinden yapışkanlı epdm köpük kauçuk.<br>Self adhesive epdm foam rubber.<br>Selbstklebendes epdm schaumgummi. |                                                                           |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# KOLİ BANTLARI

DUCT TAPE

KLEBEBAND

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                         | AKRİLİK KOLİ BANDI<br>ACRYLIC BOX TAPE<br>KASTENBAND AUS ACRYL                                                                    | HOTMELT KOLİ BANDI<br>HOTMELT BOX TAPE<br>KASTENKLEBEBAND HOTMELT                                             |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| MALZEME<br>MATERIAL<br>MATERIAL                     | Tutkallanmış çift yönlü polipropilen film<br>Glued duplex polypropylene film.<br>Gelebte bidirektionale polypropylenfolie.        |                                                                                                               |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>NUTZUNGSZWECK | Plastik ve naylon yüzeylerde kullanılır.<br>Used on plastic and nylon surfaces.<br>Auf kunststoff und nylonoberflächen verwendet. | Karton kapatmada kullanılır.<br>It is used for covering carton.<br>Es wird zum abdecken von karton verwendet. |

| TEKNİK ÖZELLİKLER                                                                 | TECHNICAL SPECIFICATIONS | TECHNISCHE DATEN |
|-----------------------------------------------------------------------------------|--------------------------|------------------|
|  | EN, WIDTH, BREITE        | 45 mm            |
|                                                                                   | BOY, SIZE, GRÖSSE        | 100 m            |

# MASKELEME BANTLARI

MASKING TAPE

ABDECKBAND

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                         | HOTMELT MASKELEME                                                                                                                                                                                         | DOĞAL KAUÇUK MASKELEME                                                                |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| MALZEME<br>MATERIAL<br>MATERIAL                     | Kauçuk emdirilmiş kağıt bant.<br>Rubber impressed paper tape.<br>Gummigedrucktes papierband.                                                                                                              |  |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>NUTZUNGSZWECK | Boya, Otomotiv ve Mobilya/İnşaat sektörlerinde kullanılır.<br>It is used in Paint, Automotive and Furniture/Construction sectors.<br>Es wird in den Bereichen Farben, Automobil und Möbel/Bau eingesetzt. |                                                                                       |

| HOTMELT MASKELEME ÖLÇÜ TABLOSU / HOTMELT MASKING MEASUREMENT TABLE / MESSTABELLE FÜR HOTMELT-MASKING |      |      |      |      |
|------------------------------------------------------------------------------------------------------|------|------|------|------|
| EN, WIDTH, BREITE                                                                                    | 18mm | 24mm | 36mm | 48mm |
| BOY, SIZE, GRÖSSE                                                                                    | 25 m | 25 m | 25 m | 25 m |

| DOĞAL KAUÇUK MASKELEME ÖLÇÜ TABLOSU / NATURAL RUBBER MASKING MEASUREMENT TABLE / NATURKAU SCHUK-MASKING-MESSTABELLE |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------|------|------|------|------|
| EN, WIDTH, BREITE                                                                                                   | 18mm | 24mm | 36mm | 48mm |
| BOY, SIZE, GRÖSSE                                                                                                   | 25 m | 25 m | 25 m | 25 m |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# TEFLON BANTLAR

TEFLON TAPE

TEFLONBAND

|                                          |                                                             |                         |                                                                                     |
|------------------------------------------|-------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|
| ÖLÇÜ<br>DIMENSIONS<br>MASSE              | 12mm* 0,075mm* 10m                                          | 12mm* 0,075mm* 10m      |  |
| RENK<br>COLOUR<br>FARBE                  | BEYAZ<br>WHITE<br>WEISS                                     | BEYAZ<br>WHITE<br>WEISS |                                                                                     |
| YOĞUNLUK<br>INTENSITY<br>INTENSITÄT      | 0,3 g/ cm <sup>3</sup>                                      | 0,25 g/ cm <sup>3</sup> |                                                                                     |
| NET AĞIRLIK<br>NET WEIGHT<br>REINGEWICHT | 2,7 g                                                       | 2,7 g                   |                                                                                     |
| DETAY<br>DETAIL<br>DETAIL                | Yapışkan özelliği yoktur.<br>Not adhesive.<br>Nichtklebend. |                         |                                                                                     |



**DÜZENLEYİCİLER**  
ORGANIZERS

# AVADANLIKLAR

STORAGE BINS

LAGERBEHÄLTER

|              |                                                                                    |                          |                           |                           |                           |
|--------------|------------------------------------------------------------------------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| ÜRÜN GÖRSELİ |  |                          |                           |                           |                           |
| ÜRÜN ADI     | Avadanlık                                                                          |                          |                           |                           |                           |
| ÇEŞİTLERİ    | NO:1                                                                               | NO:2                     | NO:3                      | NO:4                      | NO:5                      |
| RENK         | Kırmızı, Mavi, Siyah                                                               | Kırmızı, Mavi, Siyah     | Kırmızı, Mavi, Siyah      | Kırmızı, Mavi, Siyah      | Kırmızı, Mavi, Siyah      |
| ÖLÇÜLERİ     | (WxLxH) mm<br>82x100x52                                                            | (WxLxH) mm<br>165x100x82 | (WxLxH) mm<br>230x153x125 | (WxLxH) mm<br>335x210x165 | (WxLxH) mm<br>505x320x200 |

## AVADANLIK DOLAPLARI

STORAGE CABINETS

VLAGERSCHRÄNKE

|              |                                                                                    |                            |                            |
|--------------|------------------------------------------------------------------------------------|----------------------------|----------------------------|
| ÜRÜN GÖRSELİ |  |                            |                            |
| ÜRÜN ADI     | Avadanlık Dolapları                                                                |                            |                            |
| ÇEŞİTLERİ    | Kapaklı Avadanlık Dolabı 1                                                         | Kapaklı Avadanlık Dolabı 2 | Kapaklı Avadanlık Dolabı 3 |
| ÖLÇÜLERİ     | (WxLxH) mm<br>400x1600x900                                                         | (WxLxH) mm<br>260x1600x700 | (WxLxH) mm<br>400x1600x900 |

## ÇEKMECE MODÜLLERİ

DRAWER MODULES

SCHUBLADENMODULE

|              |                                                                                                |  |  |
|--------------|------------------------------------------------------------------------------------------------|--|--|
| ÜRÜN GÖRSELİ |            |  |  |
| ÜRÜN ADI     | Hobby Set 1- 2- 3- 4- 5- 6                                                                     |  |  |
| ÇEŞİTLERİ    | Kırmızı, Mavi, Siyah                                                                           |  |  |
| ÖLÇÜLERİ     | (WxLxH) mm: 120x225x280 - 120x450x335 - 140x340x255 - 140x425x335 - 120x1 12x225 - 140x450x339 |  |  |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# MODÜLLER

MODULAR GROUP

MODULARE GRUPPE

|              |                                                                                    |                                                              |  |
|--------------|------------------------------------------------------------------------------------|--------------------------------------------------------------|--|
| ÜRÜN GÖRSELİ |  |                                                              |  |
| ÜRÜN ADI     | Modüller                                                                           |                                                              |  |
| ÇEŞİTLERİ    | Gezer Döner Modül                                                                  | Eksenel Modül                                                |  |
| ÖLÇÜLERİ     | (WxLxH) mm<br>630x630x1150                                                         | (WxLxH) mm<br>840x970x1520<br>880x1010x1540<br>880x1010x1560 |  |

## ORGANİZERLER

ORGANIZERS

VERANSTALTER

|              |                                                                                      |                              |                              |                              |
|--------------|--------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|
| ÜRÜN GÖRSELİ |  |                              |                              |                              |
| ÜRÜN ADI     | Polymax / Double                                                                     |                              |                              |                              |
| ÇEŞİTLERİ    | Poly max 32 Organizer                                                                | Poly Max 38 Organizer        | Poly Max 48 Organizer        | Poly Max Double Organizer    |
| ÖLÇÜLERİ     | (WxLxH) mm<br>270 x 330 x 60                                                         | (WxLxH) mm<br>210 x 389 x 67 | (WxLxH) mm<br>373 x 470 x 80 | (WxLxH) mm<br>270 x 320 x 60 |

## ORGANİZERLER

ORGANIZERS

VERANSTALTER

|              |                                                                                      |                                                     |                                                      |
|--------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|
| ÜRÜN GÖRSELİ |  |                                                     |                                                      |
| ÜRÜN ADI     | Poly                                                                                 |                                                     |                                                      |
| ÇEŞİTLERİ    | Poly Organizer<br>1/8, 2/12, 3/8<br>Kırmızı, Mavi                                    | Poly Organizer<br>32, 38, 48                        | Poly Organizer<br>31/16, 41/24, Set                  |
| ÖLÇÜLERİ     | (WxLxH) mm<br>140x165x35, 155x265x40,<br>180x303x80                                  | (WxLxH) mm<br>265x320x50, 300x380x60,<br>375x480x75 | (WxLxH) mm<br>255x300x54, 370x400x58,<br>279x322x297 |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



**MANUEL  
EL ALETLERİ**  
MANUAL  
HAND TOOLS

# 12V 2.0AH LI-ION ÇİFT AKÜLÜ MATKAP

DCD710D2

|                                           |                     |
|-------------------------------------------|---------------------|
| Akü Voltajı                               | 12V                 |
| Akü Tipi                                  | Li-Ion              |
| Akü Kapasitesi                            | 2.0 Ah              |
| Maksimum Tork (Yumuşak/Sert)              | 15 / 24 Nm          |
| Yüksüz Hızı                               | 0-400/1500 dev/dak. |
| Mandren Kapasitesi                        | 1-10 mm             |
| Maksimum Delme Kapasitesi [Ahşap / Metal] | 20 / 10 mm          |
| Ağırlık                                   | 1.1 kg              |
| Uzunluk x Yükseklik                       | 185 x 195 mm        |



## 12V 2.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ KOMPAKT MATKAP

DCD701D2

|                                   |                         |
|-----------------------------------|-------------------------|
| Akü Voltajı                       | 12V                     |
| Akü Tipi                          | Li-ion                  |
| Akü Kapasitesi                    | 2.0 Ah                  |
| Maksimum Tork (Yumuşak)           | 25.5 Nm                 |
| Maksimum Tork (Sert)              | 57.5 Nm                 |
| Yüksüz Hızı                       | 0-425 / 0-1500 dev/dak. |
| Mandren Kapasitesi                | 10 mm                   |
| Maksimum Delme Kapasitesi (Ahşap) | 20 mm                   |
| Maksimum Delme Kapasitesi (Metal) | 10 mm                   |
| Ağırlık                           | 1 kg (batarya hariç)    |
| Uzunluk x Yükseklik               | 152 x 185 mm            |



## 12V 2.0AH LI-ION ÇİFT AKÜLÜ KÖMÜRSÜZ DARBELİ TORNAVİDA

DCF801D2

|                     |                          |
|---------------------|--------------------------|
| Akü Voltajı         | 12V                      |
| Akü Tipi            | Li-ion                   |
| Akü Kapasitesi      | 2.0 Ah                   |
| Maksimum Tork       | 163 Nm                   |
| Yüksüz Hızı         | 0-950/1950/2850 dev/dak. |
| Darbe oranı         | 0-3600 dar/dak.          |
| Uç Tutucu           | 6.35 mm                  |
| Ağırlık             | 0.8 kg (batarya hariç)   |
| Uzunluk x Yükseklik | 125 x 188 mm             |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 18V 1.5AH LI-ION ÇİFT AKÜLÜ DARBESİZ MATKAP

DCD771S2

|                                           |                     |
|-------------------------------------------|---------------------|
| Akü Voltajı                               | 18V                 |
| Akü Tipi                                  | Li-ion              |
| Akü Kapasitesi                            | 1.5 Ah              |
| Maksimum Tork (Sert)                      | 42 Nm               |
| Maksimum Tork (Yumuşak)                   | 24 Nm               |
| Yüksüz Hızı                               | 0-450/1500 dev/dak. |
| Mandren Kapasitesi                        | 1.5-13 mm           |
| Maksimum Delme Kapasitesi [Ahşap / Metal] | 30/13 mm            |
| Ağırlık                                   | 1.65 kg             |
| Uzunluk x Yükseklik                       | 219 x 191 mm        |



# 18V 1.5AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBESİZ MATKAP

DCD777S2T

|                                           |                     |
|-------------------------------------------|---------------------|
| Akü Voltajı                               | 18V                 |
| Akü Tipi                                  | Li-ion              |
| Akü Kapasitesi                            | 1.5 Ah              |
| Maksimum Tork (Sert)                      | 65 Nm               |
| Maksimum Tork (Yumuşak)                   | 26 Nm               |
| Yüksüz Hızı                               | 0-500/1750 dev/dak. |
| Mandren Kapasitesi                        | 1.5-13 mm           |
| Maksimum Delme Kapasitesi [Ahşap / Metal] | 30/13 mm            |
| Ağırlık                                   | 1.5 kg              |
| Uzunluk x Yükseklik                       | 192 x 198 mm        |



# 18V 2.0AH LI-ION KOMPAKT KÖMÜRSÜZ ÇİFT AKÜLÜ DARBESİZ MATKAP

DCD708D2T

|                                           |                     |
|-------------------------------------------|---------------------|
| Akü Voltajı                               | 18V                 |
| Akü Tipi                                  | Li-ion              |
| Akü Kapasitesi                            | 2.0 Ah              |
| Maksimum Tork (Sert)                      | 65 Nm               |
| Maksimum Tork (Yumuşak)                   | 26 Nm               |
| Yüksüz Hızı                               | 0-450/1650 dev/dak. |
| Mandren Kapasitesi                        | 1.5-13 mm           |
| Maksimum Delme Kapasitesi [Ahşap / Metal] | 35/13 mm            |
| Ağırlık                                   | 1.45 kg             |
| Uzunluk x Yükseklik                       | 160 x 198 mm        |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 18V 2.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBESİZ MATKAP

DCD800D2T

|                                   |                         |
|-----------------------------------|-------------------------|
| Akü Voltajı                       | 18V                     |
| Akü Tipi                          | Li-ion                  |
| Akü Kapasitesi                    | 2.0 Ah                  |
| Maksimum Tork (Yumuşak)           | 27 Nm                   |
| Maksimum Tork (Sert)              | 90 Nm                   |
| Yüksüz Hızı                       | 0-650/ 0-2000 dev/dak.  |
| Mandren Kapasitesi                | 13 mm                   |
| Maksimum Delme Kapasitesi (Ahşap) | 55 mm                   |
| Maksimum Delme Kapasitesi (Metal) | 13 mm                   |
| Ağırlık                           | 1.28 kg (batarya hariç) |
| Uzunluk x Yükseklik               | 163,8 x 205,7 mm        |



# 18V 5.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBESİZ MATKAP

DCD791P2

|                                           |                     |
|-------------------------------------------|---------------------|
| Akü Voltajı                               | 18V                 |
| Akü Tipi                                  | Li-ion              |
| Akü Kapasitesi                            | 5.0 Ah              |
| Maksimum Tork (Sert)                      | 70 Nm               |
| Maksimum Tork (Yumuşak)                   | 27 Nm               |
| Yüksüz Hızı                               | 0-550/2000 dev/dak. |
| Mandren Kapasitesi                        | 1.5-13 mm           |
| Maksimum Delme Kapasitesi [Ahşap / Metal] | 40/13 mm            |
| Ağırlık                                   | 1.72 kg             |
| Uzunluk x Yükseklik                       | 173 x 203 mm        |



# 18V 5.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBESİZ MATKAP

DCD800P2T

|                                   |                         |
|-----------------------------------|-------------------------|
| Akü Voltajı                       | 18V                     |
| Akü Tipi                          | Li-ion                  |
| Akü Kapasitesi                    | 5.0 Ah                  |
| Maksimum Tork (Yumuşak)           | 27 Nm                   |
| Maksimum Tork (Sert)              | 90 Nm                   |
| Yüksüz Hızı                       | 0-650/ 0-2000 dev/dak.  |
| Mandren Kapasitesi                | 13 mm                   |
| Maksimum Delme Kapasitesi (Ahşap) | 55 mm                   |
| Maksimum Delme Kapasitesi (Metal) | 13 mm                   |
| Ağırlık                           | 1.28 kg (batarya hariç) |
| Uzunluk x Yükseklik               | 163,8 x 205,7 mm        |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# DCD776S2

|                                         |                       |
|-----------------------------------------|-----------------------|
| Akū Voltajı                             | 18V                   |
| Akū Tipi                                | Li-lon                |
| Akū Kapasitesi                          | 1.5 Ah                |
| Maksimum Tork (Sert)                    | 42 Nm                 |
| Maksimum Tork (Yumuşak)                 | 24 Nm                 |
| Yüksüz Hızı                             | 0-400/1500 dev/dak.   |
| Darbe Oranı                             | 0-7650/25500 dar/dak. |
| Mandren Kapasitesi                      | 1.5-13 mm             |
| Maks. Delme Kap. [Ahşap / Metal/ Duvar] | 30/13/13 mm           |
| Ağırlık                                 | 1.7 kg                |
| Uzunluk x Yükseklik                     | 228 x 191 mm          |



## 18V 2.0AH LI-ION KOMPAKT KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ MATKAP

# DCD709D2T

|                                         |                     |
|-----------------------------------------|---------------------|
| Akū Voltajı                             | 18V                 |
| Akū Tipi                                | Li-Ion              |
| Akū Kapasitesi                          | 2.0 Ah              |
| Maksimum Tork (Sert)                    | 65 Nm               |
| Maksimum Tork (Yumuşak)                 | 26 Nm               |
| Yüksüz Hızı                             | 0-450/1650 dev/dak. |
| Darbe Oranı                             | 0-28050 dar/dak.    |
| Mandren Kapasitesi                      | 1.5-13 mm           |
| Maks. Delme Kap. [Ahşap / Metal/ Duvar] | 30/13/13 mm         |
| Ağırlık                                 | 1.5 kg              |
| Uzunluk x Yükseklik                     | 175 x 198 mm        |



# 18V 2.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ MATKAP

DCD796D2

|                                         |                       |
|-----------------------------------------|-----------------------|
| Akü Voltajı                             | 18V                   |
| Akü Tipi                                | Li-Ion                |
| Akü Kapasitesi                          | 2.0 Ah                |
| Maksimum Tork (Sert)                    | 70 Nm                 |
| Maksimum Tork (Yumuşak)                 | 27 Nm                 |
| Yüksüz Hızı                             | 0-550/2000 dev/dak.   |
| Darbe Oranı                             | 0-9350/34000 dar/dak. |
| Mandren Kapasitesi                      | 1.5-13 mm             |
| Maks. Delme Kap. [Ahşap / Metal/ Duvar] | 40/13/13 mm           |
| Ağırlık                                 | 1.60 kg               |
| Uzunluk x Yükseklik                     | 190 x 203 mm          |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 18V 2.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ MATKAP

DCD805D2T

|                                   |                         |
|-----------------------------------|-------------------------|
| Akü Voltajı                       | 18V                     |
| Akü Tipi                          | Li-ion                  |
| Akü Kapasitesi                    | 2.0 Ah                  |
| Maksimum Tork (Yumuşak)           | 27 Nm                   |
| Maksimum Tork (Sert)              | 90 Nm                   |
| Yüksüz Hızı                       | 0-650/ 0-2000 dev/dak.  |
| Darbe Oranı                       | 11.050/34.000 dar/dak.  |
| Mandren Kapasitesi                | 13 mm                   |
| Maksimum Delme Kapasitesi (Ahşap) | 55 mm                   |
| Maksimum Delme Kapasitesi (Metal) | 13 mm                   |
| Maksimum Delme Kapasitesi (Duvar) | 13 mm                   |
| Ağırlık                           | 1.34 kg (batarya hariç) |
| Uzunluk x Yükseklik               | 177,8 x 205,7 mm        |



# 18V 1.7AH LI-ION POWER STACK KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ MATKAP

DCD805E2T

|                                   |                          |
|-----------------------------------|--------------------------|
| Akü Voltajı                       | 18V                      |
| Akü Tipi                          | Li-ion                   |
| Akü Kapasitesi                    | 1.7 Ah Power Stack       |
| Maksimum Tork (Yumuşak)           | 27 Nm                    |
| Maksimum Tork (Sert)              | 90 Nm                    |
| Yüksüz Hızı                       | 0-650/ 0-2000 dev/dak.   |
| Darbe Oranı                       | 11.050 / 34.000 dar/dak. |
| Mandren Kapasitesi                | 13 mm                    |
| Maksimum Delme Kapasitesi (Ahşap) | 55 mm                    |
| Maksimum Delme Kapasitesi (Metal) | 13 mm                    |
| Maksimum Delme Kapasitesi (Duvar) | 13 mm                    |
| Ağırlık                           | 1.34 kg (batarya hariç)  |
| Uzunluk x Yükseklik               | 177,8 x 205,7 mm         |



DEWALT POWER STACK



# 18V 5.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ MATKAP

DCD796P2

|                                         |                       |
|-----------------------------------------|-----------------------|
| Akü Voltajı                             | 18V                   |
| Akü Tipi                                | Li-ion                |
| Akü Kapasitesi                          | 5.0 Ah                |
| Maksimum Tork (Sert)                    | 70 Nm                 |
| Maksimum Tork (Yumuşak)                 | 27 Nm                 |
| Yüksüz Hızı                             | 0-550/2000 dev/dak.   |
| Darbe Oranı                             | 0-9350/34000 dar/dak. |
| Mandren Kapasitesi                      | 1.5-13 mm             |
| Maks. Delme Kap. [Ahşap / Metal/ Duvar] | 40/13/13 mm           |
| Ağırlık                                 | 1.82 kg               |
| Uzunluk x Yükseklik                     | 190 x 203 mm          |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 18V 5.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ MATKAP

DCD805P2T

|                                   |                          |
|-----------------------------------|--------------------------|
| Akü Voltajı                       | 18V                      |
| Akü Tipi                          | Li-ion                   |
| Akü Kapasitesi                    | 5.0 Ah                   |
| Maksimum Tork (Yumuşak)           | 27 Nm                    |
| Maksimum Tork (Sert)              | 90 Nm                    |
| Yüksüz Hızı                       | 0-650/ 0-2000 dev/dak.   |
| Darbe Oranı                       | 11.050 / 34.000 dar/dak. |
| Mandren Kapasitesi                | 13mm                     |
| Maksimum Delme Kapasitesi (Ahşap) | 55mm                     |
| Maksimum Delme Kapasitesi (Metal) | 13mm                     |
| Maksimum Delme Kapasitesi (Duvar) | 13mm                     |
| Ağırlık                           | 1.34 kg (batarya hariç)  |
| Uzunluk x Yükseklik               | 177,8 x 205,7 mm         |



## 18V 2.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ TORNAVİDA

DCF887D2

|                     |                           |
|---------------------|---------------------------|
| Akü Voltajı         | 18V                       |
| Akü Tipi            | Li-Ion                    |
| Akü Kapasitesi      | 2.0 Ah                    |
| Maksimum Tork       | 205 Nm                    |
| Yüksüz Hızı         | 0-1000/2800/3250 dev/dak. |
| Darbe Oranı         | 0 - 3800 dar/dak.         |
| Maksimum Somun Çapı | M14                       |
| Uç Tutucu           | 6.35 mm (1/4")            |
| Ağırlık             | 1.35 kg                   |
| Uzunluk x Yükseklik | 134 x 245 mm              |



## 18V 2.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ TORNAVİDA

DCF850D2T

|                     |                              |
|---------------------|------------------------------|
| Akü Voltajı         | 18V                          |
| Akü Tipi            | Li-ion                       |
| Akü Kapasitesi      | 2.0 Ah                       |
| Maksimum Tork       | 206 Nm                       |
| Yüksüz Hızı         | 0-1.000/2.800/3.250 dev/dak. |
| Darbe Oranı         | 0-3800 dar/dak.              |
| Uç Tutucu           | 6.35 mm                      |
| Ağırlık             | 0,9 kg (batarya hariç)       |
| Uzunluk x Yükseklik | 101 x 210 mm                 |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 18V 5.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ TORNAVİDA

DCF887P2

|                     |                           |
|---------------------|---------------------------|
| Akü Voltajı         | 18V                       |
| Akü Tipi            | Li-Ion                    |
| Akü Kapasitesi      | 5.0 Ah                    |
| Maksimum Tork       | 205 Nm                    |
| Yüksüz Hızı         | 0-1000/2800/3250 dev/dak. |
| Darbe Oranı         | 0 - 3800 dar/dak.         |
| Maksimum Somun Çapı | M14                       |
| Uç Tutucu           | 6.35 mm (1/4")            |
| Ağırlık             | 1.52 kg                   |
| Uzunluk x Yükseklik | 134 x 245 mm              |



# 18V 5.0AH LI-ION KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ TORNAVİDA

DCF850P2T

|                     |                         |
|---------------------|-------------------------|
| Akü Voltajı         | 18V                     |
| Akü Tipi            | Li-ion                  |
| Akü Kapasitesi      | 5.0 Ah                  |
| Maksimum Tork       | 192 Nm                  |
| Yüksüz Hızı         | 0-3200 dev/dak.         |
| Uç Tutucu           | 6.35 mm                 |
| Darbe Oranı         | 0-4200 dar/dak.         |
| Ağırlık             | 0,88 kg (batarya hariç) |
| Uzunluk x Yükseklik | 129mm X 210 mm          |



# 18V 4.0AH 125MM LI-ION ÇİFT AKÜLÜ AVUÇ TAŞLAMA

DCG412M2

|                     |               |
|---------------------|---------------|
| Akü Voltajı         | 18V           |
| Akü Tipi            | Li-Ion        |
| Akü Kapasitesi      | 4.0 Ah        |
| Disk Çapı           | 125 mm        |
| Mil Bağlantısı      | M14           |
| Tetik Tipi          | Altan Tetik   |
| Yüksüz Hızı         | 7000 dev/dak. |
| Ağırlık             | 2.5 kg        |
| Uzunluk x Yükseklik | 400 x 125 mm  |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 18V 1.7AH LI-ION POWER STACK KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ TORNAV

DCF850E2T-QW

|                         |                                   |
|-------------------------|-----------------------------------|
| Akü Voltajı             | 18V                               |
| Akü Tipi                | Li-ion                            |
| Akü Kapasitesi          | 1.7 Ah Power Stack                |
| Maksimum Tork (Yumuşak) | 206 Nm                            |
| Yüksüz Hızı             | 0 – 1.000 / 2.800 /3.250 dev/dak. |
| Darbe Oranı             | 0–3800 dar/dak.                   |
| Uç Tutucu               | 6.35 mm                           |
| Ağırlık                 | 0,9 kg (batarya hariç)            |
| Uzunluk x Yükseklik     | 101 x 210 mm                      |



DEWALT POWER STACK



## 18V 3.0AH LI-ION KOMPAKT KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ TORNAVİDA

DCF809L2T

|                     |                   |
|---------------------|-------------------|
| Akü Voltajı         | 18V               |
| Akü Tipi            | Li-ion            |
| Akü Kapasitesi      | 3.0 Ah            |
| Maksimum Tork       | 190 Nm            |
| Yüksüz Hızı         | 0-2800 dev/dak.   |
| Darbe Oranı         | 0 - 3200 dar/dak. |
| Maksimum Somun Çapı | M12               |
| Uç Tutucu           | 6.35 mm (1/4")    |
| Ağırlık             | 1.25 kg           |
| Uzunluk x Yükseklik | 130 x 236 mm      |



## 18V 2.0AH LI-ION KOMPAKT KÖMÜRSÜZ ÇİFT AKÜLÜ DARBELİ TORNAVİDA

DCF840D2T

|                     |                         |
|---------------------|-------------------------|
| Akü Voltajı         | 18V                     |
| Akü Tipi            | Li-ion                  |
| Akü Kapasitesi      | 2.0 Ah                  |
| Maksimum Tork       | 192 Nm                  |
| Yüksüz Hızı         | 0-3200 dev/dak.         |
| Uç Tutucu           | 6.35 mm                 |
| Darbe Oranı         | 0-4200 dar/dak.         |
| Ağırlık             | 0,88 kg (batarya hariç) |
| Uzunluk x Yükseklik | 129mm X 210 mm          |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 18V 6.0AH 125MM LI-ION FLEXVOLT ADV. AVUÇ TAŞLAMA

DCG409T1

|                     |                     |
|---------------------|---------------------|
| Akü Voltajı         | 18V                 |
| Akü Tipi            | Li-ion              |
| Akü Kapasitesi      | 6.0 Ah              |
| Disk Çapı           | 125 mm              |
| Mil Bağlantısı      | M14                 |
| Tetik Tipi          | Yandan Tetik        |
| Yüksüz Hızı         | 9000 dev/dak.       |
| Ağırlık             | 1,81 kg             |
| Uzunluk x Yükseklik | 382,09 x 130,025 mm |



## 18V 4.0AH LI-ION KÖMÜRSÜZ SDS-PLUS PNÖMATİK MATKAP

DCH133M1

|                                         |                       |
|-----------------------------------------|-----------------------|
| Akü Voltajı                             | 18V                   |
| Akü Tipi                                | Li-Ion                |
| Akü Kapasitesi                          | 4.0 Ah                |
| Uç Tutucu                               | SDS-Plus              |
| Maksimum Darbe Gücü                     | 2.8 J                 |
| Darbe Gücü (EPTA 05/2009)               | 2.6 J                 |
| Yüksüz Hızı                             | 0-1500 dev/dak.       |
| Darbe Oranı                             | 0-5500 dar/dak.       |
| Optimum Delme Kapasitesi [Betonda]      | 4-14 mm               |
| Maks. Delme Kap. [Beton/ Ahşap / Metal] | 26/30/13 mm           |
| Keski / Oyma Modu                       | Evet                  |
| Ağırlık                                 | 2.9 kg                |
| Uzunluk x Yükseklik                     | 383 x 161 mm          |
| Vibrasyon Değeri                        | 14.5 m/s <sup>2</sup> |



## 18V 4.0AH LI-ION ÇİFT AKÜLÜ SDS-PLUS PNÖMATİK MATKAP

DCH253M2

|                                         |                      |
|-----------------------------------------|----------------------|
| Akü Voltajı                             | 18V                  |
| Akü Tipi                                | Li-Ion               |
| Akü Kapasitesi                          | 4.0 Ah               |
| Uç Tutucu                               | SDS-Plus             |
| Maksimum Darbe Gücü                     | 2.4 J                |
| Darbe Gücü (EPTA 05/2009)               | 2.1 J                |
| Yüksüz Hızı                             | 0-1200 dev/dak.      |
| Darbe Oranı                             | 0-4500 dar/dak.      |
| Optimum Delme Kapasitesi [Betonda]      | 4-12 mm              |
| Maks. Delme Kap. [Beton/ Ahşap / Metal] | 24/26/13 mm          |
| Keski / Oyma Modu                       | Evet                 |
| Ağırlık                                 | 3.1 kg               |
| Uzunluk x Yükseklik                     | 301 x 202 mm         |
| Vibrasyon Değeri                        | 6.6 m/s <sup>2</sup> |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 550W 10MM DARBESİZ MATKAP

DWD014S

|                                   |                 |
|-----------------------------------|-----------------|
| Giriş Gücü                        | 550W            |
| Mandren Kapasitesi                | 10 mm           |
| Yüksüz Hızı                       | 0-2800 dev/dak. |
| Maksimum Tork                     | 7.9 Nm          |
| Maksimum Delme Kapasitesi [Ahşap] | 25 mm           |
| Maksimum Delme Kapasitesi [Metal] | 10 mm           |
| Mil Bağlantısı                    | 1/2" x 20 U.N.F |
| Ağırlık                           | 1.34 kg         |
| Uzunluk x Yükseklik               | 225 x 170 mm    |



# 701W 10MM DARBESİZ MATKAP

DWD112S

|                                   |                 |
|-----------------------------------|-----------------|
| Giriş Gücü                        | 701W            |
| Mandren Kapasitesi                | 10 mm           |
| Yüksüz Hızı                       | 0-2500 dev/dak. |
| Maksimum Tork                     | 10.9 Nm         |
| Maksimum Delme Kapasitesi [Ahşap] | 25 mm           |
| Maksimum Delme Kapasitesi [Metal] | 10 mm           |
| Mil Bağlantısı                    | 1/2" x 20 U.N.F |
| Ağırlık                           | 1.8 kg          |
| Uzunluk x Yükseklik               | 230 x 190 mm    |



# 701W 13MM DARBELİ MATKAP

DWD024

|                                   |                 |
|-----------------------------------|-----------------|
| Giriş Gücü                        | 750W            |
| Mandren Kapasitesi                | 13 mm           |
| Yüksüz Hızı                       | 0-2800 dev/dak. |
| Darbe Oranı                       | 47600 dar/dak.  |
| Maksimum Tork                     | 8.6 Nm          |
| Maksimum Delme Kapasitesi [Ahşap] | 25 mm           |
| Maksimum Delme Kapasitesi [Metal] | 13 mm           |
| Maksimum Delme Kapasitesi [Beton] | 16 mm           |
| Ağırlık                           | 1.82 kg         |
| Uzunluk x Yükseklik               | 255 x 180 mm    |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 710W 3/4" SOMUN SIKMA MAKİNESİ

DW294

|                     |               |
|---------------------|---------------|
| Giriş Gücü          | 710W          |
| Maksimum Tork       | 440 Nm        |
| Yüksüz Hızı         | 2200 dev/dak. |
| Darbe Oranı         | 2700 dar/dak. |
| Ağırlık             | 3.2 kg        |
| Uzunluk x Yükseklik | 292 x 216 mm  |



## 800W 26MM 3.0J SDS-PLUS PNÖMATİK MATKAP

D25133K

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Giriş Gücü                              | 800W                          |
| Maksimum Darbe Gücü                     | 2.8 J                         |
| Darbe Gücü (EPTA 05/2009)               | 2.6 J                         |
| Yüksüz Hızı                             | 0-1500 dev/dak.               |
| Darbe Oranı                             | 0-5500 dar/dak.               |
| Optimum Delme Kapasitesi [Beton]        | 4-14 mm                       |
| Maksimum Delme Kapasitesi [Beton]       | 26 mm                         |
| Maks. Delme Kap. [Buat / Ahşap / Metal] | 50/30/13 mm                   |
| Çalışma Modu                            | Kırma / Darbeli Delme / Delme |
| Ağırlık                                 | 2.6 kg                        |
| Uzunluk x Yükseklik                     | 335 x 210 mm                  |
| Vibrasyon Değeri                        | 15.4 m/s²                     |



## 900W 28MM 3.0J SDS-PLUS PNÖMATİK MATKAP

D25143K

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Giriş Gücü                              | 900W                          |
| Maksimum Darbe Gücü                     | 3.2 J                         |
| Darbe Gücü (EPTA 05/2009)               | 3.0 J                         |
| Yüksüz Hızı                             | 0-1450 dev/dak.               |
| Darbe Oranı                             | 0-5350 dar/dak.               |
| Optimum Delme Kapasitesi [Beton]        | 4-18 mm                       |
| Maksimum Delme Kapasitesi [Beton]       | 28 mm                         |
| Maks. Delme Kap. [Buat / Ahşap / Metal] | 65/30/13 mm                   |
| Çalışma Modu                            | Kırma / Darbeli Delme / Delme |
| Ağırlık                                 | 3.0 kg                        |
| Uzunluk x Yükseklik                     | 340 x 210 mm                  |
| Vibrasyon Değeri                        | 14.9 m/s²                     |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 950W 30MM 3.5J SDS-PLUS PNÖMATİK MATKAP

D25334K

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Giriş Gücü                              | 950W                          |
| Maksimum Darbe Gücü                     | 4.2 J                         |
| Darbe Gücü (EPTA 05/2009)               | 3.5 J                         |
| Yüksüz Hızı                             | 0-1150 dev/dak.               |
| Darbe Oranı                             | 0-5200 dar/dak.               |
| Optimum Delme Kapasitesi [Beton]        | 6-20 mm                       |
| Maksimum Delme Kapasitesi [Beton]       | 30 mm                         |
| Maks. Delme Kap. [Buat / Ahşap / Metal] | 65/30/13 mm                   |
| Çalışma Modu                            | Kırma / Darbeli Delme / Delme |
| Ağırlık                                 | 3.9 kg                        |
| Uzunluk x Yükseklik                     | 375 x 250 mm                  |
| Vibrasyon Değeri                        | 6.9 m/s <sup>2</sup>          |



## 730W 115MM NO-VOLT AVUÇ TAŞLAMA

DWE4016

|                     |                |
|---------------------|----------------|
| Giriş Gücü          | 730W           |
| Disk Çapı           | 115 mm         |
| Tetik Tipi          | Yandan Tetik   |
| Yüksüz Hızı         | 11000 dev/dak. |
| Mil Bağlantısı      | M14            |
| Ağırlık             | 2.0 kg         |
| Uzunluk x Yükseklik | 270 x 80 mm    |



## 800W 115MM NO-VOLT AVUÇ TAŞLAMA

DWE4056

|                     |                |
|---------------------|----------------|
| Giriş Gücü          | 800W           |
| Disk Çapı           | 115 mm         |
| Tetik Tipi          | Yandan Tetik   |
| Yüksüz Hızı         | 11800 dev/dak. |
| Mil Bağlantısı      | M14            |
| Ağırlık             | 1.8 kg         |
| Uzunluk x Yükseklik | 270 x 80 mm    |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## 900W 115MM NO-VOLT AVUÇ TAŞLAMA

DWE4156

|                     |                |
|---------------------|----------------|
| Giriş Gücü          | 900W           |
| Disk Çapı           | 115 mm         |
| Tetik Tipi          | Yandan Tetik   |
| Yüksüz Hızı         | 11800 dev/dak. |
| Mil Bağlantısı      | M14            |
| Ağırlık             | 2.0 kg         |
| Uzunluk x Yükseklik | 270 x 80 mm    |



## 1400W 125MM NO-VOLT AVUÇ TAŞLAMA

DWE4237

|                     |                |
|---------------------|----------------|
| Giriş Gücü          | 1400W          |
| Disk Çapı           | 125 mm         |
| Tetik Tipi          | Yandan Tetik   |
| Yüksüz Hızı         | 11500 dev/dak. |
| Mil Bağlantısı      | M14            |
| Ağırlık             | 2.2 kg         |
| Uzunluk x Yükseklik | 285 x 80 mm    |



## 2200W 180MM BÜYÜK TAŞLAMA

DWE493

|                     |               |
|---------------------|---------------|
| Giriş Gücü          | 2200W         |
| Disk Çapı           | 180 mm        |
| Tetik Tipi          | Altan Tetik   |
| Yüksüz Hızı         | 8500 dev/dak. |
| Mil Bağlantısı      | M14           |
| Ağırlık             | 5.1 kg        |
| Uzunluk x Yükseklik | 484 x 112 mm  |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

## 2600W 180MM BÜYÜK TAŞLAMA

DWE497

|                     |               |
|---------------------|---------------|
| Giriş Gücü          | 2600W         |
| Disk Çapı           | 180 mm        |
| Tetik Tipi          | Altan Tetik   |
| Yüksüz Hızı         | 8500 dev/dak. |
| Mil Bağlantısı      | M14           |
| Ağırlık             | 5.4 kg        |
| Uzunluk x Yükseklik | 490 x 145 mm  |



## 2200W 230MM BÜYÜK TAŞLAMA

DWE492

|                     |               |
|---------------------|---------------|
| Giriş Gücü          | 2200W         |
| Disk Çapı           | 230 mm        |
| Tetik Tipi          | Altan Tetik   |
| Yüksüz Hızı         | 6600 dev/dak. |
| Mil Bağlantısı      | M14           |
| Ağırlık             | 5.2 kg        |
| Uzunluk x Yükseklik | 490 x 151 mm  |



## 2400W 230MM BÜYÜK TAŞLAMA

DWE4559

|                     |               |
|---------------------|---------------|
| Giriş Gücü          | 2400W         |
| Disk Çapı           | 230 mm        |
| Tetik Tipi          | Altan Tetik   |
| Yüksüz Hızı         | 6500 dev/dak. |
| Mil Bağlantısı      | M14           |
| Ağırlık             | 5.7 kg        |
| Uzunluk x Yükseklik | 520 x 145 mm  |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 2600W 230MM BÜYÜK TAŞLAMA

DWE4579

|                     |               |
|---------------------|---------------|
| Giriş Gücü          | 2600W         |
| Disk Çapı           | 230 mm        |
| Tetik Tipi          | Alttan Tetik  |
| Yüksüz Hızı         | 6500 dev/dak. |
| Mil Bağlantısı      | M14           |
| Aşırı Yük Koruması  | Evet          |
| Ağırlık             | 5.9 kg        |
| Uzunluk x Yükseklik | 520 x 145 mm  |



# 1500W 190MM DAİRE TESTERE

DWE5615

|                              |               |
|------------------------------|---------------|
| Giriş Gücü                   | 1500W         |
| Yüksüz Hızı                  | 5500 dev/dak. |
| Bıçak Çapı                   | 190 mm        |
| Bıçak Göbek Çapı             | 30 mm         |
| Maksimum Kesme Derinliği 90° | 68 mm         |
| Maksimum Kesme Derinliği 45° | 48 mm         |
| Ağırlık                      | 4.0 kg        |



# 1750W 235X30MM DAİRE TESTERE

D23700

|                              |               |
|------------------------------|---------------|
| Giriş Gücü                   | 1750W         |
| Yüksüz Hızı                  | 4700 dev/dak. |
| Bıçak Çapı                   | 235 mm        |
| Bıçak Göbek Çapı             | 30 mm         |
| Maksimum Kesme Derinliği 90° | 86 mm         |
| Maksimum Kesme Derinliği 45° | 62 mm         |
| Ağırlık                      | 8.2 kg        |
| Uzunluk x Yükseklik          | 430 x 290 mm  |



Değerler milimetre olarak verilmiştir.

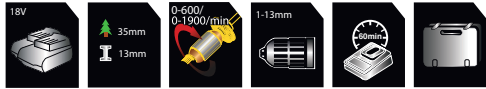
Values are given in millimeters.

Werte sind in millimetern angegeben.

# 18V 2.0AH V20 LİTYUM ÇİFT AKÜLÜ KÖMÜRSÜZ DARBELİ MATKAP

SBD715D2K

|                                |                        |
|--------------------------------|------------------------|
| Akü Voltajı                    | 18V                    |
| Akü Tipi                       | V20 Li-ion             |
| Akü Kapasitesi                 | 1.5 Ah                 |
| Maksimum Tork                  | 60 Nm                  |
| Yüksüz Hızı                    | 0-600/1900 dev/dak.    |
| Mandren Kapasitesi             | 13 mm                  |
| Maks. Delme Kapasitesi (Ahşap) | 35 mm                  |
| Maks. Delme Kapasitesi (Metal) | 13 mm                  |
| Koli Adedi                     | 3                      |
| Ağırlık                        | 1.2 kg (batarya hariç) |

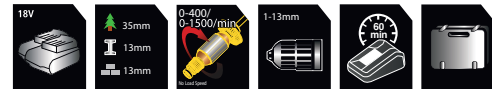


V20  
LITHIUM ION

## 18V 2.0AH V20 LİTYUM ÇİFT AKÜLÜ DARBELİ MATKAP

SCD718D2K

|                                |                        |
|--------------------------------|------------------------|
| Akü Voltajı                    | 18V                    |
| Akü Tipi                       | V20 Li-ion             |
| Akü Kapasitesi                 | 2.0 Ah                 |
| Maksimum Tork                  | 50 Nm                  |
| Yüksüz Hızı                    | 0-400/1.500 dev/dak.   |
| Mandren Kapasitesi             | 13 mm                  |
| Maks. Delme Kapasitesi (Ahşap) | 35 mm                  |
| Maks. Delme Kapasitesi (Metal) | 13 mm                  |
| Koli Adedi                     | 3                      |
| Ağırlık                        | 1.3 kg (batarya hariç) |



V20  
LITHIUM ION

## 18V V20 KÖMÜRSÜZ DARBELİ MATKAP (AKÜSÜZ)

SBD715B

|                                |                        |
|--------------------------------|------------------------|
| Akü Voltajı                    | 18V                    |
| Akü Tipi                       | V20 Li-ion             |
| Akü Kapasitesi                 | Akü süz                |
| Darbe Oranı                    | 0-32300 dar/dak.       |
| Maksimum Tork (sert)           | 60 nm                  |
| Yüksüz Hızı                    | 0-600/0-1.900 dev/dak. |
| Mandren Kapasitesi             | 13mm                   |
| Maks. Delme Kapasitesi (Ahşap) | 30 mm                  |
| Maks. Delme Kapasitesi (Metal) | 13 mm                  |
| Maks. Delme Kapasitesi (Duvar) | 13 mm                  |
| Ağırlık                        | 1.5 kg                 |



V20  
LITHIUM ION

Değerler milimetre olarak verilmiştir.

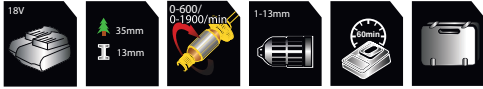
Values are given in millimeters.

Werte sind in millimetern angegeben.

# 18V 1.5AH V20 LİTYUM ÇİFT AKÜLÜ KÖMÜRSÜZ DARBESİZ MATKAP

SBD710C2K

|                                |                        |
|--------------------------------|------------------------|
| Akü Voltajı                    | 18V                    |
| Akü Tipi                       | V20 Li-ion             |
| Akü Kapasitesi                 | 1.5 Ah                 |
| Maksimum Tork                  | 60 Nm                  |
| Yüksüz Hızı                    | 0-600/1900 dev/dak.    |
| Mandren Kapasitesi             | 13 mm                  |
| Maks. Delme Kapasitesi (Ahşap) | 35 mm                  |
| Maks. Delme Kapasitesi (Metal) | 13 mm                  |
| Koli Adedi                     | 3                      |
| Ağırlık                        | 1.2 kg (batarya hariç) |

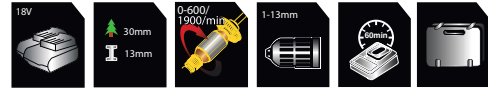


V20  
LITHIUM ION

## 18V 1.5AH V20 LİTYUM ÇİFT AKÜLÜ KÖMÜRSÜZ DARBELİ MATKAP

SBD715C2K

|                                |                          |
|--------------------------------|--------------------------|
| Akü Voltajı                    | 18V                      |
| Akü Tipi                       | V20 Li-ion               |
| Akü Kapasitesi                 | 1.5 Ah                   |
| Maksimum Tork                  | 60 Nm                    |
| Yüksüz Hızı                    | 0-600 / 0-1.900 dev/dak. |
| Mandren Kapasitesi             | 13 mm                    |
| Maks. Delme Kapasitesi (Ahşap) | 30 mm                    |
| Maks. Delme Kapasitesi (Metal) | 13 mm                    |
| Maks. Delme Kapasitesi (Duvar) | 13 mm                    |
| Koli Adedi                     | 3                        |
| Ağırlık                        | 1.2 kg (batarya hariç)   |

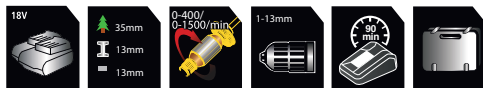


V20  
LITHIUM ION

## 18V 1.5AH V20 LİTYUM ÇİFT AKÜLÜ DARBELİ MATKAP

SCD711C2K

|                                |                          |
|--------------------------------|--------------------------|
| Akü Voltajı                    | 18V                      |
| Akü Tipi                       | V20 Li-ion               |
| Akü Kapasitesi                 | 1.5 Ah                   |
| Maksimum Tork                  | 50 Nm                    |
| Yüksüz Hızı                    | 0 - 400 / 1.500 dev/dak. |
| Mandren Kapasitesi             | 13 mm                    |
| Maks. Delme Kapasitesi (Ahşap) | 35 mm                    |
| Maks. Delme Kapasitesi (Metal) | 13 mm                    |
| Koli Adedi                     | 3                        |
| Ağırlık                        | 1.3 kg (batarya hariç)   |



V20  
LITHIUM ION

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

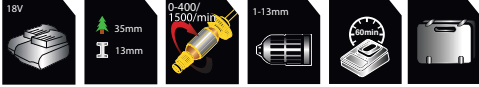
# 18V 2.0AH V20 LİTYUM ÇİFT AKÜLÜ DARBESİZ MATKAP

SCD700D2K

|                                |                        |
|--------------------------------|------------------------|
| Akü Voltajı                    | 18V                    |
| Akü Tipi                       | V20 Li-ion             |
| Akü Kapasitesi                 | 2.0 Ah                 |
| Maksimum Tork                  | 50 Nm                  |
| Yüksüz Hızı                    | 0-400 /1.500 dev/dak.  |
| Mandren Kapasitesi             | 13 mm                  |
| Maks. Delme Kapasitesi (Ahşap) | 35 mm                  |
| Maks. Delme Kapasitesi (Metal) | 13 mm                  |
| Koli Adedi                     | 4                      |
| Ağırlık                        | 1.2 kg (batarya hariç) |



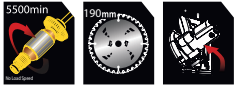
V20  
LITHIUM ION



## 1600W 190MM DAİRE TESTERE

SC16

|                            |              |
|----------------------------|--------------|
| Giriş Gücü                 | 1600 W       |
| Yüksüz Hızı                | 5500 dev/dak |
| Testere Çapı               | 190 mm       |
| Testere Delik Çapı         | 20/30 mm     |
| Açı Kapasitesi             | 45°          |
| Maks. Kesme Kapasitesi 90° | 65 mm        |
| Maks. Kesme Kapasitesi 45° | 50 mm        |
| Koli Adedi                 | 2            |
| Ağırlık                    | 3.9 kg       |



## 1650W 254MM GÖNYE TESTERE

SM16

|                            |               |
|----------------------------|---------------|
| Giriş Gücü                 | 1650W         |
| Yüksüz Hızı                | 4800 dev/dak. |
| Bıçak Kalınlığı            | 2.8 mm        |
| Bıçak Çapı                 | 254 X 30 mm   |
| Gönye Kapasitesi (sağ/sol) | 52°/47°       |
| Eğim Kapasitesi (sağ/sol)  | 0°/45°        |
| Koli Adedi                 | 1             |
| Ağırlık                    | 10.5 kg       |



Değerler milimetre olarak verilmiştir.

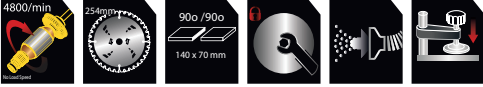
Values are given in millimeters.

Werte sind in millimetern angegeben.

# 1800W 254MM GÖNYE TESTERE

SM18

|                            |              |
|----------------------------|--------------|
| Giriş Gücü                 | 1800W        |
| Yüksüz Hızı                | 4800 dev/dak |
| Bıçak Kalınlığı            | 2.8 mm       |
| Bıçak Çapı                 | 254 X 30 mm  |
| Gönye Kapasitesi (sağ/sol) | 52°/47°      |
| Eğim Kapasitesi (sağ/sol)  | 45°/45°      |
| Koli Adedi                 | 1            |
| Ağırlık                    | 18.6 kg      |



# 1200W 32CM ÇİM KESME MAKİNESİ

BEMW451

|                        |               |
|------------------------|---------------|
| Güç                    | 1200W         |
| Kesme Geniřlięi        | 32cm          |
| Çim Toplama Kapasitesi | 35L           |
| Yüksüz Hız             | 3500 dev/dak. |
| Ağırlık                | 9.35kg        |



# 1200W 32CM ÇİM KESME MAKİNESİ

BEMW451BH

|                        |              |
|------------------------|--------------|
| Güç                    | 1200 W       |
| Kesme Geniřlięi        | 32cm         |
| Çim Toplama Kapasitesi | 35L          |
| Yüksüz Hız             | 3500 dev/dak |



Deęerler milimetre olarak verilmiřtir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# 1400W 34CM ÇİM KESME MAKİNESİ

BEMW461BH

|                        |              |
|------------------------|--------------|
| Güç                    | 1400 W       |
| Kesme Geniřlięi        | 34cm         |
| Çim Toplama Kapasitesi | 40L          |
| Yüksüz Hız             | 3500 dev/dak |



# 1600W 38CM ÇİM KESME MAKİNESİ

BEMW471BH

|                        |              |
|------------------------|--------------|
| Güç                    | 1600 W       |
| Kesme Geniřlięi        | 38cm         |
| Çim Toplama Kapasitesi | 45L          |
| Yüksüz Hız             | 3500 dev/dak |





# **HALAT BAĞLANTI ELEMENLARI**

ROPE CONNECTION  
ELEMENTS

# STD HALAT BAĞLANTI ELEMANLARI

RIGGING

TAKELWERK

| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG | ERKEK AYBOLT<br>EYE BOLT<br>RINGSCHRAUBE                                           |    |     |     |     |     |     |     |     |     |     |      |      |      |  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD              |  |    |     |     |     |     |     |     |     |     |     |      |      |      |  |
| MALZEME<br>MATERIAL                                       | Q235B                                                                              |    |     |     |     |     |     |     |     |     |     |      |      |      |  |
| KAPLAMA<br>COVERING<br>ABDECKUNG                          | Elektro Galvaniz                                                                   |    |     |     |     |     |     |     |     |     |     |      |      |      |  |
| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                           | M6                                                                                 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30  | M33  | M36  |  |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)       | 60                                                                                 | 60 | 115 | 180 | 180 | 290 | 290 | 430 | 430 | 880 | 880 | 1650 | 1650 | 2600 |  |

# STD HALAT BAĞLANTI ELEMANLARI

RIGGING

TAKELWERK

| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG | Dişi AYBOLT<br>EYE NUT<br>AUGENMUTTER                                                |    |     |     |     |     |     |     |     |     |     |      |      |      |  |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD              |  |    |     |     |     |     |     |     |     |     |     |      |      |      |  |
| MALZEME<br>MATERIAL                                       | Q235B                                                                                |    |     |     |     |     |     |     |     |     |     |      |      |      |  |
| KAPLAMA<br>COVERING<br>ABDECKUNG                          | ELEKTRO GALVANİZ                                                                     |    |     |     |     |     |     |     |     |     |     |      |      |      |  |
| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                           | M6                                                                                   | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30  | M33  | M36  |  |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)       | 55                                                                                   | 55 | 85  | 150 | 150 | 250 | 250 | 340 | 485 | 740 | 700 | 1400 | 1400 | 2200 |  |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STD HALAT BAĞLANTI ELEMANLARI

RIGGING

TAKELWERK

| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG | GERDİRME/ ÇEKTİRME<br>TURNBUCKLE<br>SPANNSCHLOSS                                   |    |     |     |     |      |      |      |
|-----------------------------------------------------------|------------------------------------------------------------------------------------|----|-----|-----|-----|------|------|------|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD              |  |    |     |     |     |      |      |      |
| MALZEME<br>MATERIAL<br>MATERIAL                           | Q235B                                                                              |    |     |     |     |      |      |      |
| KAPLAMA<br>COVERING<br>ABDECKUNG                          | Elektro Galvaniz                                                                   |    |     |     |     |      |      |      |
| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                           | M6                                                                                 | M8 | M10 | M12 | M16 | M20  | M22  | M24  |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)       | 52                                                                                 | 95 | 165 | 275 | 655 | 1200 | 1700 | 2200 |

# STD HALAT BAĞLANTI ELEMANLARI

RIGGING

TAKELWERK

| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG | A TİPİ KLEMENS<br>A-TYPE WIRE ROPE CLIP<br>DRAHTSEILKLEMME TYP A                    |    |     |     |     |     |     |     | KLEMENS<br>WIRE ROPE CLIP<br>DRAHTSEILKLEMME                                          |    |     |     |     |     |     |     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------|----|-----|-----|-----|-----|-----|-----|---------------------------------------------------------------------------------------|----|-----|-----|-----|-----|-----|-----|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD              |  |    |     |     |     |     |     |     |  |    |     |     |     |     |     |     |
| MALZEME<br>MATERIAL<br>MATERIAL                           | Q235B                                                                               |    |     |     |     |     |     |     | Q235B                                                                                 |    |     |     |     |     |     |     |
| KAPLAMA<br>COVERING<br>ABDECKUNG                          | Elektro Galvaniz                                                                    |    |     |     |     |     |     |     | Elektro Galvaniz                                                                      |    |     |     |     |     |     |     |
| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                           | M6                                                                                  | M8 | M10 | M12 | M15 | M18 | M20 | M22 | M6                                                                                    | M8 | M10 | M12 | M14 | M16 | M19 | M22 |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)       | 20                                                                                  | 30 | 65  | 130 | 208 | 270 | 395 | 575 | 14,7                                                                                  | 26 | 52  | 105 | 120 | 170 | 220 | 340 |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STD HALAT BAĞLANTI ELEMANLARI

RIGGING

TAKELWERK

| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG | KARABİNA<br>SPRING SNAP HOOK<br>FEDERKARABINERHAKEN                               |      |    |    |     |     |     | VİDALI KARABİNA<br>SPRING SNAP HOOK WITH SCREW<br>FEDERKARABINERHAKEN MIT SCHRAUBE  |    |    |     |     |     |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------|------|----|----|-----|-----|-----|-------------------------------------------------------------------------------------|----|----|-----|-----|-----|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD              |  |      |    |    |     |     |     |  |    |    |     |     |     |
| MALZEME<br>MATERIAL                                       | Q195                                                                              |      |    |    |     |     |     | Q195                                                                                |    |    |     |     |     |
| KAPLAMA<br>COVERING<br>ABDECKUNG                          | Elektro Galvaniz                                                                  |      |    |    |     |     |     | Elektro Galvaniz                                                                    |    |    |     |     |     |
| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                           | M5                                                                                | M6   | M7 | M8 | M10 | M11 | M12 | M5                                                                                  | M6 | M8 | M10 | M11 | M12 |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)       | 14,5                                                                              | 25,5 | 41 | 60 | 120 | 175 | 246 | 16,5                                                                                | 28 | 64 | 124 | 180 | 254 |

# STD HALAT BAĞLANTI ELEMANLARI

RIGGING

TAKELWERK

| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG | ZİNCİR KİLİDİ<br>EUROPEAN TYPE SHACKLE<br>EUROPÄISCHER TYP SCHÄKEL                   |    |     |     |     |     |      |      |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------|----|-----|-----|-----|-----|------|------|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD              |  |    |     |     |     |     |      |      |
| MALZEME<br>MATERIAL<br>MATERIAL                           | Q235B                                                                                |    |     |     |     |     |      |      |
| KAPLAMA<br>COVERING<br>ABDECKUNG                          | Elektro Galvaniz                                                                     |    |     |     |     |     |      |      |
| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                           | M6                                                                                   | M8 | M10 | M12 | M16 | M20 | M22  | M24  |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)       | 22                                                                                   | 48 | 88  | 170 | 400 | 780 | 1100 | 1650 |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

A construction site at sunset or sunrise, featuring a large crane and a building under construction covered in scaffolding. The scene is bathed in a warm, golden light. A dark blue vertical bar is positioned in the center, containing the text.

# **İNŞAAT MALZEMELERİ**

CONSTRUCTION  
MATERIALS

# ÇATI SEMERLERİ

ROOF SADDLES

DACHSATTELE

|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                                                    | 20x45mm                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 42x45mm |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)                                | 4,44                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| RENK<br>COLOUR<br>FARBE                                                            | RAL 9002, RAL 3004, RAL 3009, RAL 6020                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| DETAY<br>DETAIL<br>DETAIL                                                          | <p>Çatı Semeri, montaj sırasında malzemenin zarar görmesini engeller.<br/>Vida deliğinden su sızdırma olasılığını ortadan kaldırır.</p> <p>The Roof Saddle prevents the material from being damaged during assembly<br/>It eliminates the possibility of water leaking from the screw hole.</p> <p>Der Dachsattel verhindert, dass das Material bei der Montage beschädigt wird.<br/>Es eliminiert die Möglichkeit, dass Wasser aus dem Schraubenloch austritt.</p> |         |
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |

# ÇİROZLAR

DISTANCE PIECES

DISTANZSTÜCKE

| AĞIRLIK (grams)<br>WEIGHT (grams)<br>GEWICHT(grams)         | 400                                                         |  |
|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------|
| TABLA KALINLIĞI<br>TABLE THICKNESS<br>TISCHDICKE            | 3mm-4mm                                                     |                                                                                       |
| U DEMİRİ KALINLIĞI<br>U BAR THICKNESS<br>U-STANGENDICKE     | 4mm-6mm                                                     |                                                                                       |
| MANDAL KALINLIĞI<br>LATCH THICKNESS                         | 1x50m-1x20m                                                 |                                                                                       |
| MANDAL MALZEMESİ<br>LATCH MATERIAL<br>VERRIEGELUNGSMATERIAL | Sertleştirilmiş çelik<br>Hardened steel<br>Geharteter stahl |                                                                                       |
| KAPLAMA<br>COATING<br>ÜBERZUG                               | Çinko<br>Zinc<br>Zink                                       |                                                                                       |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

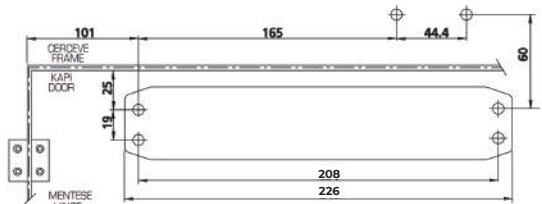
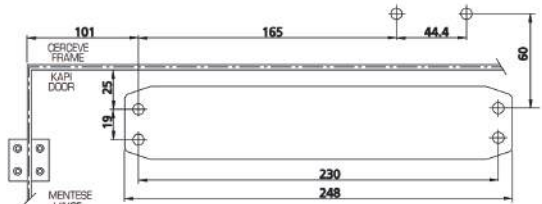
Werte sind in millimetern angegeben.

# KAPI HİDROLİKLERİ

DOOR CLOSERS

TÜRSCHLIESSERE

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                         | (NO-3) 40-65 KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (NO-4) 60-85 KG                       |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm) | 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2500                                  |
| MALZEME<br>MATERIAL<br>MATERIAL                     | Alüminyum gövde + çelik aksesuar<br>Aluminum body + steel accessories<br>Aluminiumgehäuse + stahlzubehör                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |
| YÜZEY<br>AUFTAUCHEN<br>SURFACE                      | Mat satin<br>Matt satin<br>Matt satin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mat satin<br>Matt satin<br>Matt satin |
| DETAY<br>DETAIL<br>DETAIL                           | 3 yıl garantilidir. Guaranteed for 3 years. 3 Jahre garantie.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |
|                                                     | Sağ ve sol kullanıma uygundur.<br>Suitable for right and left use.<br>Geeignet für den rechten und den linken gebrauch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                                                     | Kapanmaz hızı ayarlanabilir.<br>Close speed can be adjusted.<br>Schliebgeschwindigkeit kann eingestellt werden.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>NUTZUNGSZWECK | <p>Bu ürünün ana görevi kapıyı kapatmaktır ancak kapanma pozisyonu yaklaştığında kapıyı yavaşlatmak ve kapının yumuşak kapanmasını sağlamak için de kullanılır.</p> <p>The main duty of this product is to close the door, but it is also used to slow the door to slow up and provide soft closing of the door when it close the closing position.</p> <p>Die hauptaufgabe dieses produkts ist das schliessen der tür, aber es wird auch verwendet, um die tür zu verlangsamen und ien sanftes schliessen der tür zu gewährleisten wenn sie sich der geschlossenen position nahe.</p> |                                       |

| TEKNİK ÇİZİM                                                                        | TECHNICAL DRAWING                                                                                    | TECHNISCHE ZEICHNUNG                                                                                             |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  |  <p>40-65 kg</p> |  <p>60-85 kg / 80-120 kg</p> |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

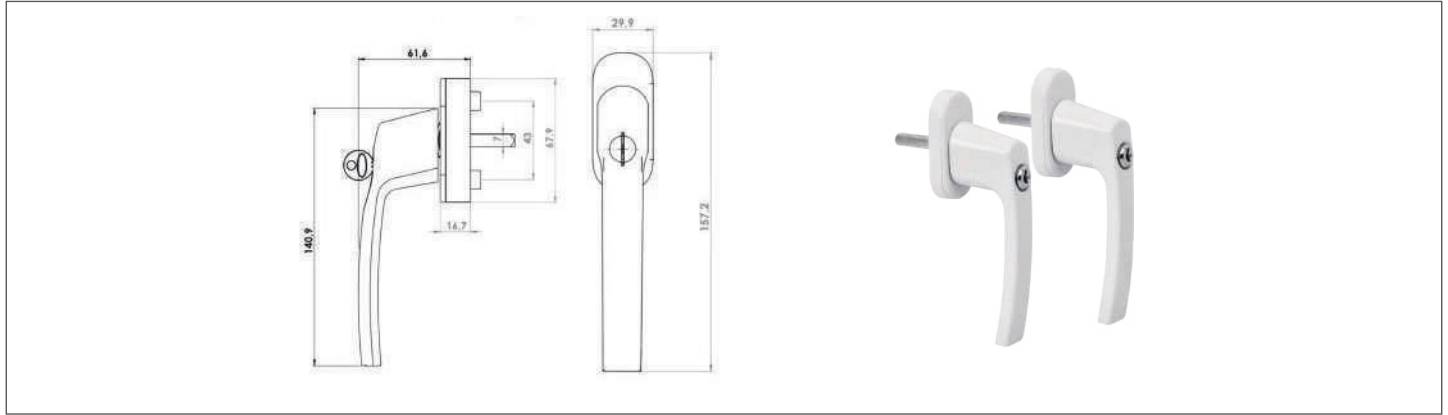
Werte sind in millimetern angegeben.

# KİLİTLİ PENCERE KOLLARI

LOCKED WINDOW HANDLES

VERSCHLOSSENER FENSTERGRIFFE

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                         | TEKLİ KOLLAR<br>SINGLE ARM<br>EINZELARM                                                                                                  |                           | ÇİFTLİ KOLLAR<br>DOUBLE ARM<br>DOPPELARM  |                                         |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|-----------------------------------------|
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm) | 205                                                                                                                                      |                           | 375                                       |                                         |
| MALZEME<br>MATERIAL<br>MATERIAL                     | Taban zamak, kol ve kaplama alüminyum<br>Base zamak, handle and coating aluminum<br>Untergestell zamak, griff und beschichtung aluminium |                           | Alüminyum<br>Aluminium<br>Alles Aluminium |                                         |
| RENK<br>COLOUR<br>FARBE                             | Beyaz<br>White<br>Weiss                                                                                                                  | Siyah<br>Black<br>Schwarz | Gümüş gri<br>Silver grey<br>Silber grau   | Antrasit<br>Anthracite<br>Anthrazitgrau |
|                                                     | RAL9016                                                                                                                                  | RAL 9005                  | RAL 7001                                  | RAL 7016                                |



## PENCERE SÜRGÜ TEKERİ

WINDOW SLIDER

FENSTERSCHEIBER

|                                                         | UZUNLUK (mm)<br>LENGTH (mm)<br>LÄNGE (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | GENİŞLİK (mm)<br>WIDTH (mm)<br>BREITE (mm) | YÜKSEKLİK (mm)<br>HEIGHT (mm)<br>HÖHE (mm) | NET AĞIRLIK(gr)<br>NET WEIGHT (gr)<br>NETTOGEWICHT (gr) | TAŞIMA KAPASİTESİ<br>(kg)<br>CARRYING CAPACITY<br>(kg)<br>TRAGKAPAZİTÄT (kg)          | KOLİ İÇİ ADET<br>QUANTITY PER<br>CARTON<br>MENGE PRO<br>KARTON |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------|
| TEKER DETAYI<br>WHEEL DETAIL<br>RADDETAIL               | <p>Polyamid teker, kırılmaya karşı dirençlidir. Çalıştığı zemine zarar vermez ve renk atması olmaz.</p> <p>Polyamide wheel is resistant to breakage. It does not damage the surface it works on and does not cause discoloration.</p> <p>Das Polyamidrad ist bruchsicher. Es beschädigt die Oberfläche, auf der es arbeitet, nicht und verursacht keine Verfärbungen.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |                                            |                                                         |  |                                                                |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>ZWECK DER NUTZUNG | <p>Pencere sürgü tekeri; sürgülü kapı ve pencere sistemlerinizi daha işlevsel ve dayanıklı hale getirir. Bu tekerlekler, sessiz ve pürüzsüz bir hareket sağlayarak yaşam alanlarınızda konforu artırır. Dayanıklı malzemesi sayesinde uzun ömürlü bir kullanım sunar.</p> <p>Window slider; it makes your sliding door and window systems more functional and durable. These wheels increase comfort in your living spaces by providing quiet and smooth movement. Thanks to its durable material, it offers long-lasting use.</p> <p>Fensterschieber; Es macht Ihre Schiebetür- und Fenstersysteme funktionaler und langlebiger. Diese Räder erhöhen den Komfort in Ihren Wohnräumen, indem sie für eine leise und reibungslose Bewegung sorgen. Dank seines langlebigen Materials bietet es eine lange Nutzungsdauer.</p> |                                            |                                            |                                                         |                                                                                       |                                                                |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# SIVA FİLELERİ

FIBERGLASS MESH

GLASFASERNETZ

| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                              | 160 g                                                                                                                                                                                | 160 g                | 75 g                                                                                 |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------|
| AĞIRLIK (gram/m²)<br>WEIGHT (grams/m²)<br>GEWICHT (gramm/m²) | 160                                                                                                                                                                                  | 160                  | 75                                                                                   |
| UZUNLUK (m/top)<br>LENGTH (m/roll)<br>LÄNGE (m/rollen)       | 50                                                                                                                                                                                   | 50                   | 50                                                                                   |
| RENK<br>COLOUR<br>FARBE                                      | Turuncu<br>Orange                                                                                                                                                                    | Mavi<br>Blue<br>Blau | Beyaz<br>White<br>Weiss                                                              |
| MALZEME<br>MATERIAL                                          | Hammaddesi cam elyafı olup, b+ kalitedir.<br>Its raw material is glass fiber and is b+ quality.<br>Sein rohstoff ist glasfaser und ist b+ qualität.                                  |                      |  |
| DETAY<br>DETAIL                                              | Ürünlerin eni 1 metre boyu 50 metredir.<br>The width of the products is 1 meters and 50 meters in length.<br>Die breite der produkte beträgt 1 meter und 50 meter in der länge.      |                      |                                                                                      |
|                                                              | 1 Top = 50 M². 1x1 Ölçüsünde 4*4 Kare Bulunur. (1 Inch 25,4 Mm).<br>1 Roll = 50 M². There Are 4*4 Square in 1x1 Size.<br>1 Rollen = 50 M². Es Gibt 4*4 Quadratische in 1 X 1 Grösse. |                      |                                                                                      |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>NUTZUNGSZWECK          | Binalarda mantolamada ve ses yalıtımı için kullanılır.<br>It is used for heating and sound insulation in buildings.<br>Es wird zur heizung und schalldämmung in gebäuden verwendet.  |                      |                                                                                      |

## DÜZ SİNEK TELLERİ

FIBERGLASS INSET SCREENS

FIBERGLAS INSET SCREEN

| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                              | 60 cm                                                                                                                                                                               | 80 cm | 100 cm | 120 cm | 140 cm                                                                                | 160 cm | 180 cm |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|--------|---------------------------------------------------------------------------------------|--------|--------|
| AĞIRLIK (gram/m²)<br>WEIGHT (grams/m²)<br>GEWICHT (gramm/m²) | 105                                                                                                                                                                                 | 105   | 105    | 105    | 105                                                                                   | 105    | 105    |
| UZUNLUK (m/top)<br>LENGTH (m/roll)<br>LÄNGE (m/rollen)       | 30                                                                                                                                                                                  | 30    | 30     | 30     | 30                                                                                    | 30     | 30     |
| MALZEME<br>MATERIAL                                          | %35 yüksek kaliteli fiberglas ipliği + %65 plastiktir.<br>35% high quality fiberglass yarn + 65% plastic.<br>35 % hochwertiges glasfasergarn + 65 % kunststoff.                     |       |        |        |  |        |        |
| KARE SAYISI<br>NUMBER OF SQUARE<br>ANZAHL DES QUADRATS       | 1x1 ölçüsünde 16*18 kare bulunur. (1 inch 25,4 mm)<br>There is 16*18 square in 1x1 measurement. (1 inch 25.4 mm)<br>Es gibt 16 * 18 quadratische in 1 x 1 messung. (1 zoll 25,4 mm) |       |        |        |                                                                                       |        |        |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



**iş**  
**GÜVENLİĞİ**  
OCCUPATIONAL  
SAFETY

# İŞ ELDİVENLERİ

WORK GLOVES

ARBEITSHANDSCHUHE

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                             | STD350                                                                            | STD1                                                                              | STD2                                                                              | STD2 FLEX                                                                          | STD2 FLEX+                                                                          | STD PRO                                                                             |
|---------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD            |  |  |  |  |  |  |
| DAYANIM SINIFI<br>RESISTANCE CLASS<br>WIDERSTANDSKLASSE | 2111X                                                                             | 2121X                                                                             | 3121X                                                                             | 3121X                                                                              | 3121X                                                                               | 4121X                                                                               |
| DOKUMA<br>WOVEN TYPE<br>GEWEBTER TYP                    | Pamuk<br>Cotton<br>Baumwolle                                                      | Pamuk<br>Cotton<br>Baumwolle                                                      | Pamuk<br>Cotton<br>Baumwolle                                                      | Pamuk<br>Cotton<br>Baumwolle                                                       | Pamuk<br>Cotton<br>Baumwolle                                                        | Pamuk<br>Cotton<br>Baumwolle                                                        |
| KAPLAMA<br>COATING<br>GLASUR                            | 3/4 Nitril<br>3/4 Nitrile<br>3/4 Nitril                                           | 3/4 Nitril<br>3/4 Nitrile<br>3/4 Nitril                                           | 3/4 Nitril<br>3/4 Nitrile<br>3/4 Nitril                                           | 3/4 Nitril<br>3/4 Nitrile<br>3/4 Nitril                                            | Nitril<br>Nitrile<br>Nitril                                                         | 3/4 Nitril<br>3/4 Nitrile<br>3/4 Nitril                                             |
| RENK<br>COLOUR<br>FARBE                                 | Sarı<br>Yellow<br>Gelb                                                            | Sarı<br>Yellow<br>Gelb                                                            | Sarı<br>Yellow<br>Gelb                                                            | Sarı<br>Yellow<br>Gelb                                                             | Sarı<br>Yellow<br>Gelb                                                              | Sarı<br>Yellow<br>Gelb                                                              |
| BEDEN<br>SIZES<br>GRÖSSEN                               | 9-10                                                                              | 9-10                                                                              | 9-10                                                                              | 9-10                                                                               | 9-10                                                                                | 9-10                                                                                |

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                             | STDP3                                                                               | STDP5                                                                               | STDP7                                                                               | STDPU                                                                                | STD PUpro                                                                             | STD ZEBRA                                                                             | STD PL9                                                                               |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD            |  |  |  |  |  |  |  |
| DAYANIM SINIFI<br>RESISTANCE CLASS<br>WIDERSTANDSKLASSE | 2121X                                                                               | 3121X                                                                               | 3131X                                                                               | 3121X                                                                                | 3121X                                                                                 | 3131X                                                                                 | 4131X                                                                                 |
| DOKUMA<br>WOVEN TYPE<br>GEWEBTER TYP                    | Polyester                                                                           | Polyester                                                                           | Polyester                                                                           | Polyester                                                                            | Polyester                                                                             | Polyester                                                                             | Polyester                                                                             |
| KAPLAMA<br>COATING<br>GLASUR                            | Nitril<br>Nitrile<br>Nitril                                                         | Nitril<br>Nitrile<br>Nitril                                                         | Nitril<br>Nitrile<br>Nitril                                                         | Pu                                                                                   | Pu                                                                                    | Nitril<br>Nitrile<br>Nitril                                                           | Nitril<br>Nitrile<br>Nitril                                                           |
| RENK<br>COLOUR<br>FARBE                                 | Sarı - Gri<br>Yellow - Grey<br>Gelb - Grau                                          | Sarı<br>Yellow<br>Gelb                                                              | Sarı<br>Yellow<br>Gelb                                                              | Siyah<br>Black<br>Schwarz                                                            | Siyah<br>Black<br>Schwarz                                                             | Siyah - Kırmızı<br>Black - Red<br>Schwarz - Rot                                       | Siyah - Kırmızı<br>Black - Red<br>Schwarz - Rot                                       |
| BEDEN<br>SIZES<br>GRÖSSEN                               | 9-10                                                                                | 9-10                                                                                | 9-10                                                                                | 7-8-9-10                                                                             | 7-8-9-10                                                                              | 9-10                                                                                  | 9-10                                                                                  |

Değerler milimetre olarak verilmiştir.

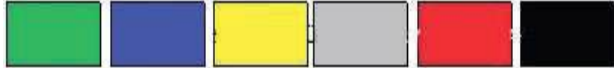
Values are given in millimeters.

Werte sind in millimetern angegeben.

# GÖZLÜKLER

GLASSES

BRILLE

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | KLASİK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CROSS 603                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CROSS 602                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 28,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 23,20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 23,70                                                                               |
| RENK<br>COLOUR<br>FARBE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |
| SERTİFİKASYON<br>CERTIFICATION<br>ZERTIFIZIERUNG                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tse en 166 kapsamında ve ce belgelidir.<br>It is within the scope of tse en 166 and ce certified.<br>Es liegt in den geltungsbereich tse en 166 und ce-zertifiziert.                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |
| KULLANIM AMACI<br><br>Gözleri zararlı ve zehirli maddelerden ve bunların doğuracağı tehlikelerden koruyacak şekilde dizayn edilmektedir. Gözlük genellikle;<br>• Küçük parçalar ve tozlardan,<br>• Talaş ve fırlayan büyük parçalar veya kıvılcımlardan,<br>• Ultraviyole(UV) ve kızılötesi (IR) (ısı ışını) dahil sağlığa zararlı ışınlardan ve göz almadan,<br>• Yüksek ısı püskürtme maddelerinden,<br>• Kimyasal sıçramalar, erimiş metallere,<br>• Zehirli gazlardan, gözleri korumak için kullanılır. | PURPOSE OF USAGE<br><br>It is designed to protect the eyes from harmful and toxic substances and the dangers they may pose. Glasses are usually;<br>• Small parts and dust,<br>• Sawdust and large flying pieces or sparks,<br>• From harmful rays to health, including ultraviolet (UV) and infrared (IR) (heat rays) and without eye protection,<br>• From high-temperature spraying agents,<br>• Chemical splashes, molten metals,<br>• It is used to protect eyes from toxic gases. | NUTZUNGSZWECK<br><br>Es soll die Augen vor schädlichen und giftigen Stoffen und den Gefahren, die sie darstellen können, schützen. Gläser sind normalerweise;<br>• Kleinteile und Staub,<br>• Sägemehl und große herumfliegende Teile oder Funken,<br>• Vor gesundheitsschädlichen Strahlen, einschließlich Ultraviolett (UV) und Infrarot (IR) (Wärmestrahlen) und ohne Augenschutz,<br>• von Hochtemperatur-Spritzmitteln,<br>• Chemikalienspritzer, geschmolzene Metalle,<br>• Es wird verwendet, um die Augen vor giftigen Gasen zu schützen. |                                                                                     |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# SÜET S01 İŞ AYAKKABISI

SAFETY SHOES

SICHERHEITSSCHUHE



| Ürün Özellikleri                                                                |
|---------------------------------------------------------------------------------|
| Poliüretan tek ve çift dansiteli (katmanlı) taban seçeneği.                     |
| Yumuşak İç Taban                                                                |
| Hava Geçirgen Astar                                                             |
| Süet                                                                            |
| Çelik Burunlu                                                                   |
| Product Properties                                                              |
| Polyurethane single and double density (layered) sole choice.                   |
| Soft Insole                                                                     |
| Air Permeable Primer                                                            |
| Suede                                                                           |
| Steel Toe                                                                       |
| Produkt Eigenschaften                                                           |
| Sohlenauswahl aus Polyurethan mit einfacher und doppelter Dichte (geschichtet). |
| Weiche Innensohle                                                               |
| Luftdurchlässige Grundierung                                                    |
| Deri                                                                            |
| Wildleder                                                                       |

| RENK/ COLOUR/ FARBE   | BEDEN/ SIZE/ SCHUHGRÖSSE | STANDARD    |
|-----------------------|--------------------------|-------------|
| SİYAH/ BLACK/ SCHWARZ | EUR 36                   | CE EN 20343 |
| SİYAH/ BLACK/ SCHWARZ | EUR 37                   | CE EN 20344 |
| SİYAH/ BLACK/ SCHWARZ | EUR 38                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 39                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 40                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 41                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 42                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 43                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 44                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 45                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 46                   | CE EN 20345 |

# DERİ S02 İŞ AYAKKABISI

SAFETY BOATS

SICHERHEITSBOOTE



| Ürün Özellikleri                                                                |
|---------------------------------------------------------------------------------|
| Poliüretan tek ve çift dansiteli (katmanlı) taban seçeneği.                     |
| Yumuşak İç Taban                                                                |
| Hava Geçirgen Astar                                                             |
| Deri                                                                            |
| Çelik Burunlu                                                                   |
| Product Properties                                                              |
| Polyurethane single and double density (layered) sole choice.                   |
| Soft Insole                                                                     |
| Air Permeable Primer                                                            |
| Deri                                                                            |
| Steel Toe                                                                       |
| Produkt Eigenschaften                                                           |
| Sohlenauswahl aus Polyurethan mit einfacher und doppelter Dichte (geschichtet). |
| Weiche Innensohle                                                               |
| Luftdurchlässige Grundierung                                                    |
| Deri                                                                            |
| Stahlkappe                                                                      |

| RENK/ COLOUR/ FARBE   | BEDEN/ SIZE/ SCHUHGRÖSSE | STANDARD    |
|-----------------------|--------------------------|-------------|
| SİYAH/ BLACK/ SCHWARZ | EUR 36                   | CE EN 20343 |
| SİYAH/ BLACK/ SCHWARZ | EUR 37                   | CE EN 20344 |
| SİYAH/ BLACK/ SCHWARZ | EUR 38                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 39                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 40                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 41                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 42                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 43                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 44                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 45                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 46                   | CE EN 20345 |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# DERİ S02 KAYNAKÇI İŞ AYAKKABISI

SAFETY SHOES

SICHERHEITSSCHUHE



## Ürün Özellikleri

|                                                             |
|-------------------------------------------------------------|
| Poliüretan tek ve çift dansiteli (katmanlı) taban seçeneği. |
| Yumuşak İç Taban                                            |
| Hava Geçirgen Astar                                         |
| Deri                                                        |
| Çelik Burunlu                                               |

## Product Properties

|                                                               |
|---------------------------------------------------------------|
| Polyurethane single and double density (layered) sole choice. |
| Soft Insole                                                   |
| Air Permeable Primer                                          |
| Deri                                                          |
| Steel Toe                                                     |

## Produkt Eigenschaften

|                                                                                 |
|---------------------------------------------------------------------------------|
| Sohlenauswahl aus Polyurethan mit einfacher und doppelter Dichte (geschichtet). |
| Weiche Innensohle                                                               |
| Luftdurchlässige Grundierung                                                    |
| Deri                                                                            |
| Stahlkappe                                                                      |

| RENK/ COLOUR/ FARBE   | BEDEN/ SIZE/ SCHUHGRÖSSE | STANDARD    |
|-----------------------|--------------------------|-------------|
| SİYAH/ BLACK/ SCHWARZ | EUR 40                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 41                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 42                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 43                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 44                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 45                   | CE EN 20345 |
| SİYAH/ BLACK/ SCHWARZ | EUR 46                   | CE EN 20345 |

# YAĞMURLUK

RAINCOAT

REGENJACKE

|                                                              |                                                                                                                                                                                                                                                               |                                                                      |                                                                                       |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| KALINLIK (mc)<br>THICKNESS (mc)<br>DICKE (mc)                | 25                                                                                                                                                                                                                                                            | 32                                                                   |  |
| RENK<br>COLOUR<br>FARBE                                      | Sarı, Yeşil ve Mavi<br>Yellow, Green and Blue<br>Gelb, Grün und Blau                                                                                                                                                                                          | Sarı, Yeşil ve Mavi<br>Yellow, Green and Blue<br>Gelb, Grün und Blau |                                                                                       |
| ASTAR<br>TECHNICAL DETAILS<br>TECHNISCHE DETAILS             | Astarsız<br>Unlayered<br>Ungeschichtet                                                                                                                                                                                                                        | Polyester<br>Polyester<br>Polyester                                  |                                                                                       |
| MALZEME<br>MATERIAL                                          | PVC                                                                                                                                                                                                                                                           | PVC                                                                  |                                                                                       |
| TEKNİK ÖZELLİKLER<br>TECHNICAL DETAILS<br>TECHNISCHE DETAILS | Suya dayanıklı yapı, kapüşon, çit çit ve fermuar seçeneği,<br>2 ön cep<br><br>Waterproof construction, hoodie, snap and zipper choice,<br>2 front pockets<br><br>Wasserdichte konstruktion, hoodie, druckknopf- und<br>reißverschlussauswahl, 2 vordertaschen |                                                                      |                                                                                       |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# KELEPÇELER VE KİLİTLER

CLAMPS AND  
LOCKS



# STD ASMA KİLİTLER

STD PADLOCKS

STD VORHÄNGESCHLÖSSER



| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                                               | 20mm                                                                                                                                                                 | 25mm | 32mm | 38mm | 50mm | 63mm |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|
| AĞIRLIK<br>WEIGHT<br>GEWICHT                                                  | 32                                                                                                                                                                   | 50   | 93   | 144  | 310  | 540  |
| GÖVDE MALZEMESİ<br>BODY MATERIAL<br>KÖRPERMATERIAL                            | Malzeme çelik, sarılar piring; griler siyah kaplama<br>Material steel, yellows brass; gray black plating<br>Material Stahl, gelbes messing; grauer schwarzer überzug |      |      |      |      |      |
| KANCA MALZEMESİ<br>HOOK MATERIAL<br>HAKENMATERIAL                             | Malzeme çelik, kaplama krom<br>Material steel, plated chrome<br>Material stahl, verchromt                                                                            |      |      |      |      |      |
| İÇ SİLİNDİR MALZEMESİ<br>INSIDE CYLINDER MATERIAL<br>INNERES ZYLINDERMATERIAL | Tamami piring silindir<br>All brass cylinder<br>Alle messingzylinder                                                                                                 |      |      |      |      |      |
| ANAHTAR MALZEMESİ<br>KEY MATERIAL<br>SCHLÜSSELMATERIAL                        | Malzeme çelik, kaplama nikel<br>Material steel, plated nickel<br>Material stahl, nickel beschichtet                                                                  |      |      |      |      |      |
| SIZDIRMAZLIK LASTİÇİ<br>SEALING RUBBER<br>DICHTUNGSGUMMI                      | 20 ve 25mm hariç hepsinde bulunur.<br>Verfügbar für alle ausser 20 und 25 mm.<br>Available on all except 20 and 25mm.                                                |      |      |      |      |      |

| TEKNİK ÖLÇÜLERİ<br>TECHNISCHE ABMESSUNGEN<br>TECHNICAL DIMENSIONS |          | 20mm | 25mm | 32mm | 38mm | 50mm | 63mm |
|-------------------------------------------------------------------|----------|------|------|------|------|------|------|
|                                                                   | <b>A</b> | 21   | 25   | 32   | 38   | 50   | 63   |
|                                                                   | <b>B</b> | 19,5 | 24,5 | 30   | 35   | 43   | 50   |
|                                                                   | <b>C</b> | 11   | 12,5 | 15   | 17   | 23   | 26,5 |
|                                                                   | <b>D</b> | 3,2  | 4,3  | 5,3  | 6,2  | 8,8  | 10,5 |
|                                                                   | <b>E</b> | 10,5 | 12   | 16   | 19,5 | 27   | 32   |
|                                                                   | <b>F</b> | 11,5 | 15   | 19   | 19,5 | 27   | 35   |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STDekko ASMA KİLİTLER

STDekko PADLOCKS

STDekko VORHÄNGESCHLÖSSER



| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                                               | 25mm                                                                                                                               | 32mm | 38mm | 50mm | 63mm |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|
| AĞIRLIK<br>WEIGHT<br>GEWICHT                                                  | 34                                                                                                                                 | 63   | 100  | 215  | 360  |
| GÖVDE MALZEMESİ<br>BODY MATERIAL<br>KÖRPERMATERIAL                            | Malzeme demir, sarı ve siyah kaplama.<br>Material iron, yellow and black plating.<br>Material eisen, gelb und schwarz beschichtet. |      |      |      |      |
| KANCA MALZEMESİ<br>HOOK MATERIAL<br>HAKENMATERIAL                             | Malzeme demir, kaplama krom.<br>Material iron, plated chrome.<br>Material eisen, verchromt.                                        |      |      |      |      |
| İÇ SİLİNDİR MALZEMESİ<br>INSIDE CYLINDER MATERIAL<br>INNERES ZYLINDERMATERIAL | Silindir demir, uç kısmı pirinç.<br>Cylinder iron, end part brass.<br>Zylindereisen, endteil messing.                              |      |      |      |      |
| ANAHTAR MALZEMESİ<br>KEY MATERIAL<br>SCHLÜSSELMATERIAL                        | Malzeme demir, kaplama krom.<br>Material iron, plated chrome.<br>Material eisen, verchromt.                                        |      |      |      |      |
| SIZDIRMAZLIK LASTİÇİ<br>SEALING RUBBER<br>DICHTUNGSGUMMI                      | Hiçbir ölçüde bulunmaz.<br>Not available to any size.<br>Nicht in jeder grösse verfügbar.                                          |      |      |      |      |

| TEKNİK ÖLÇÜLERİ<br>TECHNISCHE ABMESSUNGEN<br>TECHNICAL DIMENSIONS |          | 25mm | 32mm | 38mm | 50mm | 63mm |
|-------------------------------------------------------------------|----------|------|------|------|------|------|
|                                                                   | <b>A</b> | 25   | 32   | 37   | 48   | 61   |
|                                                                   | <b>B</b> | 24   | 28   | 32   | 40   | 49   |
|                                                                   | <b>C</b> | 12   | 13   | 13   | 18   | 20   |
|                                                                   | <b>D</b> | 14   | 17   | 21   | 26   | 32   |
|                                                                   | <b>E</b> | 4    | 4,5  | 5,5  | 7    | 8,5  |
|                                                                   | <b>F</b> | 13   | 16   | 20   | 25   | 31   |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STD UZUN KANCALI ASMA KİLİTLER

STD LONG HOOK PADLOCKS

STD LANGE HAKENSCHLÖSSER



| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                                               | 32mm                                                                                                                                                                    | 38mm | 50mm | 63mm |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|
| AĞIRLIK<br>WEIGHT<br>GEWICHT                                                  | 100                                                                                                                                                                     | 168  | 320  | 540  |
| GÖVDE MALZEMESİ<br>BODY MATERIAL<br>KÖRPERMATERIAL                            | Malzeme çelik, sarılar piring; griler siyah kaplama.<br>Material steel, yellows brass; gray black plating.<br>Material stahl, gelbes messing; grauer schwarzer überzug. |      |      |      |
| KANCA MALZEMESİ<br>HOOK MATERIAL<br>HAKENMATERIAL                             | Malzeme çelik, kaplama krom.<br>Material steel, plated chrome.<br>Material stahl, verchromt.                                                                            |      |      |      |
| İÇ SİLİNDİR MALZEMESİ<br>INSIDE CYLINDER MATERIAL<br>INNERES ZYLINDERMATERIAL | Silindir çelik, uç kısmı piring.<br>Cylinder steel, end brass.<br>Zylinder stahl, ende messing.                                                                         |      |      |      |
| ANAHTAR MALZEMESİ<br>KEY MATERIAL<br>SCHLÜSSELMATERIAL                        | Malzeme çelik, kaplama nikel.<br>Material steel, plated nickel.<br>Material stahl, nickel beschichtet.                                                                  |      |      |      |
| SIZDIRMAZLIK LASTİÇİ<br>SEALING RUBBER<br>DICHTUNGSGUMMI                      | Hepsinde bulunur.<br>Has everything.<br>Hat alles.                                                                                                                      |      |      |      |

| TEKNİK ÖLÇÜLERİ<br>TECHNISCHE ABMESSUNGEN<br>TECHNICAL DIMENSIONS |          | 32mm | 38mm | 50mm | 63mm |
|-------------------------------------------------------------------|----------|------|------|------|------|
|                                                                   | <b>A</b> | 32   | 38   | 50   | 63   |
|                                                                   | <b>B</b> | 30   | 35   | 42   | 52   |
|                                                                   | <b>C</b> | 15   | 17   | 21,5 | 25   |
|                                                                   | <b>D</b> | 5,1  | 6,1  | 8    | 9,8  |
|                                                                   | <b>E</b> | 16   | 19,5 | 27   | 32   |
|                                                                   | <b>F</b> | 48   | 60   | 64   | 65   |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STD KAYAR MİLLİ ASMA KİLİTLER

STD SLIDING SHAFT PADLOCKS

STD SCHIEBEWELLEN-VORSCHLÖSSER



| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                                               | 70mm                                                                                                                                                               | 80mm | 90mm |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| AĞIRLIK<br>WEIGHT<br>GEWICHT                                                  | 427                                                                                                                                                                | 481  | 534  |
| GÖVDE MALZEMESİ<br>BODY MATERIAL<br>KÖRPERMATERIAL                            | Malzeme çelik, sarılar piring; griler nikel kaplama.<br>Material stahl, gelbes messing; graue vernickelung.<br>Material steel, yellows brass; gray nickel plating. |      |      |
| KANCA MALZEMESİ<br>HOOK MATERIAL<br>HAKENMATERIAL                             | Malzeme çelik, kaplama krom.<br>Material steel, plated chrome.<br>Material stahl, verchromt.                                                                       |      |      |
| İÇ SİLİNDİR MALZEMESİ<br>INSIDE CYLINDER MATERIAL<br>INNERES ZYLINDERMATERIAL | Tamamı piring silindir.<br>All brass cylinder.<br>Alle messingzylinder.                                                                                            |      |      |
| ANAHTAR MALZEMESİ<br>KEY MATERIAL<br>SCHLÜSSELMATERIAL                        | Malzeme çelik, kaplama nikel.<br>Material steel, plated nickel.<br>Material stahl, nickel beschichtet.                                                             |      |      |

| TEKNİK ÖLÇÜLERİ<br>TECHNISCHE ABMESSUNGEN<br>TECHNICAL DIMENSIONS |   | 70mm | 80mm | 90mm |
|-------------------------------------------------------------------|---|------|------|------|
|                                                                   | A | 70   | 80   | 90   |
|                                                                   | B | 55   | 55   | 55   |
|                                                                   | C | 20   | 20   | 20   |
|                                                                   | D | 11   | 11   | 11   |
|                                                                   | E | 24   | 30   | 30   |
|                                                                   | F | 32   | 32   | 32   |

Değerler milimetre olarak verilmiştir.

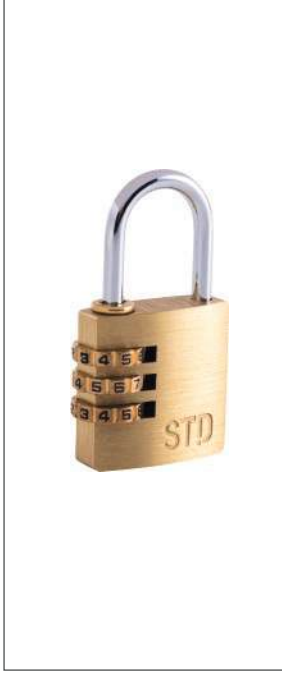
Values are given in millimeters.

Werte sind in millimetern angegeben.

# STD ŞİFRELİ KİLİTLER

STD ENCRYPTED LOCKS

VERSCHLÜSSELTE STD-SPERREN



| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                          | 20mm                                                 | 28mm                                                 | 38mm                                                 |
|----------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| AĞIRLIK<br>WEIGHT<br>GEWICHT                             | 50                                                   | 117                                                  | 202                                                  |
| GÖVDE MALZEMESİ<br>BODY MATERIAL<br>KÖRPERMATERIAL       | Prinç gövde<br>Brass body<br>Messingkörper           | Prinç gövde<br>Brass body<br>Messingkörper           | Prinç gövde<br>Brass body<br>Messingkörper           |
| KANCA MALZEMESİ<br>HOOK MATERIAL<br>HAKENMATERIAL        | Çelik kanca<br>Steel hook<br>Stahlhaken              | Çelik kanca<br>Steel hook<br>Stahlhaken              | Çelik kanca<br>Steel hook<br>Stahlhaken              |
| BASAMAK SAYISI<br>NUMBER OF STEPS<br>ANZAHL DER SCHRITTE | 3 kombinasyonlu<br>3 combinations<br>3 kombinationen | 3 kombinasyonlu<br>3 combinations<br>3 kombinationen | 4 kombinasyonlu<br>4 combinations<br>4 kombinationen |

| TEKNİK ÖLÇÜLERİ<br>TECHNISCHE ABMESSUNGEN<br>TECHNICAL DIMENSIONS |          | 20mm | 28mm | 38mm |
|-------------------------------------------------------------------|----------|------|------|------|
|                                                                   | <b>A</b> | 21   | 30   | 40   |
|                                                                   | <b>B</b> | 30   | 31   | 39,5 |
|                                                                   | <b>C</b> | 10   | 11   | 12   |
|                                                                   | <b>D</b> | 3    | 4    | 5    |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

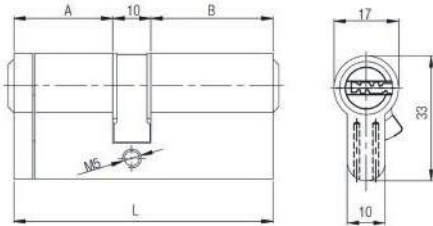
Werte sind in millimetern angegeben.

# BARELLER

CYLINDERS

ZYLINDERE

| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                     | 63mm  | 83mm | 90mm | 100mm |
|-----------------------------------------------------|-------|------|------|-------|
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm) | 172   | 190  | 220  | 250   |
| MALZEME<br>MATERIAL<br>MATERIAL                     | Zamak |      |      |       |

| TEKNİK ÇİZİM                                                                       | TECHNICAL DRAWING | TECHNISCHE ZEICHNUNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
|  |                   | <table border="1"><tr><td>A</td><td>26</td><td>26</td><td>26</td><td>30</td><td>26</td><td>30</td><td>33</td><td>30</td><td>35</td><td>33</td><td>35</td><td>35</td><td>40</td><td>40</td><td>45</td></tr><tr><td>B</td><td>26</td><td>30</td><td>32</td><td>30</td><td>35</td><td>35</td><td>33</td><td>40</td><td>35</td><td>40</td><td>40</td><td>45</td><td>40</td><td>45</td><td>45</td></tr><tr><td>L</td><td>62</td><td>66</td><td>68</td><td>70</td><td>71</td><td>75</td><td>76</td><td>80</td><td>80</td><td>83</td><td>85</td><td>90</td><td>90</td><td>95</td><td>100</td></tr></table><br> | A  | 26 | 26 | 26 | 30 | 26 | 30 | 33 | 30 | 35 | 33 | 35 | 35  | 40 | 40 | 45 | B | 26 | 30 | 32 | 30 | 35 | 35 | 33 | 40 | 35 | 40 | 40 | 45 | 40 | 45 | 45 | L | 62 | 66 | 68 | 70 | 71 | 75 | 76 | 80 | 80 | 83 | 85 | 90 | 90 | 95 | 100 |
| A                                                                                  | 26                | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 26 | 30 | 26 | 30 | 33 | 30 | 35 | 33 | 35 | 35 | 40 | 40 | 45  |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| B                                                                                  | 26                | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 32 | 30 | 35 | 35 | 33 | 40 | 35 | 40 | 40 | 45 | 40 | 45 | 45  |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| L                                                                                  | 62                | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 68 | 70 | 71 | 75 | 76 | 80 | 80 | 83 | 85 | 90 | 90 | 95 | 100 |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |

# KELEPÇELER

CLAMPS

KLEMMEN

| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE | BANT GENİŞLİĞİ<br>BAND WIDTH<br>BANDBREITE | ÜRÜN TİPİ<br>PRODUCT TYPE<br>PRODUKTART | HAM MADDE<br>RAW MATERIALS<br>ROHES MATERIAL | ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD                                          |
|---------------------------------|--------------------------------------------|-----------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------|
| 8*13                            | 8mm                                        | A                                       | DKP                                          |  |
| 10*16                           | 8mm                                        | A                                       | DKP                                          |                                                                                       |
| 13*19                           | 8mm                                        | A                                       | DKP                                          |                                                                                       |
| 16*23                           | 8mm                                        | A                                       | DKP                                          |                                                                                       |
| 18*25                           | 8mm                                        | A                                       | DKP                                          |                                                                                       |
| 19*26                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 20*30                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 22*36                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 25*42                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 28*48                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 32*51                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 38*58                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 44*64                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 51*72                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 57*76                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 65*82                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 76*92                           | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 85*103                          | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 92*110                          | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 105*121                         | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 115*135                         | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 130*146                         | 13mm                                       | B                                       | DKP                                          |                                                                                       |
| 146*164                         | 13mm                                       | B                                       | DKP                                          |                                                                                       |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



# MAKİNELER

## MACHINERY

# STANLEY JENERATÖR

GENERATOR

GENERATOR



|                     |                                         |
|---------------------|-----------------------------------------|
| Model Adı           | SG3100B                                 |
| Ses Seviyesi (dB)   | 96dB(A)                                 |
| Frekans             | 50 Hz                                   |
| Motor Gücü          | 7Hp                                     |
| Motor Tipi          | Tek Silindir, 4 Zamanlı, Hava Soğutmalı |
| Genişlik            | 44,5 cm                                 |
| Uzunluk (cm)        | 65 cm                                   |
| Yükseklik           | 44,5 cm                                 |
| Net Ağırlık         | 40 kg                                   |
| Maksimum Çıkış Gücü | 2,9 kW                                  |
| Sürekli Çıkış Gücü  | 2,6 kW                                  |
| Yakıt Tipi          | Kurşunsuz Benzin                        |
| Yakıt Kapasitesi    | 15 L                                    |
| Yakıt Tüketimi      | 1253 g/h                                |
| Yağ Kapasitesi      | 0,6 L                                   |
| Çalıştırma Şekli    | İpli                                    |

|                                      |                                                |
|--------------------------------------|------------------------------------------------|
| Model Name                           | SG3100B                                        |
| Generator type                       | Synchronous                                    |
| Protection type                      | IP 23M                                         |
| Continuous rated power Prated (SI)   | 2.6 kW                                         |
| Maximum power Pmax                   | 2.9 kW                                         |
| Rated voltage U <sub>rated</sub>     | 2 x 230 V~                                     |
| Rated current I <sub>rated</sub>     | 11.3 A                                         |
| Frequency Frated                     | 50 Hz                                          |
| Drive engine design                  | Single-cylinder forced air-cooled 4-stroke OHV |
| Displacement                         | 212 cm <sup>3</sup>                            |
| Fuel type                            | Normal unleaded petrol                         |
| Tank capacity                        | 15 L                                           |
| Engine oil                           | Approx. 0.6 l (15W40/<0 °C: 5W30)              |
| Consumption at 2/3 load              | 1253 g/h                                       |
| Weight                               | 40 kg                                          |
| Guaranteed sound power level LWA     | 96 dB(A)                                       |
| Power class:                         | G1                                             |
| Max. Temperature                     | 40 °C                                          |
| Max. altitude (above mean sea level) | 1000 m                                         |
| Spark plug                           | LDF7RTC                                        |
| Box dimensions (LxWxH)               | 65,00 x 44,50 x 44,5 cm                        |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STANLEY JENERATÖR

GENERATOR

GENERATOR



|                     |                                         |
|---------------------|-----------------------------------------|
| Model Adı           | SG5600B                                 |
| Ses Seviyesi (dB)   | 97dB(A)                                 |
| Frekans             | 50 Hz                                   |
| Motor Gücü          | 18Hp                                    |
| Motor Tipi          | Tek Silindir, 4 Zamanlı, Hava Soğutmalı |
| Genişlik            | 53 cm                                   |
| Uzunluk (cm)        | 74 cm                                   |
| Yükseklik           | 55 cm                                   |
| Net Ağırlık         | 82,5 kg                                 |
| Maksimum Çıkış Gücü | 3,3 kW (230V~/)/5,5 kW (400V~)          |
| Sürekli Çıkış Gücü  | 3 kW (230V~/)/5 kW (400V~)              |
| Yakıt Tipi          | Kurşunsuz Benzin                        |
| Yakıt Kapasitesi    | 25 L                                    |
| Yakıt Tüketimi      | 2964 g/h                                |
| Yağ Kapasitesi      | 1.1 L                                   |
| Çalıştırma Şekli    | Elektirik Marşlı                        |

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Model Name                         | SG5600B                                        |
| Generator type                     | Synchronous                                    |
| Protection type                    | IP 23M                                         |
| Continuous rated power Prated (S1) | 3 kW (230V~/)/5 kW (400V~)                     |
| Maximum power Pmax                 | 3.3 kW (230V~/)/5.5 kW (400V~)                 |
| Rated voltage U <sub>rated</sub>   | 2 x 230 V~ 1 x 400V 3~                         |
| Frequency Frated                   | 50 Hz                                          |
| Drive engine design                | Single-cylinder forced air-cooled 4-stroke OHV |
| Displacement                       | 458 cm <sup>3</sup>                            |
| Fuel type                          | Normal unleaded petrol                         |
| Tank capacity                      | 25 L                                           |
| Engine oil                         | Appox.1.1 L (15W40/<0 oC: 5W30)                |
| Net weight                         | 82.5 kg                                        |
| Guaranteed sound power level LWA   | 97 dB(A)                                       |
| Power class                        | G1                                             |
| Max. Temperature                   | 40 °C                                          |
| Spark plug                         | LD F7RTC                                       |
| Box dimensions (LxWxH)             | 74,00 x 53,00 x 55 cm                          |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STANLEY JENERATÖR

GENERATOR

GENERATOR



|                     |                                         |
|---------------------|-----------------------------------------|
| Model Adı           | SG7500B                                 |
| Ses Seviyesi (dB)   | 97dB(A)                                 |
| Frekans             | 50 Hz                                   |
| Motor Gücü          | 18Hp                                    |
| Motor Tipi          | Tek Silindir, 4 Zamanlı, Hava Soğutmalı |
| Genişlik            | 53 cm                                   |
| Uzunluk (cm)        | 74 cm                                   |
| Yükseklik           | 55 cm                                   |
| Net Ağırlık         | 88 kg                                   |
| Maksimum Çıkış Gücü | 3,3 kW (230 V~)/ 7,5 kW (400 V 3~)      |
| Sürekli Çıkış Gücü  | 3,0 kW (230 V~)/ 7,0 kW (400 V 3~)      |
| Yakıt Tipi          | Kurşunsuz Benzin                        |
| Yakıt Kapasitesi    | 25 L                                    |
| Yakıt Tüketimi      | 3432g/h                                 |
| Yağ Kapasitesi      | 1.1 L                                   |
| Çalıştırma Şekli    | Elektirik Marşlı                        |

|                                     |                                                |
|-------------------------------------|------------------------------------------------|
| Model Name                          | SG7500B                                        |
| Generator type:                     | Synchronous                                    |
| Protection type:                    | IP 23M                                         |
| Continuous rated power Prated (S1): | 3.0 kW (230 V~)/ 7.0 kW (400 V 3~)             |
| Maximum power Pmax:                 | 3.3 kW (230 V~)/ 7.5 kW (400 V 3~)             |
| Rated voltage Urated:               | 2 x 230 V~ 1 x 400V 3~                         |
| Frequency Frated:                   | 50 Hz                                          |
| Drive engine design:                | Single-cylinder forced air-cooled 4-stroke OHV |
| Displacement:                       | 458 cm <sup>3</sup>                            |
| Fuel type: N                        | Normal unleaded petrol                         |
| Tank capacity:                      | 25 L                                           |
| Engine oil:                         | Approx.1.1 l (15W40/<0 oC: 5W30)               |
| Gross weight:                       | 96.5 Kg                                        |
| Net weight:                         | 88 Kg                                          |
| Guaranteed sound power level LWA:   | 97 dB(A)                                       |
| Power class:                        | G1                                             |
| Max. temperature:                   | 40 °C                                          |
| Spark plug:                         | LD F7RTC                                       |
| Box dimensions (LxWxH):             | 74,00 x 53,00 x 55 cm                          |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# MANYETİK KALIP AYIRICI

MAGNETIC VISE

MAGNETISCHER SCHRAUBSTOCK

| MODEL<br>MODEL<br>MODELL                                | UZUNLUK<br>LENGTH<br>LÄNGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | GENİŞLİK (mm)<br>WIDTH (mm)<br>BREITE (mm) | YÜKSEKLİK<br>(mm)<br>HEIGHT<br>(mm)<br>HÖHE<br>(mm) | ET AĞIRLI<br>(kg)<br>NET WEIGHT<br>(kg)<br>NETTOGEWICHT<br>(kg) | SIKIŞTIRMA<br>KUVVETİ<br>COMPRESSION<br>FORCE<br>KOMPRESSION<br>SKRAFT | MİNİMUM İ PARÇASI<br>KALINLIĞI<br>MINIMUM WORKPIECE<br>THICKNESS<br>MINDESTENS ICH TEIL<br>DICKE |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| STD HX-120                                              | 193                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 108                                        | 112                                                 | 17                                                              | 1500KGF±%5                                                             | 15MM                                                                                             |
| STD HX-210                                              | 224                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 133                                        | 122                                                 | 29                                                              | 2000KGF±%5                                                             | 25MM                                                                                             |
| AKSESUARLAR<br>ACCESSORIES<br>VERPACKUNGSDetail         | 1 adet sıkma kolu, 1 adet 25cmlik bağlantı kolu, 3 lokma, 1 adet allen anahtar<br><br>1 piece tightening handle, 1 piece 25cm connecting bar, 3 pieces wrench sockets,<br>1 piece allen key<br><br>1 Stück Spanngriff, 1 Stück 25-cm-Verbindungsstange,<br>3 Stück Schraubenschlüssel, 1 Stück Inbusschlüssel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |                                                     |                                                                 |                                                                        |               |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>ZWECK DER NUTZUNG | Manyetik kalıp ayırıcı, işleme operasyonları sırasında iş parçalarını güvenli bir şekilde yerinde tutmak için kullanılan çok yönlü ve etkili bir araçtır. Manyetik kalıp ayırıcı, iş parçasının hızlı ve kolay bir şekilde sıkıştırılmasına olanak tanır ve CNC tezgahlarındaki işleme operasyonları için beş taraftan erişime olanak sağlar.<br><br>A magnetic vise is a versatile and effective tool used to hold workpieces securely in place during machining operations. The magnetic vise allows quick and easy clamping of the workpiece and allows access from five sides for machining operations on CNC machines.<br><br>Ein magnetschraubstock ist ein vielseitiges und effektives werkzeug, mit dem werkstücke bei bearbeitungsvorgängen sicher an ort und stelle gehalten werden. Der magnetschraubstock ermöglicht ein schnelles und einfaches spannen des werkstücks und ermöglicht den zugriff von fünf seiten für bearbeitungsvorgänge auf CNC-Maschinen. |                                            |                                                     |                                                                 |                                                                        |                                                                                                  |

## STD ZIMBA TABANCASI

STAPLE GUN

TAPFERKLAMMERS

|                                                                             |                      |                                                                                       |
|-----------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|
| MODEL NUMARASI<br>MODEL NUMBER<br>MODELLNUMMER                              | STD 8016B            |  |
| ZIMBA ÇAKMA KAPASİTESİ<br>STAPLE DRILLING CAPACITY<br>KLAMMERBOHRLEISTUNG   | 6-16 mm              |                                                                                       |
| ZIMBA HAZNESİ (ADET)<br>STAPLE CAPACITY (PIECE)<br>KLAMMERKAPAZİTAT (STÜCK) | 140                  |                                                                                       |
| ÇALIŞMA BASINCI<br>WORKING PRESSURE<br>ARBEITSDRUCK                         | 5-7 bar (60-110 PSI) |                                                                                       |
| AĞIRLIK<br>WEIGHT<br>GEWICHT                                                | 0,9                  |                                                                                       |
| KOLİ ADETİ<br>QUANTITY PER CARTON<br>MENGE PRO KARTON                       | 10                   |                                                                                       |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STANLEY KAYNAK MAKİNESİ

WELDING MACHINE

SCHWEISSGERÄT

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |                                                                                                                                                                                                                            |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL NUMARASI<br>MODEL NUMBER<br>MODELLNUMMER                    | WD160IC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ELEKTROD ÇAPI<br>ELECTRODE DIAMETER<br>ELEKTRODEN-DURCHMESSER      | 1,6 -4,0mm                                                                                                                                                                                                                 |
| GİRİŞ VOLTAJİ<br>INPUT VOLTAGE<br>EINGANGSSPANNUNG                | 230V / 50-60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | KORUMA SINIFI<br>PROTECTION CLASS<br>SCHUTZKLASSE                  | IP21S                                                                                                                                                                                                                      |
| GÜÇ<br>POWER<br>ENERGIE                                           | 6,9 Kva / 5,2 KW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | KORDON UZUNLUĞU<br>CORD LENGTH<br>SCHNURLÄNGE                      | 1,5MT                                                                                                                                                                                                                      |
| BOŞTAKİ GERİLİM<br>LOAD VOLTAGE<br>LASTSPANNUNG                   | 60V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | KUTU ÖLÇÜLERİ(mm)<br>BOX DIMENSIONS (mm)<br>KASTENABMESSUNGEN (mm) | 375X160X310                                                                                                                                                                                                                |
| AKIM ARALIĞI<br>CURRENT RANGE<br>AKTUELLE BEREICH                 | 10 - 60A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | KUTU İÇİ AKSESUARLAR<br>BOX ACCESSORIES<br>KASTENZUBEHÖR           | Kaynak maskesi, Kaynak fırçası,<br>Elektrot pensi ve Topraklama pensi<br><br>Welding mask, Welding brush,<br>Electrode clamp and Grounding clamp<br><br>Schweißmaske, Schweißbürste,<br>Elektrodenklemme und Erdungsklemme |
| ÇALIŞMA VERİMLİLİĞİ<br>OPERATIONAL EFFICIENCY<br>ARBEITSEFFIZIENZ | 20/160A 160A@60%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |                                                                                                                                                                                                                            |
| DETAY<br>DETAIL<br>DETAIL                                         | Motor bobin sargısı yoktur, elektronik kart sistemi ile çalışmaktadır. Makine içinde küçük bakır sargılı kondansatörler vardır. IGBT (İzole edilmiş kapılı, iki kutuplu transistör) MMA invertör teknolojisine sahiptir. Turbo fanlı sağlam sac gövdeden oluşmaktadır. Hafif, kompakt, düşük tüketime sahip ve güvenilirdir.<br><br>There is no motor coil winding, it works with the electronic card system. There are small copper-wound capacitors inside the machine. IGBT (Insulated gate, bipolar transistor) has MMA inverter technology. It consists of a solid sheet metal body with a turbo fan. It is light, compact, low consumption and reliable.<br><br>Es gibt keine Motorspulenwicklung, es funktioniert mit dem elektronischen Kartensystem. In der Maschine befinden sich kleine kupfergewickelte Kondensatoren. IGBT (Insulated Gate, Bipolar Transistor) verfügt über MMA-Wechselrichtertechnologie. Er besteht aus einem massiven Blechkörper mit Turbogebläse. Es ist leicht, kompakt, verbrauchsarm und zuverlässig. |                                                                    |                                                                                                                                                                                                                            |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STANLEY KAYNAK MAKİNESİ

WELDING MACHINE

SCHWEISSGERÄT

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                    |                                                                                                                                                                                                                            |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL NUMARASI<br>MODEL NUMBER<br>MODELLNUMMER                    | WD200IC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ELEKTROD ÇAPI<br>ELECTRODE DIAMETER<br>ELEKTRODEN-DURCHMESSER      | 1,6 -5,0mm                                                                                                                                                                                                                 |
| GİRİŞ VOLTAJİ<br>INPUT VOLTAGE<br>EINGANGSSPANNUNG                | 230V / 50-60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | KORUMA SINIFI<br>PROTECTION CLASS<br>SCHUTZKLASSE                  | IP21S                                                                                                                                                                                                                      |
| GÜÇ<br>POWER<br>ENERGIE                                           | 9 Kva / 7 KW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | KORDON UZUNLUĞU<br>CORD LENGTH<br>SCHNURLÄNGE                      | 1,5MT                                                                                                                                                                                                                      |
| BOŞTAKİ GERİLİM<br>LOAD VOLTAGE<br>LASTSPANNUNG                   | 65V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | KUTU ÖLÇÜLERİ(mm)<br>BOX DIMENSIONS (mm)<br>KASTENABMESSUNGEN (mm) | 375X160X310                                                                                                                                                                                                                |
| AKIM ARALIĞI<br>CURRENT RANGE<br>AKTUELLE BEREICH                 | 15 - 200A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | KUTU İÇİ AKSESUARLAR<br>BOX ACCESSORIES<br>KASTENZUBEHÖR           | Kaynak maskesi, Kaynak fırçası,<br>Elektrot pensi ve Topraklama pensi<br><br>Welding mask, Welding brush,<br>Electrode clamp and Grounding clamp<br><br>Schweißmaske, Schweißbürste,<br>Elektrodenklemme und Erdungsklemme |
| ÇALIŞMA VERİMLİLİĞİ<br>OPERATIONAL EFFICIENCY<br>ARBEITSEFFIZIENZ | 20/200A 200A@60%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |                                                                                                                                                                                                                            |
| DETAY<br>DETAIL<br>DETAIL                                         | Motor bobin sargısı yoktur, elektronik kart sistemi ile çalışmaktadır. Makine içinde küçük bakır sargılı kondansatörler vardır. IGBT (izole edilmiş kapılı, iki kutuplu transistör) MMA invertör teknolojisine sahiptir. Turbo fanlı sağlam sac gövdeden oluşmaktadır. Hafif, kompakt, düşük tüketime sahip ve güvenilirdir. LED termal koruma göstergesi mevcuttur.<br><br>There is no motor coil winding, it works with the electronic card system. There are small copper-wound capacitors inside the machine. IGBT (Insulated gate, bipolar transistor) has MMA inverter technology. It consists of a solid sheet metal body with a turbo fan. It is light, compact, low consumption and reliable. There is an LED thermal protection indicator.<br><br>Es gibt keine Motorspulenwicklung, es funktioniert mit dem elektronischen Kartensystem. In der Maschine befinden sich kleine kupfergewickelte Kondensatoren. IGBT (Insulated Gate, Bipolar Transistor) verfügt über MMA-Wechselrichtertechnologie. Er besteht aus einem massiven Blechkörper mit Turbogebläse. Es ist leicht, kompakt, verbrauchsarm und zuverlässig. Es gibt eine LED-Thermoschutzanzeige. |                                                                    |                                                                                                                                                                                                                            |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

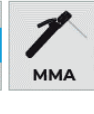
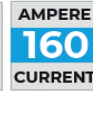
Werte sind in millimetern angegeben.

# KAYNAK MAKİNESİ

WELDING MACHINE

SCHWEISSGERÄT

|                                                                   |                  |                                                                    |                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------|------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL NUMARASI<br>MODEL NUMBER<br>MODELLNUMMER                    | MICRO 170i       | ELEKTROD ÇAPI<br>ELECTRODE DIAMETER<br>ELEKTRODEN-DURCHMESSER      | 1,6 -4,0mm                                                                                                                                                                                                                       |
| GİRİŞ VOLTAJİ<br>INPUT VOLTAGE<br>EINGANGSSPANNUNG                | 230V / 50-60Hz   | KORUMA SINIFI<br>PROTECTION CLASS<br>SCHUTZKLASSE                  | IP21S                                                                                                                                                                                                                            |
| GÜÇ<br>POWER<br>ENERGIE                                           | 6,8 Kva / 5,2 KW | KUTU AĞIRLIĞI<br>BOX WEIGHT<br>KARTONSCHACHTEL GEWICHT             | 5,2KG                                                                                                                                                                                                                            |
| BOŞTAKİ GERİLİM<br>LOAD VOLTAGE<br>LASTSPANNUNG                   | 82V              | KUTU ÖLÇÜLERİ(mm)<br>BOX DIMENSIONS (mm)<br>KASTENABMESSUNGEN (mm) | 170X300X380                                                                                                                                                                                                                      |
| AKIM ARALIĞI<br>CURRENT RANGE<br>AKTUELLE BEREICH                 | 15 -160A         | KUTU İÇİ AKSESUARLAR<br>BOX ACCESSORIES<br>KASTENZUBEHÖR           | Kaynak maskesi, Kaynak fırçası,<br>Elektrot pensi ve Topraklama pensi<br><br>Welding mask, Welding brush,<br>Electrode clamp and Grounding<br>clamp<br><br>Schweißmaske, Schweißbürste,<br>Elektrodenklemme und<br>Erdungsklemme |
| ÇALIŞMA VERİMLİLİĞİ<br>OPERATIONAL EFFICIENCY<br>ARBEITSEFFIZIENZ | 15/160A 160A@45% |                                                                    |                                                                                                                                                                                                                                  |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# KAYNAK MAKİNESİ

WELDING MACHINE

SCHWEISSGERÄT

|                                                                   |                  |                                                                    |                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------|------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL NUMARASI<br>MODEL NUMBER<br>MODELLNUMMER                    | MICRO 200        | ELEKTROD ÇAPI<br>ELECTRODE DIAMETER<br>ELEKTRODEN-DURCHMESSER      | 1,6 -5,0mm                                                                                                                                                                                                                       |
| GİRİŞ VOLTAJİ<br>INPUT VOLTAGE<br>EINGANGSSPANNUNG                | 230V / 50-60Hz   | KORUMA SINIFI<br>PROTECTION CLASS<br>SCHUTZKLASSE                  | IP21S                                                                                                                                                                                                                            |
| GÜÇ<br>POWER<br>ENERGIE                                           | 8,7 Kva / 6,8 KW | KUTU AĞIRLIĞI<br>BOX WEIGHT<br>KARTONSCHACHTEL GEWICHT             | 6,0KG                                                                                                                                                                                                                            |
| BOŞTAKİ GERİLİM<br>LOAD VOLTAGE<br>LASTSPANNUNG                   | 71V              | KUTU ÖLÇÜLERİ(mm)<br>BOX DIMENSIONS (mm)<br>KASTENABMESSUNGEN (mm) | 170X300X380                                                                                                                                                                                                                      |
| AKIM ARALIĞI<br>CURRENT RANGE<br>AKTUELLE BEREICH                 | 15 - 200A        | KUTU İÇİ AKSESUARLAR<br>BOX ACCESSORIES<br>KASTENZUBEHÖR           | Kaynak maskesi, Kaynak fırçası,<br>Elektrot pensi ve Topraklama pensi<br><br>Welding mask, Welding brush,<br>Electrode clamp and Grounding<br>clamp<br><br>Schweißmaske, Schweißbürste,<br>Elektrodenklemme und<br>Erdungsklemme |
| ÇALIŞMA VERİMLİLİĞİ<br>OPERATIONAL EFFICIENCY<br>ARBEITSEFFIZIENZ | 20/200A 200A@45% |                                                                    |                                                                                                                                                                                                                                  |



13,0 kVA



# KAYNAK MAKİNESİ

WELDING MACHINE

SCHWEISSGERÄT

|                                                                   |                  |                                                                    |                                                                                                                                                               |
|-------------------------------------------------------------------|------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL NUMARASI<br>MODEL NUMBER<br>MODELLNUMMER                    | EASYMIG 100      | ELEKTROD ÇAPI<br>ELECTRODE DIAMETER<br>ELEKTRODEN-DURCHMESSER      | 20/100A 100A@60%                                                                                                                                              |
| GİRİŞ VOLTAJI<br>INPUT VOLTAGE<br>EINGANGSSPANNUNG                | 230V / 50-60Hz   | KUTU AĞIRLIĞI<br>BOX WEIGHT<br>KARTONSCHACHTEL GEWICHT             | 7,4KG                                                                                                                                                         |
| GÜÇ<br>POWER<br>ENERGIE                                           | 3,2 Kva / 2,4 KW | KUTU ÖLÇÜLERİ(mm)<br>BOX DIMENSIONS (mm)<br>KASTENABMESSUNGEN (mm) | 170X300X380                                                                                                                                                   |
| BOŞTAKİ GERİLİM<br>LOAD VOLTAGE<br>LASTSPANNUNG                   | 22V              | KUTU İÇİ AKSESUARLAR<br>BOX ACCESSORIES<br>KASTENZUBEHÖR           | Kaynak maskesi, Tel Makarası ve<br>MIG Torç Kiti<br><br>Welding Helmet, Wire Spool and<br>MIG Torch Kit<br><br>Schweißhelm, Drahtspule und<br>MIG-Brenner-Set |
| AKIM ARALIĞI<br>CURRENT RANGE<br>AKTUELLE BEREICH                 | 15 - 200A        |                                                                    |                                                                                                                                                               |
| ÇALIŞMA VERİMLİLİĞİ<br>OPERATIONAL EFFICIENCY<br>ARBEITSEFFIZIENZ | 15 -100A         |                                                                    |                                                                                                                                                               |



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



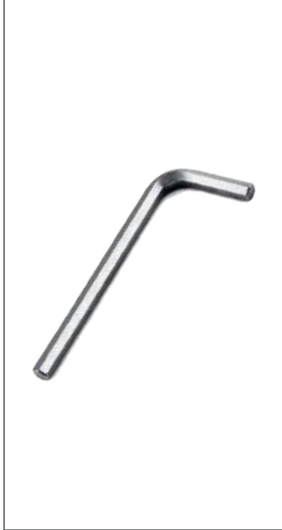
# **MANUEL EL ALETLERİ**

MANUAL  
HAND TOOLS

# ALLEN ANAHTARLARI

ALLEN KEYS

INBUSSCHLÜSSELE



| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                                                                                                                                                                                                                                                                                                                                                      | 1,5 MM                                                | 2 MM | 2,5 MM                             | 3 MM | 4 MM | 5 MM | 6 MM | 8 MM |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------|------------------------------------|------|------|------|------|------|
| MALZEME<br>MATERIAL<br>MATERIAL                                                                                                                                                                                                                                                                                                                                                      | Otomat Çeliği<br>Cutting Steel<br>Schneiden Von Stahl |      | KULLANIM<br>USAGE<br>NUTZUNGSZWECK |      |      |      |      |      |
| Altıgen profili olan ve içeri gömük vidaları, imbus başlı civataları sökmeye yarayan anahtar çeşididir.<br>It is a type of wrench that has a hexagonal profile and is used to remove recessed screws and imbus head bolts.<br>Es handelt sich um eine Art Schraubenschlüssel mit Sechskantprofil, der zum Entfernen von Kreuzschlitzschrauben und Imbuskopfschrauben verwendet wird. |                                                       |      |                                    |      |      |      |      |      |

## BİTS UÇLAR

BITS INSERTS

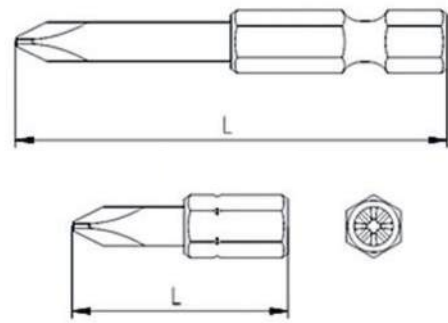
BITS-EINSÄTZE

| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE | 25mm                                                    | 50mm                                                    | 75mm                                                    | 100mm                                                   | 150mm                                                   | T 30X50                                                 | T 30X75                                                 | T 30X100                                                |
|---------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| ÇEŞİTLERİ<br>TYPES<br>TYPEN     | PZ, PH                                                  | PZ, PH                                                  | PZ, PH                                                  | PZ, PH                                                  | PZ, PH                                                  | TORX                                                    | TORX                                                    | TORX                                                    |
| MALZEME<br>MATERIAL<br>MATERIAL | Crv<br>Manyetik<br>Crv<br>Magnetic<br>Crv<br>Magnetisch | Crv<br>Manyetik<br>Crv<br>Magnetic<br>Crv<br>Magnetisch | Crv<br>Manyetik<br>Crv<br>Magnetic<br>Crv<br>Magnetisch | Crv<br>Manyetik<br>Crv<br>Magnetic<br>Crv<br>Magnetisch | Crv<br>Manyetik<br>Crv<br>Magnetic<br>Crv<br>Magnetisch | Crv<br>Manyetik<br>Crv<br>Magnetic<br>Crv<br>Magnetisch | Crv<br>Manyetik<br>Crv<br>Magnetic<br>Crv<br>Magnetisch | Crv<br>Manyetik<br>Crv<br>Magnetic<br>Crv<br>Magnetisch |
| YÜZEY<br>AUFTAUCHEN<br>SURFACE  | Kumlanmış<br>Blasted<br>Gesprengt                       | Kumlanmış<br>Blasted<br>Gesprengt                       | Kumlanmış<br>Blasted<br>Gesprengt                       | Kumlanmış<br>Blasted<br>Gesprengt                       | Kumlanmış<br>Blasted<br>Gesprengt                       | Kumlanmış<br>Blasted<br>Gesprengt                       | Kumlanmış<br>Blasted<br>Gesprengt                       | Kumlanmış<br>Blasted<br>Gesprengt                       |

TEKNİK ÖLÇÜLERİ

TECHNICAL DIMENSIONS

TECHNISCHE ABMESSUNGEN



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# MAKET BİÇAKLARI

UTILITY KNIFES

MODELL MESSERE

|                                                              |                                                                                      |                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG    | Plastik maket bıçağı<br>Utility knife plastic body<br>Gebrauchsmesser aus kunststoff | Metal maket bıçağı<br>Utility knife metal body<br>Gebrauchsmesser aus metall         |
| MALZEME<br>MATERIAL<br>MATERIAL                              | Plastik<br>Plastic<br>Kunststoff                                                     | Alüminyum<br>Aluminum<br>Aluminium                                                   |
| RENK<br>COLOUR<br>FARBE                                      | Mavi<br>Blue<br>Blau                                                                 | Gümüş Gri<br>Silver Grey<br>Silber Grau                                              |
| BİÇAK BİLGİLERİ<br>KNIFE INFORMATION<br>MESSER INFORMATIONEN | ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD                                         |                                                                                      |
| MALZEME<br>MATERIAL<br>MATERIAL                              | Karbon Çeliği<br>Carbon Steel<br>Kohlenstoffstahl                                    |  |
| GENİŞLİK<br>WIDTH<br>BREITE                                  | 18mm                                                                                 |                                                                                      |
| KALINLIK<br>THICKNESS<br>DICKE                               | 0,5mm                                                                                |                                                                                      |
| UZUNLUK<br>LENGTH<br>LÄNGE                                   | 100 mm (0,5x18x100mm)                                                                |                                                                                      |

## MAKET BİÇAK YEDEĞİ

CUTTER BLADE

SCHNEIDMESSER

|                                 |                       |                                                                                       |
|---------------------------------|-----------------------|---------------------------------------------------------------------------------------|
| MALZEME<br>MATERIAL<br>MATERIAL | Krom Kaplama Çelik    |  |
| GENİŞLİK<br>WIDTH<br>BREITE     | 18mm                  |                                                                                       |
| KALINLIK<br>THICKNESS<br>DICKE  | 0,5mm                 |                                                                                       |
| UZUNLUK<br>LENGTH<br>LÄNGE      | 100 mm (0,5x18x100mm) |                                                                                       |

Değerler milimetre olarak verilmiştir.

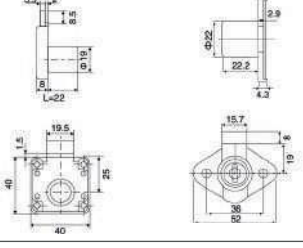
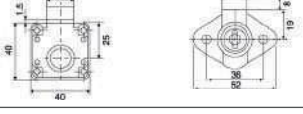
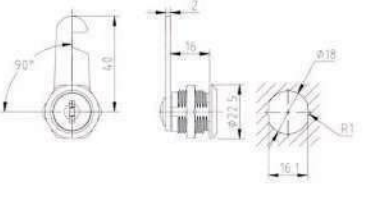
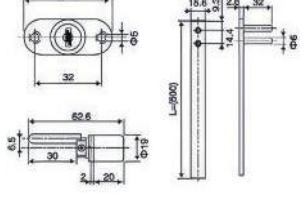
Values are given in millimeters.

Werte sind in millimetern angegeben.



**MOBİLYA  
AKSESUARLARI**  
FURNITURE  
ACCESSORIES

| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG |                                                                                 | DETAY<br>DETAIL<br>DETAIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NO 138-22C                                                | KARE ÇEKMECE KİLİDİ<br>SQUARE DRAWER LOCK<br>QUADRATISCHES<br>SCHUBLADENSCHLOSS | <p>Sac malzemeden yapılmaktadır. Kilit dili demirdir. Arka kısmı, gövde ve iç kapağı çeliktir. Mat nikel kaplamadır. Döndürme açısı saat yönünde 180°dir. 2 kırılabilir anahtarı vardır.</p> <p>It is made of sheet material. The lock tongue is iron. The back, body and inner cover are steel. Matt nickel plated. The rotation angle is 180° clockwise. It has 2 breakable keys.</p> <p>Es besteht aus Plattenmaterial. Die Schlosszunge ist aus Eisen. Die Rückseite, der Körper und die innere Abdeckung sind aus Stahl. Matt vernickelt. Der Drehwinkel beträgt 180° im Uhrzeigersinn. Es hat 2 zerbrechliche Schlüssel.</p> |
| NO 106C                                                   | OVAL ÇEKMECE KİLİDİ<br>OVAL DRAWER LOCK<br>OVALES SCHUBLADENSCHLOSS             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| NO 103-16                                                 | POSTA KUTUSU KİLİDİ<br>MAILBOX LOCK<br>BRIEFKASTENSCHLOSS                       | 103-16; 103-20 ve 103-25 ölçülerindedir. Kilit göbeği 19mm'dir. Zamak kalıp dökümlü gövdesi ve silindiri vardır. Krom kaplamadır. Döndürme açısı saat yönünde 90 derecedir. 2 kırılabilir anahtarı vardır.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| NO 103-20                                                 |                                                                                 | 103-16; It is in sizes 103-20 and 103-25. Lock core is 19mm. It has a zamak die-cast body and cylinder. It is chrome plated. The rotation angle is 90 degrees clockwise. It has 2 breakable keys.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| NO 103-25                                                 |                                                                                 | 103-16; Es ist in den Größen 103-20 und 103-25 erhältlich. Schlosskern ist 19 mm. Gehäuse und Zylinder aus Zamak-Druckguss. Es ist verchromt. Der Drehwinkel beträgt 90 Grad im Uhrzeigersinn. Es hat 2 zerbrechliche Schlüssel.                                                                                                                                                                                                                                                                                                                                                                                                   |
| 288-19A-500MM                                             | MERKEZİ ÇEKMECE KİLİDİ                                                          | <p>Merkezi gövde çubuğu 2,4 mm kalınlıkta, alüminyum malzemedir. 2 kırılabilir anahtar mevcuttur.</p> <p>The central body bar is 2.4 mm thick, aluminum material. 2 breakable keys are available.</p> <p>Die zentrale Körperstange ist 2,4 mm dickes Aluminiummaterial. 2 abbrechbare Schlüssel sind vorhanden.</p>                                                                                                                                                                                                                                                                                                                |
| 288-19A-600MM                                             | CENTRAL DRAWER LOCK                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 288-19A-700MM                                             | ZENTRALES<br>SCHUBLADENSCHLOSS                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG |                                                                                 | ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD                                         | TEKNİK ÇİZİM<br>TECHNICAL DRAWING<br>TECHNISCHE ZEICHNUNG                             |
|-----------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| NO 138-22C                                                | KARE ÇEKMECE KİLİDİ<br>SQUARE DRAWER LOCK<br>QUADRATISCHES<br>SCHUBLADENSCHLOSS |  |  |
| NO 106C                                                   | OVAL ÇEKMECE KİLİDİ<br>OVAL DRAWER LOCK<br>OVALES SCHUBLADENSCHLOSS             |  |  |
| NO 103-16                                                 | POSTA KUTUSU KİLİDİ<br>MAILBOX LOCK<br>BRIEFKASTENSCHLOSS                       |   |  |
| NO 103-20                                                 |                                                                                 |                                                                                      |                                                                                       |
| NO 103-25                                                 |                                                                                 |                                                                                      |                                                                                       |
| 288-19A-500MM                                             | MERKEZİ ÇEKMECE KİLİDİ                                                          |  |  |
| 288-19A-600MM                                             | CENTRAL DRAWER LOCK                                                             |                                                                                      |                                                                                       |
| 288-19A-700MM                                             | ZENTRALES<br>SCHUBLADENSCHLOSS                                                  |                                                                                      |                                                                                       |

# ÇEKMECE RAYLARI

DRAWER SLIDES

SCHUBLADENSCHIENEN

| GENİŞLİK<br>WIDTH<br>BREITE                         | 17mm                                                                                               |       |       |       | 35mm  |       |       |       |       | 43mm  |       |       |       |       |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| UZUNLUK<br>LENGTH<br>LÄNGE                          | 310mm                                                                                              | 342mm | 406mm | 438mm | 300mm | 350mm | 400mm | 450mm | 500mm | 300mm | 350mm | 400mm | 450mm | 500mm |
| AĞIRLIK (grams)<br>WEIGHT (grams)<br>GEWICHT(grams) | 230                                                                                                | 250   | 275   | 330   | 615   | 785   | 900   | 1020  | 1150  | 860   | 1030  | 1160  | 1320  | 1460  |
| MALZEME<br>MATERIAL<br>MATERIAL                     | Dx51 B yüzey galvaniz sac<br>DX51 B surface galvanized sheet<br>DX51 B oberfläche verzinktes blech |       |       |       |       |       |       |       |       |       |       |       |       |       |
| YÜZEY<br>AUFTAUCHEN<br>SURFACE                      | Kaplamasız<br>Uncoated<br>Unbeschichtet                                                            |       |       |       |       |       |       |       |       |       |       |       |       |       |

| TEKNİK ÇİZİM | TECHNICAL DRAWING | TECHNISCHE ZEICHNUNG |
|--------------|-------------------|----------------------|
|              |                   |                      |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# DOLAP ASKI ELEMANLARI

CABINET HANGERS

SCHRANKAUFHÄNGERE

|                                                             |                                                                    |                                                                                    |
|-------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------|
| MALZEME<br>MATERIAL<br>MATERIAL                             | Plastik + DKP Sa<br>Plastic + DKP Sheet<br>Kunststoff + DKP Blatt |  |
| RENK<br>COLOUR<br>FARBE                                     | Beyaz<br>White<br>Weiss                                            |                                                                                    |
| SAC KALINLIĐI<br>THICKNESS<br>DICKE                         | 1,20M                                                              |                                                                                    |
| TAŐIMA KAPASİTESİ<br>CARRYING CAPACITIES<br>TRAGKAPAZİTÄTEN | 80 KG                                                              |                                                                                    |

# GAZLI PİSTONLAR

GAS SPRINGS

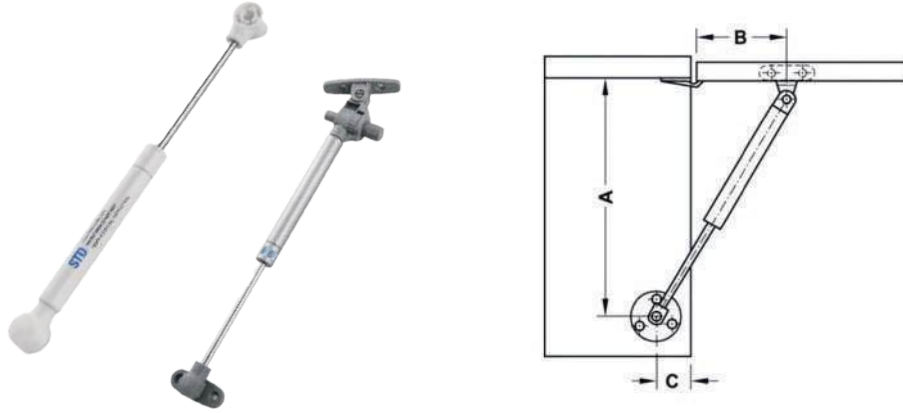
GASKOLBENE

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                                   | 80N                                                                                | 100N                                        | 120N                | KISA<br>SHORT<br>KURZ |                     |                     | TERS AÇILIR<br>DOWN OPEN<br>UNTEN ÖFFNEN | YAVAŞ KAPANAN<br>SOFT CLOSING<br>SANFTES SCHLIEßEN |                     |
|---------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|---------------------|-----------------------|---------------------|---------------------|------------------------------------------|----------------------------------------------------|---------------------|
|                                                               |                                                                                    |                                             |                     | 60N                   | 80N                 | 100N                |                                          | 80N                                                | 100N                |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)           | 130                                                                                | 130                                         | 130                 | 100                   | 100                 | 100                 | 100                                      | 150                                                | 150                 |
| RENK<br>COLOUR<br>FARBE                                       | Gri - Beyaz<br>Grey - White<br>Grau - Weiss                                        | Gri - Beyaz<br>Grey - White<br>Grau - Weiss | Gri<br>Grey<br>Grau | Gri<br>Grey<br>Grau   | Gri<br>Grey<br>Grau | Gri<br>Grey<br>Grau | Gri<br>Grey<br>Grau                      | Gri<br>Grey<br>Grau                                | Gri<br>Grey<br>Grau |
| UZUNLUK<br>LENGTH<br>LÄNGE                                    | 270 mm                                                                             | 270 mm                                      | 270 mm              | 230 mm                | 230 mm              | 230 mm              | 270 mm                                   | 270 mm                                             | 270 mm              |
| TAŞIMA KAPASİTELERİ<br>CARRYING CAPACITIES<br>TRAGKAPAZİTÄTEN | 4 KG                                                                               | 8 KG                                        | 10 KG               | 4 KG                  | 6 KG                | 8 KG                | 8 KG                                     | 6 KG                                               | 8 KG                |
| MALZEME<br>MATERIAL<br>MATERIAL                               | Çelik gövde. Pirinç yüzük.<br>Steel body. Brass ring.<br>Stahlkörper. Messingring. |                                             |                     |                       |                     |                     |                                          |                                                    |                     |

## TEKNİK ÖZELLİKLER

## TECHNICAL SPECIFICATIONS

## TECHNISCHE DATEN



Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# MENTEŞELER

HINGE

SCHARNIER

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                         | TAS MENTEŞE<br>FLAT HINGE<br>FLACHES SCHARNIER                  | PİSTONLU MENTEŞE<br>HYDRAULIC HINGE<br>KOLBENSCHARNIER<br>FULL OVERLAY - HALF OVERLAY - INSET | DERECELİ MENTEŞE<br>GRADE HINGE<br>GRADE SCHARNIER<br>45° - 90° - 135° - 165° | DERECELİ PİSTONLU MENTEŞE<br>GRADE HYDRAULIC HINGE<br>GRADE KOLBENSCHARNIER<br>45° - 90° - 165° |
|-----------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm) | 62                                                              | 93                                                                                            | 45° 70 g<br>90° 72 gr<br>135° 88gr<br>165° 142gr                              | 45° 106g<br>90° 106 g<br>165° 142g                                                              |
| MALZEME<br>MATERIAL<br>MATERIAL                     | Çelik, nikel kaplı<br>Nickel plated steel<br>Vernickelter stahl |                                                                                               |                                                                               |                                                                                                 |
| YÜZEY<br>SURFACE<br>AUFTAUCHEN                      | Saten nikel<br>Satin nickel<br>Satin nickel                     |                                                                                               |                                                                               |                                                                                                 |

| TEKNİK ÇİZİM                                                                         | TECHNICAL DRAWING | TECHNISCHE ZEICHNUNG |
|--------------------------------------------------------------------------------------|-------------------|----------------------|
|  |                   |                      |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

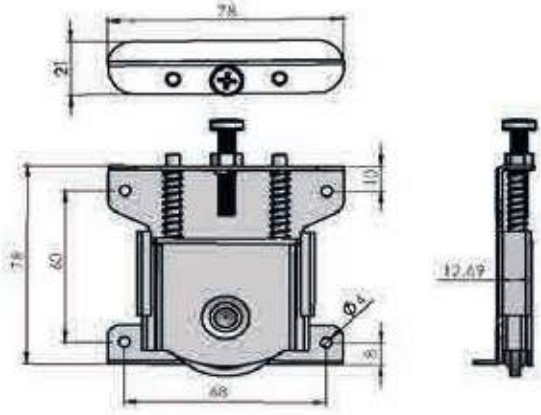
Werte sind in millimetern angegeben.

# GARDROP SÜRGÜ MEKANİZMALARI

WARDROBE SLIDING MECHANISMS

GARDEROBE-GLEITMECHANISMEN

|                                                             |                                                                    |
|-------------------------------------------------------------|--------------------------------------------------------------------|
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)         | 120 g                                                              |
| TAŞIMA KAPASİTESİ<br>CARRYING CAPACITIES<br>TRAGKAPAZITÄTEN | 80 kg                                                              |
| MALZEME<br>MATERIAL<br>MATERIAL                             | Plastik + DKP Saç<br>Plastic + DKP Sheet<br>Kunststoff + DKP Blatt |

| TEKNİK ÇİZİM                                                                       | TECHNICAL DRAWING                                                                   | TECHNISCHE ZEICHNUNG                                                                 |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# KAPI DÜRBÜNÜ

DOOR VIEWER

TÜRSPIEGEL

| Ürün Özellikleri                           | Product Properties      | Produkt Eigenschaften                                                               |
|--------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|
| MALZEME<br>MATERIAL                        | Çelik<br>Steel<br>Stahl |  |
| RENK<br>COLOUR<br>FARBE                    | SATEN<br>SATIN          |                                                                                     |
| UZUNLUK<br>LENGTH<br>LÄNGE                 | 60M-90MM                |                                                                                     |
| GÖRÜŞ AÇISI<br>VISUAL ANGLE<br>SICHTWINKEL | 180°                    |                                                                                     |
| ÇAP<br>DIAMETER<br>DURCHMESSER             | 25 mm                   |                                                                                     |

# KAPAK İTİCİ

PUSH OPEN

AUFSTOSSEN

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                         | STD 001 BEYAZ<br>STD 001 WHITE<br>STD 001 WEISS                                     | STD 001 GRİ<br>STD 001 GREY<br>STD 001 GRAU                                          | STD 002 SATEN<br>STD 002 SATIN                                                        |
|-----------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD        |  |  |  |
| AĞIRLIK (GRAM)<br>WEIGHT (GRAMS)<br>GEWICHT (GRAMM) | 170                                                                                 | 170                                                                                  | 248                                                                                   |
| UZUNLUK<br>LENGTH<br>LÄNGE                          | 130 mm                                                                              | 130 mm                                                                               | 118 mm                                                                                |
| YÜZEY<br>AUFTAUCHEN<br>SURFACE                      | PLASTİK<br>PLASTIC<br>PLASTIK                                                       | PLASTİK<br>PLASTIC<br>PLASTIK                                                        | PASLANMAZ ÇELİK<br>STAINLESS STEEL<br>ROSTFREIER STAHL                                |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# MINIFIX GÖVDE

MINIFIX BODY

MINIFIX-KÖRPER

| Ürün Özellikleri                                         | Product Properties                                   | Produkt Eigenschaften                                                               |
|----------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|
| AĞIRLIK (GRAM)<br>WEIGHT (GRAMS)<br>GEWICHT (GRAMM)      | 4,8                                                  |  |
| HAMMADDE<br>RAW MATERIAL<br>ROHSTOFF                     | OTOMAT ÇELİK<br>FREE CUTTING STEEL<br>AUTOMATENSTAHL |                                                                                     |
| KOLİ İÇİ ADET<br>QUANTITY PER CARTON<br>MENGE PER KARTON | 4.000                                                |                                                                                     |

# MINIFIX DÜBEL

MINIFIX DOVEL

MINIFIX-DÜBEL

| Ürün Özellikleri                                         | Product Properties                                   | Produkt Eigenschaften                                                                 |
|----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------|
| ÖLÇÜ<br>DIMENSION                                        | M6 8X13                                              |  |
| AĞIRLIK (GRAM)<br>WEIGHT (GRAMS)<br>GEWICHT (GRAMM)      | 3,6                                                  |                                                                                       |
| HAMMADDE<br>RAW MATERIAL<br>ROHSTOFF                     | OTOMAT ÇELİK<br>FREE CUTTING STEEL<br>AUTOMATENSTAHL |                                                                                       |
| KOLİ İÇİ ADET<br>QUANTITY PER CARTON<br>MENGE PER KARTON | 6.000                                                |                                                                                       |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# ÖLÇÜM ALETLERİ MEASURING INSTRUMENTS

Mıknatıslı Su Terazisi  
Magnetic Spirit Level

# STD ŞERİT METRELER

MEASURING TAPE

MASSBAND

| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                                   | 3m*16mm              | 5m*19mm                                                                             | 5m*25mm |
|-------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|---------|
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)               | 192                  | 208                                                                                 | 283     |
| KASA RENGİ<br>CASE COLOR<br>GEHÄUSEFARBE                          | Mavi<br>Blue<br>Blau |  |         |
| KASA KORUMASI<br>CASE PROTECTION<br>KOFFERSCHUTZ                  | Var<br>Yes<br>Ja     |                                                                                     |         |
| OTOMATİK STOP ÖZELLİĞİ<br>AUTO STOP FEATURE<br>AUTO-STOP-FUNKTION | Var<br>Yes<br>Ja     |                                                                                     |         |
| KİLİT ÖZELLİĞİ<br>LOCK FEATURE<br>SPERRFUNKTION                   | Var<br>Yes<br>Ja     |                                                                                     |         |
| KEMER TOKASI<br>BELT BUCKLE<br>GÜRTELSCHNALLE                     | Var<br>Yes<br>Ja     |                                                                                     |         |
| TAŞIMA İPİ<br>CARRY LINE<br>ÜBERTRAGUNGSLINIE                     | Var<br>Yes<br>Ja     |                                                                                     |         |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STDekko ŞERİT METRELER

MEASURING TAPE

MASSBAND

| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                                   | 3m*16mm                 | 5m*19mm                                                                             | 5m*25mm |
|-------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|---------|
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)               | 88                      | 158                                                                                 | 167     |
| KASA RENGİ<br>CASE COLOR<br>GEHÄUSEFARBE                          | Beyaz<br>White<br>Weiss |  |         |
| KASA KORUMASI<br>CASE PROTECTION<br>KOFFERSCHUTZ                  | Yok<br>No<br>Nein       |                                                                                     |         |
| OTOMATİK STOP ÖZELLİĞİ<br>AUTO STOP FEATURE<br>AUTO-STOP-FUNKTION | Yok<br>No<br>Nein       |                                                                                     |         |
| KİLİT ÖZELLİĞİ<br>LOCK FEATURE<br>SPERRFUNKTION                   | Var<br>Yes<br>Ja        |                                                                                     |         |
| KEMER TOKASI<br>BELT BUCKLE<br>GÜRTELSCHNALLE                     | Var<br>Yes<br>Ja        |                                                                                     |         |
| TAŞIMA İPİ<br>CARRY LINE<br>ÜBERTRAGUNGSLINIE                     | Var<br>Yes<br>Ja        |                                                                                     |         |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

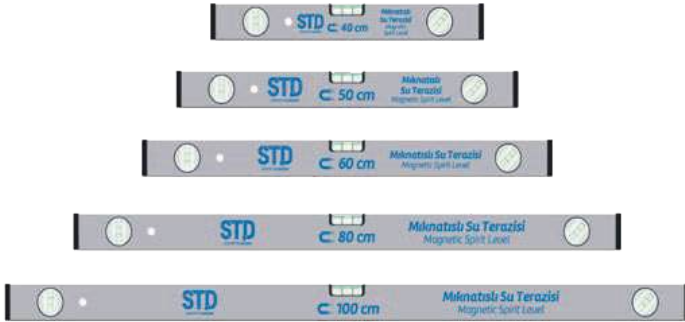
Werte sind in millimetern angegeben.

# SU TERAZİLERİ

SPIRIT LEVELS

WASSERWAAGE

| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                     | 40CM                                                                            | 50CM | 60CM | 80CM | 100CM |
|-----------------------------------------------------|---------------------------------------------------------------------------------|------|------|------|-------|
| MALZEME<br>MATERIAL<br>MATERIAL                     | Alüminyum + manyetik özellikli<br>Aluminum + magnetic<br>Aluminium + magnetisch |      |      |      |       |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm) | 185                                                                             | 226  | 268  | 361  | 377   |

| ÜRÜN GÖRSELİ                                                                        | PRODUCT IMAGE | PRODUKTBILD |
|-------------------------------------------------------------------------------------|---------------|-------------|
|  |               |             |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

A large, light-brown wooden crate is positioned on a wooden pallet. A yellow pallet jack is positioned behind the pallet, ready to move it. The background is a dark, industrial setting with metal structures. A dark blue semi-transparent rectangle is overlaid on the right side of the image, containing white text.

# **TAŞIMA KALDIRMA EKİPMANLARI**

LIFTING AND  
HANDLING  
EQUIPMENT

# SAPANLAR

WEBBING SLINGS

HEBEBANDER

| ÖLÇÜLERİ<br>DIMENSIONS<br>MASSE                                                                                           | TON<br>TON<br>TONNE                                                                                                                                                                                                                                                                                                                                                   | 1 METRE<br>1 METER<br>1 METER | 2 METRE<br>2 METER<br>2 METER | 3 METRE<br>3 METER<br>3 METER | 4 METRE<br>4 METER<br>4 METER | 5 METRE<br>5 METER<br>5 METER                                                         | 6 METRE<br>6 METER<br>6 METER |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------------------------------------------------------------|-------------------------------|
| AĞIRLIK (gram/m²)<br>WEIGHT (grams/m²)<br>GEWICHT (gramm/m²)                                                              | 1                                                                                                                                                                                                                                                                                                                                                                     | 200                           | 300                           | 400                           | 550                           | 650                                                                                   | —                             |
|                                                                                                                           | 2                                                                                                                                                                                                                                                                                                                                                                     | 400                           | 600                           | 850                           | 1050                          | 1250                                                                                  | —                             |
|                                                                                                                           | 3                                                                                                                                                                                                                                                                                                                                                                     | —                             | 900                           | 1250                          | 1600                          | 1950                                                                                  | —                             |
|                                                                                                                           | 4                                                                                                                                                                                                                                                                                                                                                                     | —                             | 1150                          | 1600                          | 2050                          | 2550                                                                                  | 3000                          |
|                                                                                                                           | 5                                                                                                                                                                                                                                                                                                                                                                     | —                             | —                             | 2100                          | 2700                          | 3300                                                                                  | 3900                          |
|                                                                                                                           | 6                                                                                                                                                                                                                                                                                                                                                                     | —                             | —                             | 2500                          | 3220                          | 3950                                                                                  | 4650                          |
| AMBALAJ DETAYI<br>(Koli içi miktar)<br>PACKING DETAILS<br>(Quantity per Carton)<br>VERPACKUNGSDetail<br>(Menge im Karton) | TON<br>TON<br>TONNE                                                                                                                                                                                                                                                                                                                                                   | 1 METRE<br>1 METER<br>1 METER | 2 METRE<br>2 METER<br>2 METER | 3 METRE<br>3 METER<br>3 METER | 4 METRE<br>4 METER<br>4 METER | 5 METRE<br>5 METER<br>5 METER                                                         | 6 METRE<br>6 METER<br>6 METER |
|                                                                                                                           | 1                                                                                                                                                                                                                                                                                                                                                                     | 50                            | 50                            | 40                            | 35                            | 30                                                                                    | —                             |
|                                                                                                                           | 2                                                                                                                                                                                                                                                                                                                                                                     | 35                            | 30                            | 25                            | 20                            | 15                                                                                    | —                             |
|                                                                                                                           | 3                                                                                                                                                                                                                                                                                                                                                                     | —                             | 20                            | 15                            | 12                            | 10                                                                                    | —                             |
|                                                                                                                           | 4                                                                                                                                                                                                                                                                                                                                                                     | —                             | 15                            | 12                            | 10                            | 9                                                                                     | 6                             |
|                                                                                                                           | 5                                                                                                                                                                                                                                                                                                                                                                     | —                             | —                             | 8                             | 6                             | 6                                                                                     | 6                             |
|                                                                                                                           | 6                                                                                                                                                                                                                                                                                                                                                                     | —                             | —                             | 8                             | 6                             | 5                                                                                     | 5                             |
| MALZEME<br>MATERIAL                                                                                                       | %100 Polyester                                                                                                                                                                                                                                                                                                                                                        |                               |                               |                               |                               |  |                               |
| GÜVENLİK FAKTÖRÜ<br>SAFETY FACTOR<br>SICHERHEITSAKTOR                                                                     | 5:1                                                                                                                                                                                                                                                                                                                                                                   |                               |                               |                               |                               |                                                                                       |                               |
| AMBALAJ DETAYI<br>PACKING DETAILS<br>VERPACKUNGSDetail                                                                    | Her bir malzeme tekli ambalaj ile birlikte gelmektedir.<br>Each item comes with a single shrink.<br>Jedem artikel wird mit einem einzigen schrumpf geliefert.                                                                                                                                                                                                         |                               |                               |                               |                               |                                                                                       |                               |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>ZWECK DER NUTZUNG                                                                   | Sapanlar yüklerin kaldırılması ve indirilmesini sağlayan hafif, malzemeye zarar vermeyen, polyesterden örülmüş malzemelerdir.<br>Web slings are lightweight, non-damaging, polyester knitted materials that enable lifting and lowering of loads.<br>Hebebänder sind leichte, schonende Polyester-Strickmaterialien, die das Heben und Senken von Lasten ermöglichen. |                               |                               |                               |                               |                                                                                       |                               |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# STD ŞİŞME TEKERLER

INFLATABLE WHEELS

AUFBLASBARE RÄDER

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                                       | Metal jant<br>Şişme teker<br>Metal rim<br>Pneumatic wheel<br>Lufrad mit<br>Metallfelge | Plastik jant<br>Şişme teker<br>Plastic rim<br>Pneumatic wheel<br>Kunststoffelge<br>Lufrad | Pu teker<br>Pu wheel<br>Pu-rad                                                        | İç teker<br>Inner wheel<br>Inneres rad                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| MALZEME<br>MATERIAL                                               | Kauçuk<br>Rubber<br>Gummi                                                              | Kauçuk<br>Rubber<br>Gummi                                                                 | Kauçuk<br>Rubber<br>Gummi                                                             | Kauçuk<br>Rubber<br>Gummi                                                             |
| JANT<br>RIM<br>FEDGE                                              | Galvanized<br>Sheet                                                                    | Plastic                                                                                   | Galvanized<br>Sheet                                                                   | -                                                                                     |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)               | 2,15 kg                                                                                | 2 kg                                                                                      | 2,15 kg                                                                               | 0,3 kg                                                                                |
| TAŞIMA KAPASİTESİ<br>CARRYING CAPACITIES<br>TRAGKAPAZITÄTEN       | 110 kg                                                                                 | 110 kg                                                                                    | 110 kg                                                                                | -                                                                                     |
| BASINÇ (BAR)<br>PRESSURE (BAR)<br>DRUCK (BAR)                     | 1,38                                                                                   | 1,38                                                                                      | 1,38                                                                                  | -                                                                                     |
| SAC KALINLIĞI<br>THICKNESS<br>DICKE                               | 1 mm                                                                                   | -                                                                                         | 1 mm                                                                                  | -                                                                                     |
| TEKERLEK ÇAPI<br>WHEEL DIAMETER<br>RADDURCHMESSER                 | 345 mm                                                                                 | 345 mm                                                                                    | 345 mm                                                                                | -                                                                                     |
| TEKERLEK GENİŞLİĞİ<br>WHEEL WIDTH<br>RADBREITE                    | 77 mm                                                                                  | 77 mm                                                                                     | 77 mm                                                                                 | -                                                                                     |
| JANT ÇAPI<br>WHEEL DIAMETER<br>RADDURCHMESSER                     | 205 mm                                                                                 | 205 mm                                                                                    | 205 mm                                                                                | -                                                                                     |
| RULMAN İÇ ÇAP<br>BEARING INSIDE DIAMETER<br>LAGERINNENDURCHMESSER | 20 mm                                                                                  | 20 mm                                                                                     | 20 mm                                                                                 | -                                                                                     |
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD                      |     |        |  |  |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.

# TRANSPALETLER

PALLET TRUCKS

HUBWAGENE

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                                            | Ce belgeli<br>Ce certified<br>Ce-zertifiziert     | Ce belgesiz<br>Without ce certificate<br>Ohne ce-zertifikat                                                                   |
|------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| SAC KALINLIĞI<br>THICKNESS<br>DICKE                                    | 3 mm                                              | 3,75 mm                                                                                                                       |
| TEKERLEK<br>WHEEL<br>RAD                                               | Beyaz<br>White<br>Weiss                           | Kırmızı<br>RED<br>ROT                                                                                                         |
| TEKERLEK MALZEME<br>WHEEL MATERIAL<br>RAD MATERIAL                     | Polyamid teker<br>Polyamide wheel<br>Polyamid-rad | Polyamid üzeri poliüretan kaplı teker<br>Polyurethane coated wheel on polyamide<br>Polyurethanbeschichtete räder auf polyamid |
| RENK<br>COLOUR<br>FARBE                                                | Sarı<br>Yellow<br>Gelb                            |                                            |
| TAŞIMA KAPASİTESİ<br>CARRYING CAPACITIES<br>TRAGKAPAZITÄTEN            | 2500 kg                                           |                                                                                                                               |
| TEK ÇATAL GENİŞLİĞİ<br>SINGLE FORK WIDTH<br>EINZELNE GABELBREITE       | 160 mm                                            |                                                                                                                               |
| MİNİMUM ÇATAL YÜKSEKLİĞİ<br>MINIMUM FORK HEIGHT<br>MINDESTGABELHÖHE    | 85 mm                                             |                                                                                                                               |
| MAKSİMUM ÇATAL YÜKSEKLİĞİ<br>MAXIMUM FORK HEIGHT<br>MAXIMALE GABELHÖHE | 200 mm                                            |                                                                                                                               |

## KOLİ TAŞIMA ARABASI

FOLDING UTILITY WAGON

ZUSAMMENKLAPPBARER NUTZWAGEN

| MODEL<br>MODEL<br>MODELL                                | AÇIK POZİSYON ÖLÇÜLERİ (cm)<br>OPEN POSITION DIMENSIONS (cm)<br>POSITIONSABMESSUNGEN OFFNEN (cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | KAPALI POZİSYON ÖLÇÜLERİ (cm)<br>CLOSED POSITION DIMENSIONS (cm)<br>ABMESSUNGEN DER GESCHLOSSENEN<br>POSITION (cm) | TAŞIMA KAPASİTESİ (kg)<br>CARRYING CAPACITY (kg)<br>TRAGKAPAZİTÄT (kg) | TEKER DETAYI<br>WHEEL DETAIL<br>RADEDETAIL                                                                                                                                     |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STD KOLİ TAŞIMA<br>ARABASI                              | 87 X 55 X 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 75 X 55 X 21                                                                                                       | 80                                                                     | 8 X 1,75 PVC                                                                                                                                                                   |
| AÇIKLAMA<br>DESCRIPTION<br>BESCHREIBUNG                 | <p>Çelik çerçeveyle üretilmiş ve sağlam bir kumaş astarla kapatılmış portatif katlanır yük taşıma arabasıdır. Dört sağlam tekerleğe sahiptir ve daha fazla kullanıcı konforu için yumuşak kavramalı bir kola sahiptir. Maksimum 80 kg yük kapasitelidir.</p> <p>It is a portable folding cargo trolley manufactured with a steel frame and covered with a sturdy fabric lining. It has four sturdy wheels and is attached to a soft-grip handle for greater user comfort. It has a maximum load capacity of 80 kg.</p> <p>Es handelt sich um einen tragbaren, zusammenklappbaren Lastenwagen mit einem Stahlrahmen und einer stabilen Stoffauskleidung. Er verfügt über vier stabile Räder und ist für mehr Benutzerkomfort an einem Softgrip-Griff befestigt. Die maximale Tragfähigkeit beträgt 80 kg.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                    |                                                                        | <br> |
| KULLANIM AMACI<br>PURPOSE OF USAGE<br>ZWECK DER NUTZUNG | <p>Yük taşıma, bahçe işleri, kamp, barbekü, festivaller, piknikler, parkta oyun ve alışveriş gibi tüm aile ve tüm dış mekan aktiviteleri için idealdir. Bu katlanır araba, birçok mevsime dayanacak kadar dayanıklı, güçlü ve sağlam, yüksek kaliteli malzemeden yapılmıştır. Hafif, taşınabilir ve yüksek esnekliğe sahiptir. Montajı ve sökülmesi kolaydır. Yer kaplamadan katlanabilir, saklanabilir ve depolanabilir.</p> <p>Ideal for the whole family and all outdoor activities such as carrying loads, gardening, camping, barbecues, festivals, picnics, playing in the park and shopping. This folding stroller is made of high quality material, strong and sturdy, durable enough to withstand many seasons. It is lightweight, portable and highly flexible. It is easy to assemble and disassemble. It can be folded, stored and stored without taking up space.</p> <p>Ideal für die ganze Familie und alle Outdoor-Aktivitäten wie Lastentragen, Gartenarbeit, Camping, Grillen, Festivals, Picknicks, Spielen im Park und Einkaufen. Dieser faltbare Kinderwagen besteht aus hochwertigem Material, ist stark und robust und langlebig genug, um vielen Jahreszeiten standzuhalten. Es ist leicht, tragbar und äußerst flexibel. Es ist einfach zu montieren und zu demontieren. Es kann zusammengeklappt, verstaut und verstaut werden, ohne Platz zu beanspruchen.</p> |                                                                                                                    |                                                                        |                                                                                                                                                                                |

Değerler milimetre olarak verilmiştir.

Values are given in millimeters.

Werte sind in millimetern angegeben.



**TEKNİK  
KİMYASALLAR**  
TECHNICAL  
CHEMICALS

# KİMYASAL DÜBELLER

CHEMICAL ANCHORS

CHEMISCHER ANKER

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                                     |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
| ÇEŞİTLERİ<br>TYPES<br>TYPEN                                | 345ml                                                                                                                                                                                                                                                                                                                                                                                                          | 410ml        |  |
| MALZEME<br>MATERIAL<br>MATERIAL                            | Polyester reçine bazlıdır.                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                     |
| SICAKLIK ARALIĞI<br>TEMPERATURE RANGE<br>TEMPERATURBEREICH | -40°C +120°C                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C +120°C |                                                                                     |
| SERTİFİKASYON<br>CERTIFICATION<br>ZERTIFIZIERUNG           | CE, TSE                                                                                                                                                                                                                                                                                                                                                                                                        |              |                                                                                     |
| RAF ÖMRÜ<br>SHELF LIFE<br>HALTBARKEIT                      | 18 Ay<br>18 Months<br>18 Monate                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                                     |
| UYGULAMA ALANLARI<br>USAGE AREAS<br>EINSATZBEREICHE        | Beton, mermer, taş vb. ankraj ve yapıştırma işlerinde, makine ve sistemlerin ankraj ve montaj işlerinde kullanılır.<br><br>Concrete, marble, stone etc. It is used in anchoring and bonding works, anchoring and assembly works of machines and systems.<br><br>Beton, Marmor, Stein etc. Es wird bei Verankerungs- und Klebearbeiten, Verankerungs- und Montagearbeiten von Maschinen und Anlagen eingesetzt. |              |                                                                                     |

# POLİÜRETAN KÖPÜK

POLYURETHANE FOAM

POLYURETHANSCHAUM



| Ürün Özellikleri                               |                                                                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hızlı Uygulama                                 |                                                                                                                                                                                                       |
| Ekstra Formül                                  |                                                                                                                                                                                                       |
| Çok Amaçlı                                     |                                                                                                                                                                                                       |
| Product Properties                             |                                                                                                                                                                                                       |
| Quick Application                              |                                                                                                                                                                                                       |
| Extra Formula                                  |                                                                                                                                                                                                       |
| Multipurpose                                   |                                                                                                                                                                                                       |
| Produkt Eigenschaften                          |                                                                                                                                                                                                       |
| Schnelle Anwendung                             |                                                                                                                                                                                                       |
| Zusätzliche Formel                             |                                                                                                                                                                                                       |
| Mehrzweck                                      |                                                                                                                                                                                                       |
| Raf Ömrü<br>Shelf life<br>Haltbarkeit          | 12 ay / 12 month / 12 Monate                                                                                                                                                                          |
| Ağırlık<br>Weight<br>Gewicht                   | 600 g                                                                                                                                                                                                 |
| Kullanım Alanı<br>Usage Area<br>Einsatzbereich | Kapı pencere montajı, Boşluk doldurma, Ses ve Isı izolasyon<br>Door and window installation, Gap filling, Sound and Heat insulation<br>Tür- und Fenstereinbau, Fugenfüllung, Schall- und Warmedämmung |

# SİLİKON VE EPOKSİ TABANCI

SILICONE AND EPOXY GUNS

SILIKON UND EPOXIDPISTOLE

| ÇEŞİTLERİ<br>TYPES<br>TYPEN                                                   | SİLİKON PLASTİK<br>SILICONE PLASTIC<br>SILIKON KUNSTSTOFF                          | SİLİKON METAL<br>SILICONE METAL<br>SILIKON-METALL                                   | EPOKSİ 345 ml<br>EPOXY 345 ml<br>EPOXID 345 ml                                        | EPOKSİ 410 ml<br>EPOXY 410 ml<br>EPOXID 410 ml                                        |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)                           | 265                                                                                | 533                                                                                 | 664                                                                                   | 810                                                                                   |
| MALZEME<br>MATERIAL                                                           | Plastik<br>Plastic<br>Kunststoff                                                   | Metal<br>Metall                                                                     | Metal<br>Metall                                                                       | Metal<br>Metall                                                                       |
| TEK BASKIDA İLERLEYİŞİ<br>PROGRESS IN ONE PRINT<br>FORTSCHRITT IN EINEM DRUCK | 8 - 10 mm                                                                          | 5 - 7 mm                                                                            | 5 - 7 mm                                                                              | 5 - 7 mm                                                                              |
| RENK<br>COLOUR<br>FARBE                                                       | Siyah<br>Black<br>Schwarz                                                          | Siyah<br>Black<br>Schwarz                                                           | Siyah<br>Black<br>Schwarz                                                             | Siyah, kırmızı<br>Black, red<br>Schwarz, rot                                          |
| TEKNİK ÇİZİM<br>TECHNICAL DRAWING<br>TECHNISCHE ZEICHNUNG                     |   |    |    |    |
| ÜRÜN GÖRSELİ<br>PRODUCT IMAGE<br>PRODUKTBILD                                  |  |  |  |  |

## SİLİKONİZE MASTİK

SILICONE SEALANT

SILIKON DICHTUNGSMITTEL



### Ürün Özellikleri

- Hızlı Uygulama
- Kuvvetli Sızdırmazlık
- UV Işınlara Dayanıklı

### Product Properties

- Quick Application
- Strong Sealing
- UV Resistant

### Produkt Eigenschaften

- Schnelle Anwendung
- Starke Versiegelung
- UV, beständig

Raf Ömrü  
Shelf life  
Haltbarkeit

12 ay / 12 month / 12 Monate

Ağırlık  
Weight  
Gewicht

500 g

Kullanım Alanı  
Usage Area  
Einsatzbereich

Alüminyum, Cam, Seramik, Metal  
Aluminum, Glass, Ceramic, Metal  
Aluminium, Glas, Keramik, Metall

# SİLİKON

SILICON

SILIZIUM



## Ürün Özellikleri

|                       |
|-----------------------|
| Hızlı Uygulama        |
| Kuvvetli Sızdırmazlık |
| UV Işınlara Dayanıklı |

## Product Properties

|                   |
|-------------------|
| Quick Application |
| Strong Sealing    |
| UV Resistant      |

## Produkt Eigenschaften

|                   |
|-------------------|
| Quick Application |
| Strong Sealing    |
| UV Resistant      |

|                                                |                                                                                                                             |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Raf Ömrü<br>Shelf life<br>Haltbarkeit          | 12 ay / 12 month / 12 Monate                                                                                                |
| Ağırlık<br>Weight<br>Gewicht                   | 300 g                                                                                                                       |
| Kullanım Alanı<br>Usage Area<br>Einsatzbereich | Alüminyum, Cam, Seramik, Banyo, Mutfak<br>Aluminium, Glaskeramik, Bad, Küche<br>Aluminum, Glass, Ceramic, Bathroom, Kitchen |

# SPREY BOYALAR

SPRAY PAINTS

SPRÜHFARBEN



Ölçü  
Dimension  
Messung

400 ml

Ağırlık  
Weight  
Gewicht

320 g



# HIZLI YAPIŖTIRICI

SUPER GLUE

SEKUNDENKLEBER

|                                                                                        |                       |  |
|----------------------------------------------------------------------------------------|-----------------------|--|
| ÜRÜN TANIMI<br>PRODUCT DESCRIPTION<br>PRODUKTBESCHREIBUNG                              | STD 801               |  |
| AĞIRLIK (gram)<br>WEIGHT (grams)<br>GEWICHT (gramm)                                    | 20 g                  |  |
| SICAKLIK ARALIĞI<br>TEMPERATURE RANGE<br>TEMPERATURBEREICH                             | -54°C +82°C           |  |
| RENK<br>COLOUR<br>FARBE                                                                | Saydam<br>Transparent |  |
| NİHAİ ÇEKME KUVVETİ (N/mm)<br>ENDGÜLTIGE ZUGKRAFT (N/mm)<br>FINAL TENSILE FORCE (N/mm) | ~200                  |  |
| VİSKOZİTE (Cp)<br>VISCOSITY (Cp)<br>VISKOSITÄT (Cp)                                    | 2 - 5                 |  |

| İLK TUTUŖ SÜRESİ                                                         | FIRST HOLD TIME | ERSTES HALTEN MAL                        |
|--------------------------------------------------------------------------|-----------------|------------------------------------------|
| KAUÇUK İLE KAUÇUK<br>RUBBER WITH RUBBER<br>GUMMI MIT GUMMI               |                 | < 3 saniye<br>< 3 second<br>< 3 zweite   |
| PLASTİK İLE PLASTİK<br>KUNSTSTOFF MIT KUNSTSTOFF<br>PLASTIC WITH PLASTIC |                 | < 5 saniye<br>< 5 second<br>< 5 zweite   |
| METAL İLE METAL<br>METAL WITH METAL<br>METALL MIT METALL                 |                 | < 10 saniye<br>< 10 second<br><10 zweite |