

PRECISION TECHNOLOGY SUPPLIES

Stainless Steel Industrial Fastenings & Precision Turned Parts

PRODUCT eCATALOGUE



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MUTTERN



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NIEDRIGE FORM

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MIT NICHTMETALLISCHEM

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SCHLITZMUTTERN DIN 546

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SICHERUNGSMUTTERN (PAL)
DIN 7967

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RÄNDELMUTTERN, HOHE
FORM DIN 466

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RÄNDELMUTTERN, NIEDRIGE
FORM DIN 467

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USA SECHSKANTMUTTERN, SCHWERE AUSFÜHRUNG ANSI

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USA SECHSKANTMUTTERN, K-L

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USA FEDERRINGE ANSI
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USA ZAHNSCHLEIBEN, FORM A

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INNENSECHSKANTSCHRAUBEN



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INNENSECHSKANT

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GEWINDESTANGEN

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SICHERUNGSSCHEIBEN
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METRIC
p128



POLYTECH 30
LINSENKOPFSCHRAUBEN FÜR

Click for
METRIC
p119



POLYTECH 30
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POLYFIX 45
LINSENKOPFSCHRAUBEN FÜR

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POLYFIX 45
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POLYFIX 45
LINSENKOPFSCHRAUBEN FÜR

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p125



POLYFIX 45
SENKKOPFSCHRAUBEN FÜR

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p124



POLYFIX 45
LINSENKOPFSCHRAUBEN FÜR

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BUMAX



**BUMAX
SECHSKANTMUTTERN**

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p343**

**INCH
p455**



**BUMAX UNTERLEGSCHIBEN
200HV**

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**METRIC
p342**

**INCH
p454**



**BUMAX ZYLINDERSCHRAUBEN
MIT INNENSECHSKANT**

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p339**

**INCH
p453**



**BUMAX SENKSCHEUBEN
MIT INNENSECHSKANT**

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p337**



**BUMAX
SECHSKANTSCHRAUBEN MIT**

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p335**

**INCH
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**BUMAX
SECHSKANTSCHRAUBEN MIT**

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p451**

BITS - DRIVE



BITS - POZI, 1/4" SECHSKANT

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BITS - TX + PIN, 1/4" SECHSKANT

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BITS - HEX + PIN, 1/4" SECHSKANT

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BITS - 2LOCH, 1/4" SECHSKANT

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L-PIN-INBUS-SCHLÜSSEL

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L-PIN-TORX-SCHLÜSSEL

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BLINDNIETEN UND EINNIETMUTTERN



BLINDNIETEN MIT FLACHKOPF
UND GERILLEM NIETDORN

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METRIC
p26



BLINDNIETEN MIT SENKKOPF
UND GERILLEM NIETDORN

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METRIC
p25



DICHTBLINDNIETEN MIT
FLACHKOPF UND GERILLEM

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FLAKO-EINNIETMUTTERN,
RUNDSCHAFT OFFEN,

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METRIC
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SEKO-EINNIETMUTTERN,
RUNDSCHAFT OFFEN,

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EINNIETMUTTERN MIT
KLEINEM SENKKOPF,

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FLAKO-EINNIETMUTTERN,
TEILSECHSKANTSCHAFT

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EINNIETMUTTERN MIT
KLEINEM SENKKOPF,

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METRIC
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HALBRUNDNIETEN DIN 660

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METRIC
p17



SENKNIETEN DIN 661

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METRIC
p16

VERSCHLUßSCHRAUBEN



VERSCHLUßSCHRAUBEN MIT
ISK KEGELGEWINDE

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VERSCHLUßSCHRAUBEN MIT
BUND, ISK UND FEINGEWINDE

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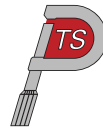
VERBÜNDETE PRODUKTE



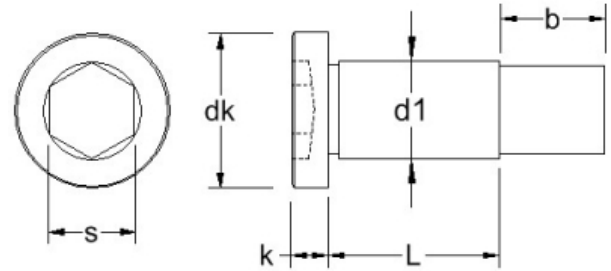
SCHLAUSCHELLEN MIT
SCHNECKENANTRIEB, FORM A

Click for
METRIC
p10





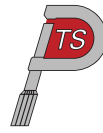
ULTRA LOW HEAD SOCKET SHOULDER SCREWS



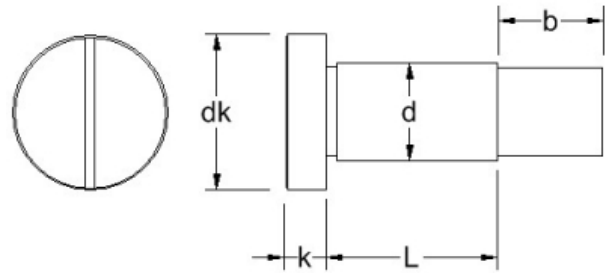
Material Grades: **A4:▲**

| b | 4.0 | 5 | 6 | 11 | | | | | | | | | | | | | | |
|----------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 6.0 | 9.0 | 10 | 13 | | | | | | | | | | | | | | |
| k | 1.3 | 1.3 | 1.7 | 2.0 | | | | | | | | | | | | | | |
| s | 2 | 2.5 | 3 | 4 | | | | | | | | | | | | | | |
| Thread | M3 | M4 | M5 | M6 | | | | | | | | | | | | | | |
| length/d | 4.0 | 5.0 | 6.0 | 8.0 | | | | | | | | | | | | | | |
| 4 | ▲ | ▲ | ▲ | | | | | | | | | | | | | | | |
| 5 | ▲ | ▲ | ▲ | | | | | | | | | | | | | | | |
| 6 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 8 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 10 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 12 | | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 16 | | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 20 | | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |

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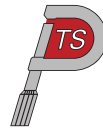
ULTRA LOW HEAD SLOTTED SHOULDER SCREWS



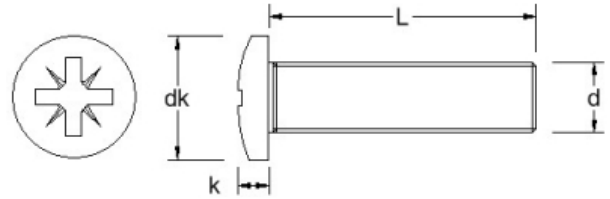
Material Grades: **A4:▲**

| b | 4 | 5 | 6 | 11 | | | | | | | | | | | |
|----------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|
| dk | 6.0 | 9.0 | 10 | 13 | | | | | | | | | | | |
| k | 1.3 | 1.3 | 1.7 | 2.0 | | | | | | | | | | | |
| Thread | M3 | M4 | M5 | M6 | | | | | | | | | | | |
| length/d | 4.0 | 5.0 | 6.0 | 8.0 | | | | | | | | | | | |
| 4 | ▲ | ▲ | ▲ | | | | | | | | | | | | |
| 5 | ▲ | ▲ | ▲ | | | | | | | | | | | | |
| 6 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | |
| 8 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | |
| 10 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | |
| 12 | | ▲ | ▲ | ▲ | | | | | | | | | | | |
| 16 | | ▲ | ▲ | ▲ | | | | | | | | | | | |
| 20 | | ▲ | ▲ | ▲ | | | | | | | | | | | |

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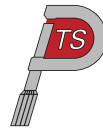
LINSENSCHRAUBEN MIT KREUZSCHLITZ - POZIDRIVE, DIN 7985 Z



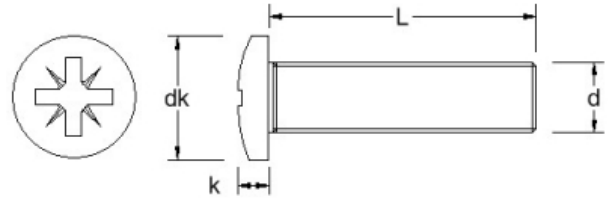
Material Grades: A2: ● A4: ▲

| dk (max) | 3.2 | 4 | 5 | 6 | 8 | 7 | 10 | 12 | 16 | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|
| Drive | #0 | #0 | #1 | #1 | #2 | #2 | #2 | #3 | #4 | | | | | | | | |
| k (max) | 1.42 | 1.72 | 2.12 | 2.52 | 3.25 | 2.82 | 3.95 | 4.75 | 6.15 | | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.6 | 0.8 | 1.0 | 1.25 | | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M3.5 | M5 | M6 | M8 | | | | | | | | |
| 2 | ●▲ | | | | | | | | | | | | | | | | |
| 3 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ● | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | | | ●▲ | ●▲ | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 22 | | | ●▲ | ●▲ | | | ●▲ | ●▲ | ● | | | | | | | | |
| 25 | | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 28 | | | ●▲ | ●▲ | ●▲ | | ▲ | ●▲ | | | | | | | | | |
| 30 | | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | | |

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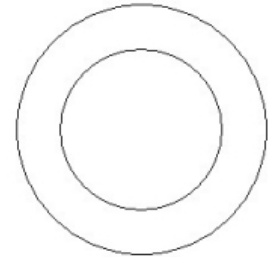
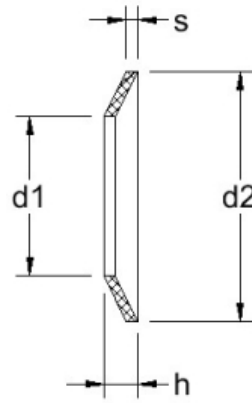


Material Grades: A2: ● A4: ▲

| dk (max) | 3.2 | 4 | 5 | 6 | 8 | 7 | 10 | 12 | 16 | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|
| Drive | #0 | #0 | #1 | #1 | #2 | #2 | #2 | #3 | #4 | | | | | | | | |
| k (max) | 1.42 | 1.72 | 2.12 | 2.52 | 3.25 | 2.82 | 3.95 | 4.75 | 6.15 | | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.6 | 0.8 | 1.0 | 1.25 | | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M3.5 | M5 | M6 | M8 | | | | | | | | |
| 35 | | | | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 40 | | | | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 45 | | | | ●▲ | ●▲ | | ●▲ | ●▲ | ● | | | | | | | | |
| 50 | | | | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 55 | | | | ●▲ | ●▲ | | ●▲ | ●▲ | ● | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 65 | | | | | ● | | ●▲ | ●▲ | ● | | | | | | | | |
| 70 | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 75 | | | | | | | ●▲ | | | | | | | | | | |
| 80 | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 90 | | | | | ●▲ | | ●▲ | ●▲ | ● | | | | | | | | |
| 100 | | | | | ●▲ | | ●▲ | ●▲ | ● | | | | | | | | |

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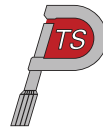
DIN 6796 KONISCHE UNTERLEGSSCHEIBE



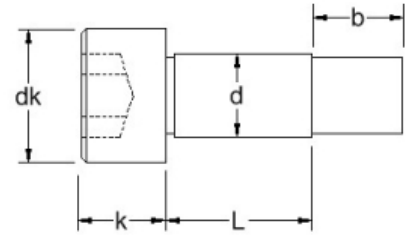
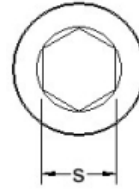
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|
| d1 | 3.2 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | | | | |
| d2 | 7 | 9 | 11 | 14 | 18 | 23 | 29 | 35 | 39 | 42 | 45 | 49 | 56 | | | | |
| h | 0.72-0.85 | 1.12-1.30 | 1.35-1.55 | 1.70-2.00 | 2.24-2.60 | 2.80-3.20 | 3.43-3.95 | 4.04-4.65 | 4.58-5.25 | 5.08-5.80 | 5.60-6.40 | 6.15-7.05 | 6.77-7.75 | | | | |
| s | 0.60 | 1.00 | 1.20 | 1.50 | 2.00 | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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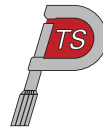
KNURLED SOCKET SHOULDER SCREWS



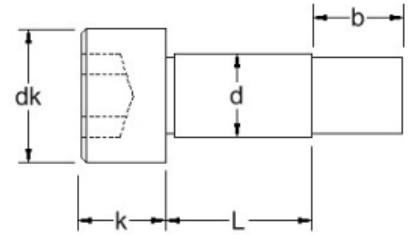
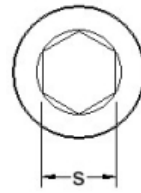
Material Grades: A2: ● A4: ▲

| b | 3.8 | 4.5 | 4.5 | 9.5 | 11 | 13 | 16 | 18 | 22 | | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|----|-----|-----|-----|----|--|--|--|--|--|--|--|--|--|
| dk | 5.0 | 6.0 | 9.0 | 10 | 13 | 16 | 18 | 24 | 30 | | | | | | | | | | |
| k | 2.0 | 3.0 | 4.0 | 4.5 | 5.5 | 7 | 9 | 11 | 14 | | | | | | | | | | |
| s | 2.0 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | | | | | | |
| Thread | M2 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | |
| length/d | 3.0 | 4.0 | 5.0 | 6.0 | 8.0 | 10 | 12 | 16 | 20 | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 7 | | ●▲ | | ●▲ | | | | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 12 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 14 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 16 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 18 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 20 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 25 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 30 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 35 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 40 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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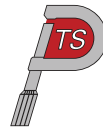
KNURLED SOCKET SHOULDER SCREWS



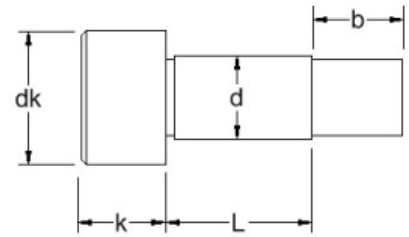
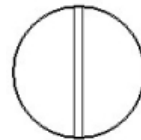
Material Grades: A2: ● A4: ▲

| | b | 3.8 | 4.5 | 4.5 | 9.5 | 11 | 13 | 16 | 18 | 22 | | | | | | | | | |
|----------|---|-----|-----|-----|-----|-----|----|-----|-----|-----|--|--|--|--|--|--|--|--|--|
| dk | | 5.0 | 6.0 | 9.0 | 10 | 13 | 16 | 18 | 24 | 30 | | | | | | | | | |
| k | | 2.0 | 3.0 | 4.0 | 4.5 | 5.5 | 7 | 9 | 11 | 14 | | | | | | | | | |
| s | | 2.0 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | | | | | |
| Thread | | M2 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | |
| length/d | | 3.0 | 4.0 | 5.0 | 6.0 | 8.0 | 10 | 12 | 16 | 20 | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 55 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 60 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 70 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 80 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 90 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 100 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 120 | | | | | | | | | | ●▲ | | | | | | | | | |

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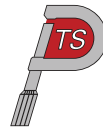
SLOTTED SHOULDER SCREWS



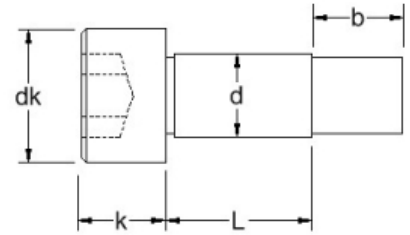
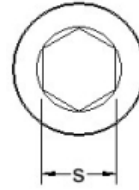
Material Grades: A2: ●

| b | 4 | 5 | 6 | 11 | 12 | | 16 | | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|----|-----|--|--|--|--|--|--|--|--|--|--|
| dk | 6.0 | 8.0 | 10 | 12 | 14 | | 20 | | | | | | | | | | |
| k | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | | 8.0 | | | | | | | | | | |
| Thread | M3 | M4 | M5 | M6 | M8 | | M10 | | | | | | | | | | |
| length/d | 4.0 | 5.0 | 6.0 | 8.0 | 10 | 10 | 12 | | | | | | | | | | |
| 4 | ● | ● | ● | | | | | | | | | | | | | | |
| 5 | ● | ● | ● | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 12 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 14 | | ● | ● | | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 20 | | ● | ● | ● | | | ● | | | | | | | | | | |
| 25 | | ● | ● | | | | ● | | | | | | | | | | |
| 30 | | ● | ● | | | | | | | | | | | | | | |

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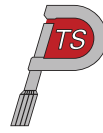
SOCKET SHOULDER SCREWS



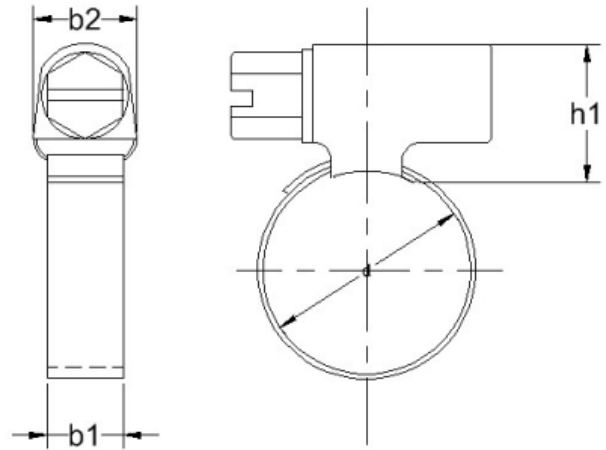
Material Grades: A2: ● 416: ◆

| b | 4.0 | 5 | 6 | 11 | 11 | 12 | 16 | | | | | | | | | | | | |
|----------|-----|-----|-----|-----|----|----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 6.0 | 9.0 | 10 | 13 | 16 | 16 | 18 | | | | | | | | | | | | |
| k | 3.0 | 4.0 | 4.5 | 5.5 | 7 | 7 | 9 | | | | | | | | | | | | |
| s | 2 | 2.5 | 3 | 4 | 5 | 5 | 6 | | | | | | | | | | | | |
| Thread | M3 | M4 | M5 | M6 | M6 | M8 | M10 | | | | | | | | | | | | |
| length/d | 4.0 | 5.0 | 6.0 | 8.0 | 10 | 10 | 12 | | | | | | | | | | | | |
| 4 | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | | | | | |
| 5 | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | | | | | |
| 6 | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | | | | |
| 8 | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | | |
| 10 | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | | |
| 12 | | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | |
| 14 | | ●◆ | ●◆ | | | | | | | | | | | | | | | | |
| 16 | | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | |
| 20 | | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | | | | |
| 25 | ● | ●◆ | ●◆ | | | | | | | | | | | | | | | | |
| 30 | | ●◆ | ●◆ | | | | | | | | | | | | | | | | |

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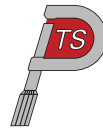
SCHLAUCHSCHELLEN MIT SCHNECKENANTRIEB, FORM A DIN 3017



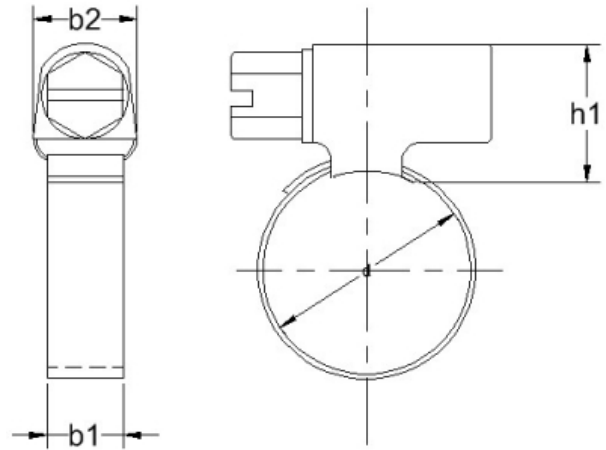
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|---------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
| b1 | 9 | 9 | 12 | 9 | 12 | 9 | 12 | 9 | 12 | 9 | 12 | 9 | 12 | 9 | 12 | 9 | 12 |
| b2 | 14 | 14 | 20 | 14 | 20 | 14 | 20 | 14 | 20 | 14 | 20 | 14 | 20 | 14 | 20 | 14 | 20 |
| h1 | 14 | 14 | 16 | 14 | 16 | 14 | 16 | 14 | 16 | 14 | 16 | 14 | 16 | 14 | 46 | 14 | 16 |
| length/dim | 10-16/9 | 12-22/9 | 12-22/12 | 16-27/9 | 16-27/12 | 20-32/9 | 20-32/12 | 25-40/9 | 25-40/12 | 30-45/9 | 30-45/12 | 35-50/9 | 35-50/12 | 40-60/9 | 40-60/12 | 50-70/9 | 50-70/12 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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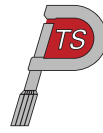
SCHLAUCHSCHELLEN MIT SCHNECKENANTRIEB, FORM A DIN 3017



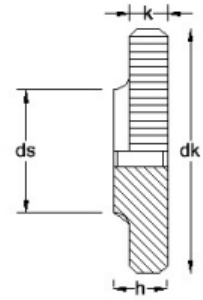
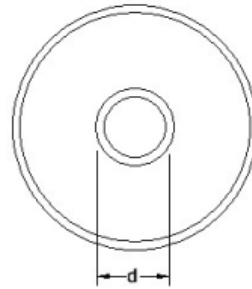
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|----------|----------|-----------|-----------|------------|------------|------------|------------|------------|--|--|--|--|--|--|--|--|--|--|
| b1 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | | | | | | | | | |
| b2 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | | | | | | | | | | |
| h1 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | | | | | | | | | | |
| length/dim | 60-80/12 | 70-90/12 | 80-100/12 | 90-110/12 | 100-120/12 | 110-130/12 | 120-140/12 | 130-150/12 | 140-160/12 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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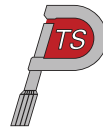
RÄNDELMUTTERN, NIEDRIGE FORM, DIN 467



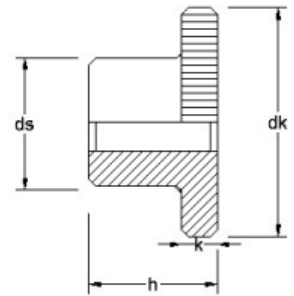
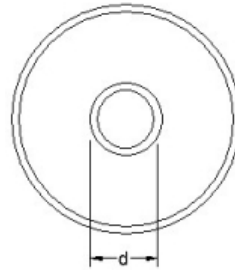
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 11 | 12 | 16 | 20 | 24 | 30 | 36 | | | | | | | | | | | | |
| ds | 5 | 6 | 8 | 10 | 12 | 16 | 20 | | | | | | | | | | | | |
| h | 3 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | | | | | | | | |
| k | 2.5 | 2.5 | 3.5 | 4.0 | 5.0 | 6.0 | 8.0 | | | | | | | | | | | | |
| Pitch | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | | | | | | | | | | | | |
| length/dim | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |

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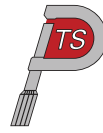
RÄNDELMUTTERN, HOHE FORM, DIN 466



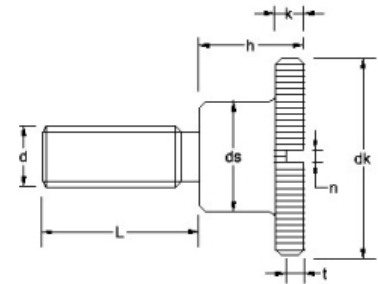
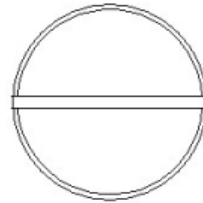
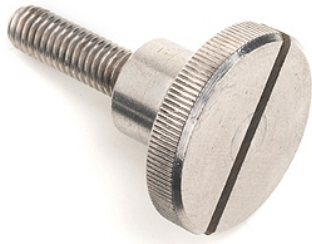
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| dk | 9 | 11 | 12 | 16 | 20 | 24 | 30 | 36 | | | | | | | | | | |
| ds | 4.5 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | | | | | | | | | | |
| h | 5.3 | 6.5 | 7.5 | 9.5 | 11.5 | 15.0 | 18.0 | 23.0 | | | | | | | | | | |
| k | 2.0 | 2.5 | 2.5 | 3.5 | 4.0 | 5.0 | 6.0 | 8.0 | | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |

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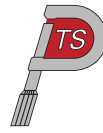
RÄNDELSCHRAUBEN, HOHE FORM, MIT SCHLITZ, DIN 465



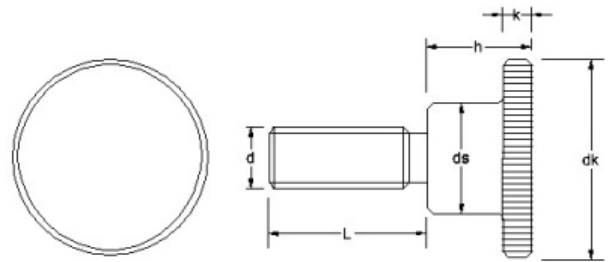
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 12 | 16 | 20 | 24 | | | | | | | | | | | | | | | | |
| ds | 6 | 8 | 10 | 12 | | | | | | | | | | | | | | | | |
| h | 7.5 | 9.5 | 11.5 | 15.0 | | | | | | | | | | | | | | | | |
| k | 2.5 | 3.5 | 4.0 | 5.0 | | | | | | | | | | | | | | | | |
| n | 0.8 | 1.0 | 1.2 | 1.6 | | | | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | | | | |
| t (min) | 1.8 | 2.2 | 2.8 | 3.5 | | | | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | | | | | | | | | | | | | | | | |

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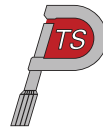
RÄNDELSCHRAUBEN, HOHE FORM, DIN 464



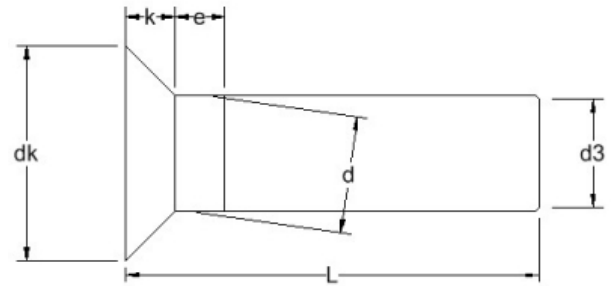
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 12 | 16 | 20 | 24 | 30 | 36 | | | | | | | | | | | | | |
| ds | 6 | 8 | 10 | 12 | 16 | 20 | | | | | | | | | | | | | |
| h | 7.5 | 9.5 | 11.5 | 15.0 | 18.0 | 23.0 | | | | | | | | | | | | | |
| k | 2.5 | 3.5 | 4.0 | 5.0 | 6.0 | 8.0 | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | | |
| 4 | ● | | | | | | | | | | | | | | | | | | |
| 5 | ● | ● | | | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 30 | | ● | | ● | ● | ● | | | | | | | | | | | | | |

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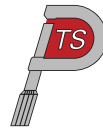
SENKNIETEN DIN 661



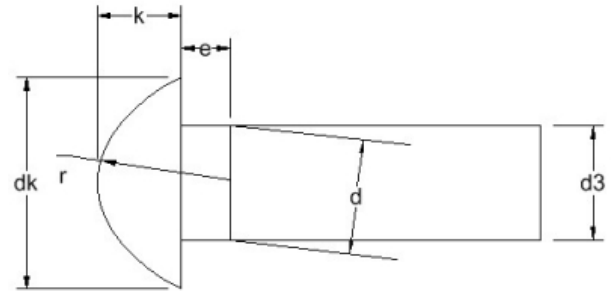
Material Grades: A2: ●

| d3 | 1.87 | 2.87 | 3.87 | 4.82 | 5.82 | | | | | | | | | | | | | |
|------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 3.5 | 5.2 | 7 | 8.8 | 10.5 | | | | | | | | | | | | | |
| e | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | | | | | | | | | | | | | |
| k | 1.0 | 1.4 | 2.0 | 2.5 | 3.0 | | | | | | | | | | | | | |
| length/dim | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 14 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 18 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 22 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 28 | | | ● | ● | ● | | | | | | | | | | | | | |
| 30 | | | ● | ● | ● | | | | | | | | | | | | | |
| 35 | | | ● | ● | ● | | | | | | | | | | | | | |
| 40 | | | | ● | ● | | | | | | | | | | | | | |
| 45 | | | | | ● | | | | | | | | | | | | | |
| 50 | | | | | ● | | | | | | | | | | | | | |

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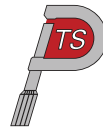
HALBRUNDNIETEN DIN 660



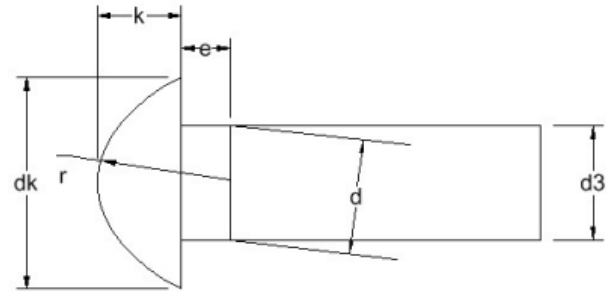
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d3 | 1.87 | 2.87 | 3.87 | 4.82 | 5.82 | | | | | | | | | | | | | | |
| dk | 3.5 | 5.2 | 7 | 8.8 | 10.5 | | | | | | | | | | | | | | |
| e | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | | | | | | | | | | | | | | |
| k | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | | | | | | | | | | | | | | |
| r | 1.9 | 2.8 | 3.8 | 4.6 | 5.7 | | | | | | | | | | | | | | |
| length/dim | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 22 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 28 | | | ●▲ | ▲ | ●▲ | | | | | | | | | | | | | | |
| 30 | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 35 | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 40 | | | | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 45 | | | | | ●▲ | | | | | | | | | | | | | | |

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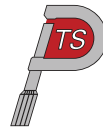
HALBRUNDNIETEN DIN 660



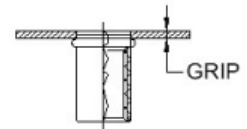
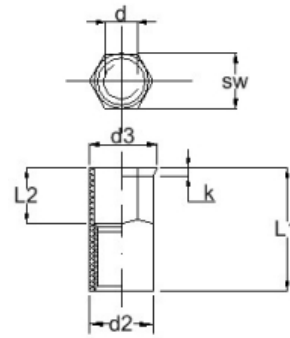
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|
| d3 | 1.87 | 2.87 | 3.87 | 4.82 | 5.82 | | | | | | | | | | | | | | | |
| dk | 3.5 | 5.2 | 7 | 8.8 | 10.5 | | | | | | | | | | | | | | | |
| e | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | | | | | | | | | | | | | | | |
| k | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | | | | | | | | | | | | | | | |
| r | 1.9 | 2.8 | 3.8 | 4.6 | 5.7 | | | | | | | | | | | | | | | |
| length/dim | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | ● ▲ |

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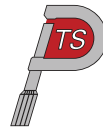
EINNIETMUTTERN MIT KLEINEM SENKKOPF, TEILSECHSKANTSCHAFT OFFEN



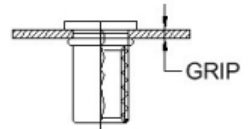
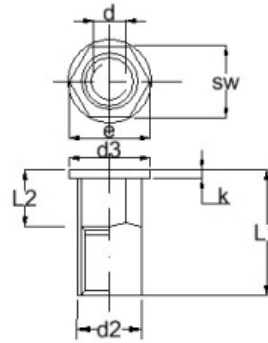
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d2 | 6 | 7 | 9 | 11 | 12.9 | | | | | | | | | | | | | | |
| d3 | 7 | 8 | 10 | 12 | 14 | | | | | | | | | | | | | | |
| k | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | | | | | | | | | | | | | | |
| L1 | 12 | 14 | 16 | 17 | 20.5 | | | | | | | | | | | | | | |
| L2 | 6 | 7.5 | 8 | 8.5 | 9 | | | | | | | | | | | | | | |
| Shear | 2940 | 3820 | 3430 | 4900 | 5000 | | | | | | | | | | | | | | |
| SW | 6 | 7 | 9 | 11 | 13 | | | | | | | | | | | | | | |
| Tensile | 8230 | 11760 | 21570 | 24510 | 47070 | | | | | | | | | | | | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | | | |
| 12 | ● | | | | | | | | | | | | | | | | | | |
| 14 | | ● | | | | | | | | | | | | | | | | | |
| 16 | | | ● | | | | | | | | | | | | | | | | |
| 17 | | | | ● | | | | | | | | | | | | | | | |
| 20.5 | | | | | ● | | | | | | | | | | | | | | |

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FLAKO-EINNIETMUTTERN, TEILSECHSKANTSCHAFT OFFEN

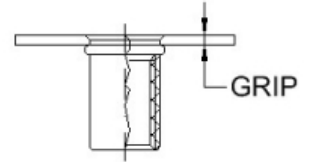
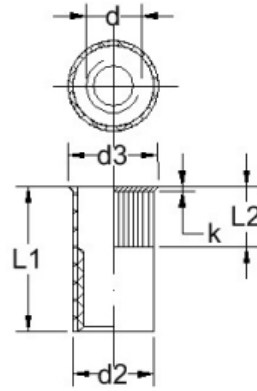


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d2 | 6 | 7 | 9 | 11 | 12.9 | | | | | | | | | | | | | |
| d3 | 9.3 | 10.3 | 12.3 | 14.3 | 16.3 | | | | | | | | | | | | | |
| k | 1 | 1 | 1.5 | 1.5 | 2 | | | | | | | | | | | | | |
| L1 | 11.5 | 13.5 | 15.5 | 17.5 | 22 | | | | | | | | | | | | | |
| L2 | 6 | 7.5 | 8 | 8.5 | 9.7 | | | | | | | | | | | | | |
| Shear | 2640 | 3620 | 4700 | 6860 | 8620 | | | | | | | | | | | | | |
| SW | 6 | 7 | 9 | 11 | 13 | | | | | | | | | | | | | |
| Tensile | 9800 | 12740 | 21570 | 37260 | 47070 | | | | | | | | | | | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | | |
| 11.5 | ● | | | | | | | | | | | | | | | | | |
| 13.5 | | ● | | | | | | | | | | | | | | | | |
| 15.5 | | | ● | | | | | | | | | | | | | | | |
| 17.5 | | | | ● | | | | | | | | | | | | | | |
| 22 | | | | | ● | | | | | | | | | | | | | |

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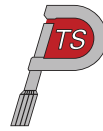
EINNIETMUTTERN MIT KLEINEM SENKKOPF, RUNDSCHAFT, OFFEN GERÄNDEL



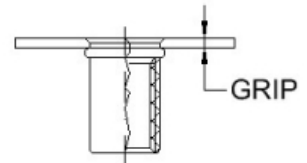
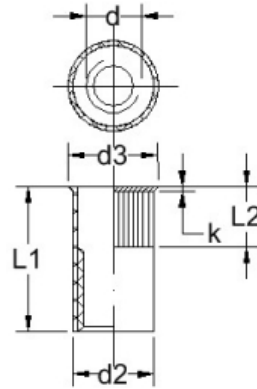
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | |
|------------|------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d2 | 5.9 | 6.9 | 8.9 | 10.9 | 12.9 | | | | | | | | | | | | | | | |
| d3 | 7 | 8 | 10 | 12 | 14.5 | | | | | | | | | | | | | | | |
| k | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | |
| L1 | 10 | 11.5 | 14 | 15.5 | 19.5 | | | | | | | | | | | | | | | |
| L2 | 5.5 | 5.5 | 6.5 | 7.5 | 9 | | | | | | | | | | | | | | | |
| Shear | 2940 | 4020 | 5190 | 5390 | 5880 | | | | | | | | | | | | | | | |
| Tensile | 6860 | 11760 | 18630 | 25490 | 34320 | | | | | | | | | | | | | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | | | | |
| 10 | ● | | | | | | | | | | | | | | | | | | | |
| 11.5 | | ● | | | | | | | | | | | | | | | | | | |
| 14 | | | ● | | | | | | | | | | | | | | | | | |
| 15.5 | | | | ● | | | | | | | | | | | | | | | | |
| 19.5 | | | | | ● | | | | | | | | | | | | | | | |

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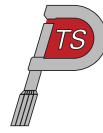
SEKO-EINNIETMUTTERN, RUNDSCHAFT OFFEN, GERÄNDEL



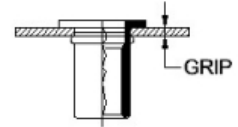
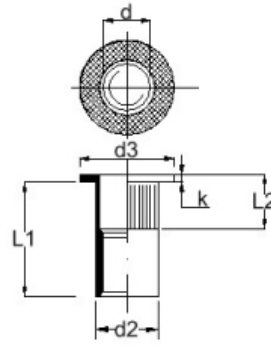
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d2 | 5.9 | 6.9 | 8.9 | 10.9 | 12.9 | | | | | | | | | | | | | | |
| d3 | 9 | 10 | 12 | 14 | 16 | | | | | | | | | | | | | | |
| k | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | | | | | | | | | | | | | | |
| L1 | 10 | 11.5 | 14 | 15.5 | 19.5 | | | | | | | | | | | | | | |
| L2 | 5.5 | 5.5 | 6.5 | 7.5 | 9 | | | | | | | | | | | | | | |
| Shear | 3720 | 4020 | 5490 | 7640 | 8040 | | | | | | | | | | | | | | |
| Tensile | 10100 | 11760 | 20590 | 27450 | 32360 | | | | | | | | | | | | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | | | |
| 11.5 | ● | | | | | | | | | | | | | | | | | | |
| 13.5 | | ● | | | | | | | | | | | | | | | | | |
| 16 | | | ● | | | | | | | | | | | | | | | | |
| 19 | | | | ● | | | | | | | | | | | | | | | |
| 21 | | | | | ● | | | | | | | | | | | | | | |

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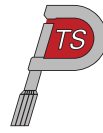
FLAKO-EINNIETMUTTERN, RUNDSCHAFT OFFEN, GERÄNDELT



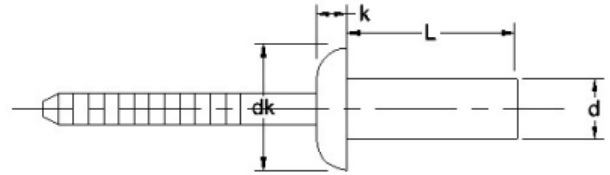
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|
| d2 | 4.9 | 5.9 | 6.9 | 8.9 | 10.9 | 12.9 | 14.9 | | | | | | | | | | | |
| d3 | 7 | 9 | 10 | 13 | 16 | 19 | 23 | | | | | | | | | | | |
| k | 0.9 | 1 | 1 | 1.5 | 1.5 | 2 | 2 | | | | | | | | | | | |
| L1 | 10 | 11.5 | 15 | 16 | 18.5 | 22 | 23 | | | | | | | | | | | |
| L2 | 5.5 | 7.5 | 8.0 | 10 | 11 | 13 | 12 | | | | | | | | | | | |
| Shear | 1760 | 3920 | 4510 | 4900 | 6860 | 7840 | 9800 | | | | | | | | | | | |
| Tensile | 5390 | 6860 | 11760 | 18630 | 27450 | 29410 | 52950 | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | | |
| 10 | ● | ● | | | | | | | | | | | | | | | | |
| 11.5 | | ● | | | | | | | | | | | | | | | | |
| 12 | | | ● | | | | | | | | | | | | | | | |
| 14.5 | | | | ● | | | | | | | | | | | | | | |
| 15 | | | ● | | | | | | | | | | | | | | | |
| 16 | | | | ● | ● | | | | | | | | | | | | | |
| 17 | | | | | | ● | | | | | | | | | | | | |
| 18.5 | | | | | ● | | | | | | | | | | | | | |
| 22 | | | | | | ● | | | | | | | | | | | | |
| 23 | | | | | | | ● | | | | | | | | | | | |

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DICHTBLINDNIETEN MIT FLACHKOPF UND GERILLEM NIETDORN ISO 16585

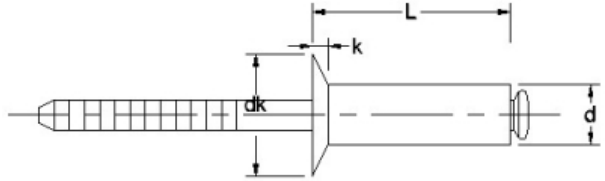


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 6.7 | 8.4 | 10.1 | 13.4 | | | | | | | | | | | | | | | |
| k | 1.3 | 1.7 | 2 | 2.7 | | | | | | | | | | | | | | | |
| Shear | 2000 | 3000 | 4000 | 6000 | | | | | | | | | | | | | | | |
| Tensile | 2200 | 3500 | 4400 | 8000 | | | | | | | | | | | | | | | |
| length/dim | 3.2 | 4.0 | 4.8 | 6.4 | | | | | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 9.5 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 14 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 20 | | | ● | ● | | | | | | | | | | | | | | | |

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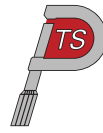
BLINDNIETEN MIT SENKKOPF UND GERILTEM NIETDORN ISO 15984



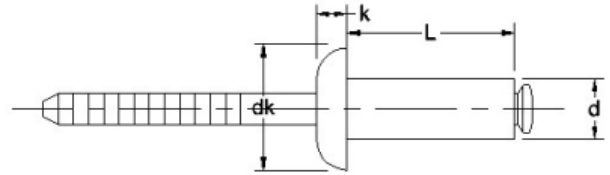
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 6.3 | 6.7 | 8.4 | 10.1 | 10.5 | | | | | | | | | | | | | | |
| k | 1.3 | 1.3 | 1.7 | 2 | 2.1 | | | | | | | | | | | | | | |
| Shear | 1800 | 1900 | 2700 | 4000 | 4700 | | | | | | | | | | | | | | |
| Tensile | 2200 | 2500 | 3500 | 5000 | 5800 | | | | | | | | | | | | | | |
| length/dim | 3.0 | 3.2 | 4.0 | 4.8 | 5.0 | | | | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 14 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 18 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 21 | | | | ● | | | | | | | | | | | | | | | |
| 25 | | | | ● | ● | | | | | | | | | | | | | | |
| 30 | | | | ● | ● | | | | | | | | | | | | | | |

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BLINDNIETEN MIT FLACHKOPF UND GERILTEM NIETDORN ISO 15983



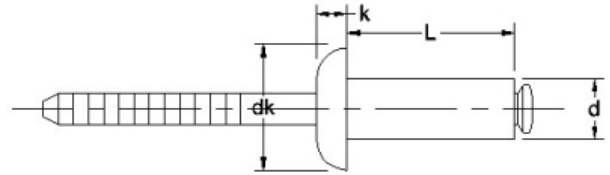
Material Grades: A2: ● A4: ▲

| dk (max) | 5 | 6.3 | 6.7 | 8.4 | 10.1 | 10.5 | 12 | 13 | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|
| k | 0.55 | 1.3 | 1.3 | 1.7 | 2 | 2.1 | 2.5 | 2.6 | | | | | | | | | |
| Shear | 1000 | 1800 | 1900 | 2700 | 4000 | 4700 | 5700 | 6500 | | | | | | | | | |
| Tensile | 1500 | 2200 | 2500 | 3500 | 5000 | 5800 | 7500 | 8850 | | | | | | | | | |
| length/dim | 2.4 | 3.0 | 3.2 | 4.0 | 4.8 | 5.0 | 6.0 | 6.4 | | | | | | | | | |
| 4 | ● | | | | | | | | | | | | | | | | |
| 6 | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 8 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | |
| 10 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | | | | |
| 12 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 14 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 15 | | | | | | | | ● | | | | | | | | | |
| 16 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 18 | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 20 | | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 22 | | | | | | ● | | ● | | | | | | | | | |
| 24 | | | | | ●▲ | ● | | | | | | | | | | | |
| 25 | | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 26 | | | | | ● | ● | | | | | | | | | | | |
| 30 | | | | | ●▲ | ●▲ | ● | ● | | | | | | | | | |
| 35 | | | | | ● | ● | ● | ● | | | | | | | | | |

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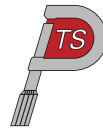
BLINDNIETEN MIT FLACHKOPF UND GERILTEM NIETDORN ISO 15983



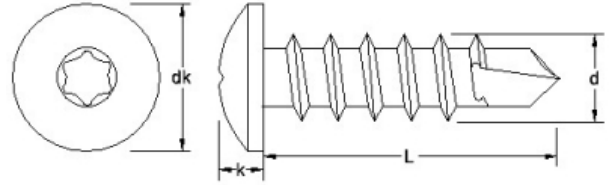
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 5 | 6.3 | 6.7 | 8.4 | 10.1 | 10.5 | 12 | 13 | | | | | | | | | | |
| k | 0.55 | 1.3 | 1.3 | 1.7 | 2 | 2.1 | 2.5 | 2.6 | | | | | | | | | | |
| Shear | 1000 | 1800 | 1900 | 2700 | 4000 | 4700 | 5700 | 6500 | | | | | | | | | | |
| Tensile | 1500 | 2200 | 2500 | 3500 | 5000 | 5800 | 7500 | 8850 | | | | | | | | | | |
| length/dim | 2.4 | 3.0 | 3.2 | 4.0 | 4.8 | 5.0 | 6.0 | 6.4 | | | | | | | | | | |
| 40 | | | | | ● | ●▲ | ● | ● | | | | | | | | | | |

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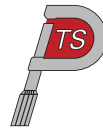
BOHRSCHRAUBEN MIT LINSENKOPF, DIN 7504 FORM M, FÜR WEICHMETALLE, MIT INNENVIELZAHN



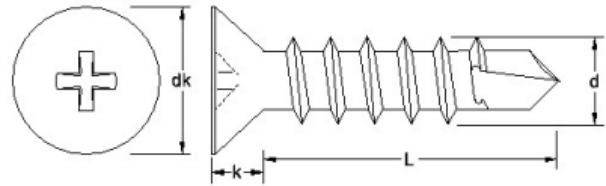
Material Grades: A2: ●

| dk (max) | 6.9 | 7.5 | 8.2 | 9.5 | 12 | | | | | | | | | | | | | |
|------------|-----|-----|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 2.6 | 2.8 | 3.05 | 3.55 | 4.00 | | | | | | | | | | | | | |
| length/dim | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 | | | | | | | | | | | | | |
| 9.5 | ● | | | | | | | | | | | | | | | | | |
| 13 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 19 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 22 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 32 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 38 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 45 | | | | ● | ● | | | | | | | | | | | | | |
| 50 | | | | ● | ● | | | | | | | | | | | | | |
| 60 | | | | ● | ● | | | | | | | | | | | | | |
| 70 | | | | ● | | | | | | | | | | | | | | |

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BOHRSCHRAUBEN MIT SENKKOPF, DIN 7504 FORM 0, Für WEICHMETALLE, KREUZSCHLITZ - POZ

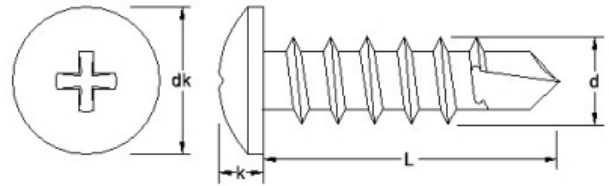


Material Grades: A2: ●

| dk (max) | 7 | 7.5 | 8 | 9.5 | 10.3 | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 2.6 | 2.8 | 3.1 | 3.7 | 4 | | | | | | | | | | | | | |
| length/dim | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 | | | | | | | | | | | | | |
| 13 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 19 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 22 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 32 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 38 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 45 | | | | ● | ● | | | | | | | | | | | | | |
| 50 | | | | ● | ● | | | | | | | | | | | | | |
| 60 | | | | | ● | | | | | | | | | | | | | |

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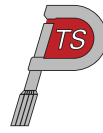
BOHRSCHRAUBEN MIT LINSENKOPF, DIN 7504 FORM M, FÜR WEICHMETALLE, KREUZSCHLITZ - P



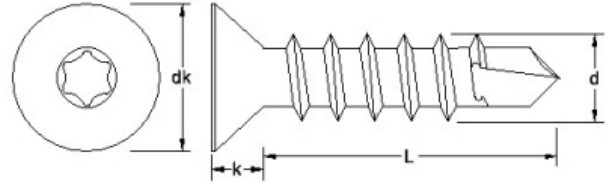
Material Grades: A2: ●

| dk (max) | 5.5 | 6.9 | 7.5 | 8.2 | 9.5 | 11 | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 2.4 | 2.6 | 2.8 | 3.1 | 3.7 | 4 | | | | | | | | | | | | |
| length/dim | 2.9 | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 | | | | | | | | | | | | |
| 9.5 | ● | ● | | | | | | | | | | | | | | | | |
| 13 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 19 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 22 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 32 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 38 | | | | ● | ● | ● | | | | | | | | | | | | |
| 45 | | | | | ● | ● | | | | | | | | | | | | |
| 50 | | | | | ● | ● | | | | | | | | | | | | |
| 60 | | | | | ● | ● | | | | | | | | | | | | |
| 70 | | | | | ● | | | | | | | | | | | | | |

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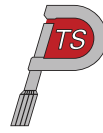
BOHRSCHRAUBEN MIT SENKKOPF, DIN 7504 FORM 0, FÜR WEICHMETALLE, MIT INNENVIELZAHN



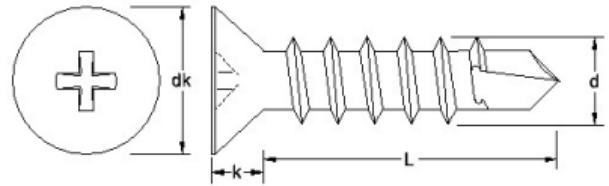
Material Grades: A2: ●

| dk (max) | 7.3 | 7.5 | 8.4 | 9.3 | 10.3 | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 2.1 | 2.3 | 2.5 | 3 | 3.4 | | | | | | | | | | | | | |
| length/dim | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 | | | | | | | | | | | | | |
| 13 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 19 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 22 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 32 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 38 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 45 | | | | ● | ● | | | | | | | | | | | | | |
| 50 | | | | ● | ● | | | | | | | | | | | | | |
| 60 | | | | | ● | | | | | | | | | | | | | |

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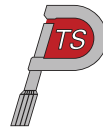
BOHRSCHRAUBEN MIT SENKKOPF, DIN 7504 FORM 0, FÜR WEICHMETALLE, KREUZSCHLITZ - PH



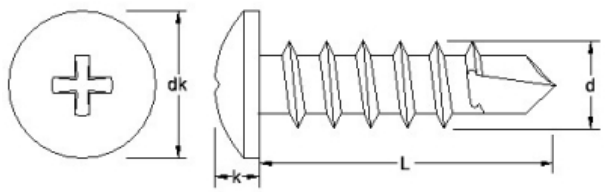
Material Grades: A2: ●

| dk (max) | 7 | 7.5 | 8 | 9.5 | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 2.6 | 2.9 | 3.1 | 3.7 | | | | | | | | | | | | | | |
| length/dim | 3.5 | 3.9 | 4.2 | 4.8 | | | | | | | | | | | | | | |
| 13 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 19 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 22 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 32 | | ● | ● | ● | | | | | | | | | | | | | | |
| 38 | | ● | ● | ● | | | | | | | | | | | | | | |
| 45 | | | | ● | | | | | | | | | | | | | | |
| 50 | | | | ● | | | | | | | | | | | | | | |

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BOHRSCHRAUBEN MIT LINSENKOPF, DIN 7504 FORM M, FÜR WEICHMETALLE, KREUZSCHLITZ

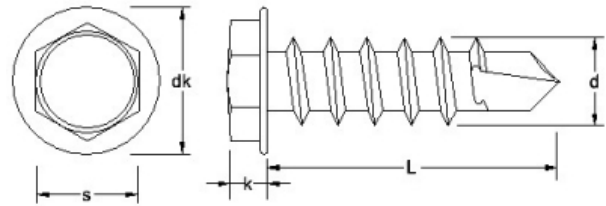


Material Grades: A2: ●

| dk (max) | 5.5 | 6.9 | 7.5 | 8.2 | 9.5 | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 2.4 | 2.6 | 2.8 | 3.1 | 3.7 | | | | | | | | | | | | |
| length/dim | 2.9 | 3.5 | 3.9 | 4.2 | 4.8 | | | | | | | | | | | | |
| 9.5 | ● | | | | | | | | | | | | | | | | |
| 13 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | | | | | | | | | | | | |
| 19 | | ● | ● | ● | ● | | | | | | | | | | | | |
| 22 | | ● | ● | ● | ● | | | | | | | | | | | | |
| 25 | | ● | ● | ● | ● | | | | | | | | | | | | |
| 32 | | | ● | ● | ● | | | | | | | | | | | | |
| 38 | | | ● | ● | ● | | | | | | | | | | | | |
| 45 | | | | | ● | | | | | | | | | | | | |
| 50 | | | | | ● | | | | | | | | | | | | |
| 60 | | | | | ● | | | | | | | | | | | | |
| 70 | | | | | ● | | | | | | | | | | | | |

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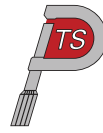
BOHRSCHRAUBEN MIT SECHSKANTKOPF UND BUND, DIN 7504 FORM K, FÜR WEICHMETALLE



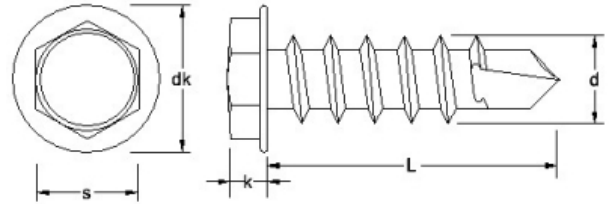
Material Grades: A2: ●

| dk (max) | 8.3 | 8.3 | 8.8 | 10.5 | 11 | 13.5 | | | | | | | | | | | | | |
|------------|-----|-----|-----|------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 3.4 | 3.4 | 4.1 | 4.3 | 5.4 | 5.9 | | | | | | | | | | | | | |
| s | 5.5 | 5.5 | 7 | 8 | 8 | 10 | | | | | | | | | | | | | |
| length/dim | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 | 6.3 | | | | | | | | | | | | | |
| 9.5 | ● | | | | | | | | | | | | | | | | | | |
| 13 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 19 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 22 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 28 | | | | | ● | | | | | | | | | | | | | | |
| 30 | | | | | ● | | | | | | | | | | | | | | |
| 32 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 35 | | | | ● | ● | | | | | | | | | | | | | | |
| 38 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 45 | | | | ● | ● | ● | | | | | | | | | | | | | |
| 50 | | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 60 | | | | ● | ● | ● | | | | | | | | | | | | | |
| 70 | | | | ● | ● | | | | | | | | | | | | | | |
| 75 | | | | | | ● | | | | | | | | | | | | | |
| 80 | | | | | ● | | | | | | | | | | | | | | |

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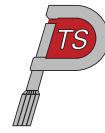
BOHRSCHRAUBEN MIT SECHSKANTKOPF UND BUND, DIN 7504 FORM K, FÜR WEICHMETALLE



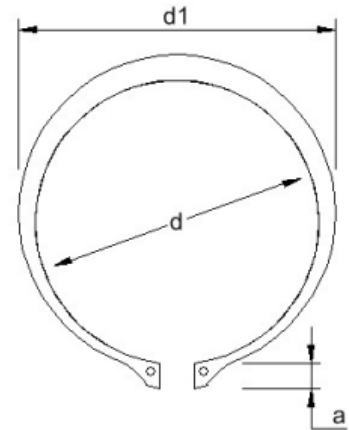
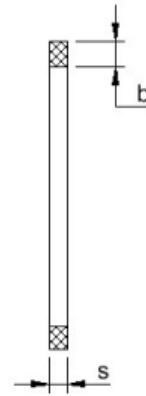
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 8.3 | 8.3 | 8.8 | 10.5 | 11 | 13.5 | | | | | | | | | | | | |
| k (max) | 3.4 | 3.4 | 4.1 | 4.3 | 5.4 | 5.9 | | | | | | | | | | | | |
| s | 5.5 | 5.5 | 7 | 8 | 8 | 10 | | | | | | | | | | | | |
| length/dim | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 | 6.3 | | | | | | | | | | | | |
| 90 | | | | ● | ● | ● | | | | | | | | | | | | |
| 100 | | | | | ● | ● | | | | | | | | | | | | |
| 110 | | | | | ● | ● | | | | | | | | | | | | |
| 120 | | | | | ● | | | | | | | | | | | | | |
| 150 | | | | | | ● | | | | | | | | | | | | |

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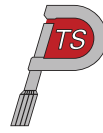
SICHERUNGSRINGES FÜR WELLEN, DIN 471



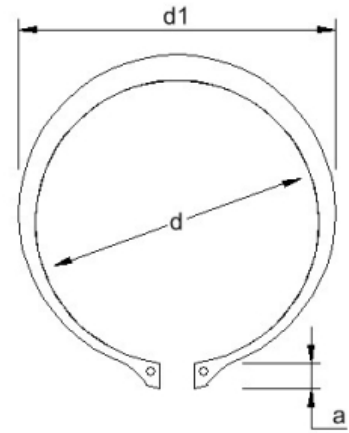
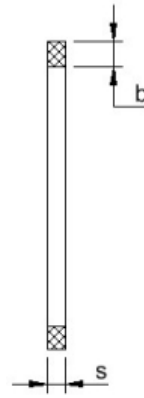
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| a (max) | 1.9 | 2.2 | 2.5 | 2.7 | 3.1 | 3.2 | | 3.3 | 3.3 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 3.9 |
| b | 0.8 | 0.9 | 1.1 | 1.3 | 1.4 | 1.5 | | 1.8 | 1.8 | 1.8 | 1.9 | 2.1 | 2.2 | 2.2 | 2.3 | 2.5 | 2.5 |
| d | 2.7 | 3.7 | 4.7 | 5.6 | 6.5 | 7.4 | | 9.3 | 10.2 | 11 | 11.9 | 12.9 | 13.8 | 14.7 | 15.7 | 16.5 | 17.5 |
| s | 0.4 | 0.4 | 0.6 | 0.7 | 0.8 | 0.8 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1.2 | 1.2 |
| length/dim | 3MM | 4MM | 5MM | 6MM | 7MM | 8MM | 9MM | 10MM | 11MM | 12MM | 13MM | 14MM | 15MM | 16MM | 17MM | 18MM | 19MM |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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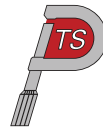
SICHERUNGRINGES FÜR WELLEN, DIN 471



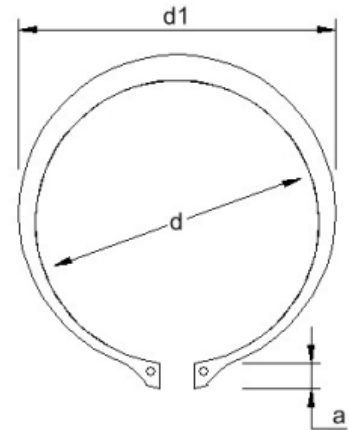
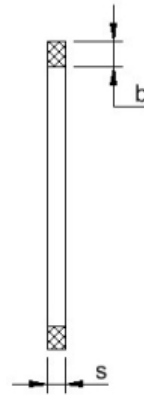
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| a (max) | 4 | 4.1 | 4.2 | 4.3 | 4.4 | 4.4 | 4.4 | 4.6 | 4.7 | 4.8 | 5 | 5.2 | 5.4 | 5.6 | 5.6 | 5.8 | 5.9 |
| b | 2.6 | 2.7 | 2.8 | 2.9 | 3 | 3 | 3.1 | 3.1 | 3.2 | 3.4 | 3.5 | 3.6 | 3.8 | 3.9 | 4 | 4.2 | 4.3 |
| d | 18.5 | 19.5 | 20.5 | 21.4 | 22.2 | 23.2 | 24.2 | 25.1 | 25.9 | 26.9 | 27.9 | 29.6 | 31.5 | 32.2 | 33.2 | 35.2 | 36 |
| s | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.75 | 1.75 | 1.75 |
| length/dim | 20MM | 21MM | 22MM | 23MM | 24MM | 25MM | 26MM | 27MM | 28MM | 29MM | 30MM | 32MM | 34MM | 35MM | 36MM | 38MM | 39MM |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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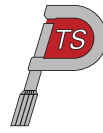
SICHERUNGRINGES FÜR WELLEN, DIN 471



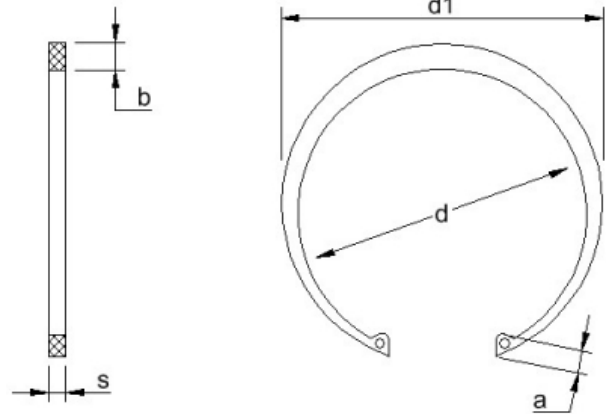
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|--|
| a (max) | 6 | 6.5 | 6.7 | 6.9 | 6.9 | 7 | 7.2 | 7.4 | 7.8 | 8.1 | 8.4 | 8.6 | 8.7 | 8.8 | 9.4 | 9.6 | |
| b | 4.4 | 4.5 | 4.7 | 5 | 5.1 | 5.2 | 5.4 | 5.8 | 6.3 | 6.6 | 7.0 | 7.4 | 7.8 | 8.2 | 8.6 | 9.0 | |
| d | 36.5 | 38.5 | 41.5 | 44.5 | 45.8 | 47.8 | 50.8 | 55.8 | 60.8 | 65.5 | 70.5 | 74.5 | 79.5 | 84.5 | 89.5 | 94.5 | |
| s | 1.75 | 1.75 | 1.75 | 1.75 | 2 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 | 3 | 3 | 3 | 3 | |
| length/dim | 40MM | 42MM | 45MM | 48MM | 50MM | 52MM | 55MM | 60MM | 65MM | 70MM | 75MM | 80MM | 85MM | 90MM | 95MM | 100MM | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |

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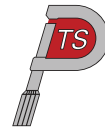
SICHERUNGSRINGE FÜR BOHRUNGEN, DIN 472



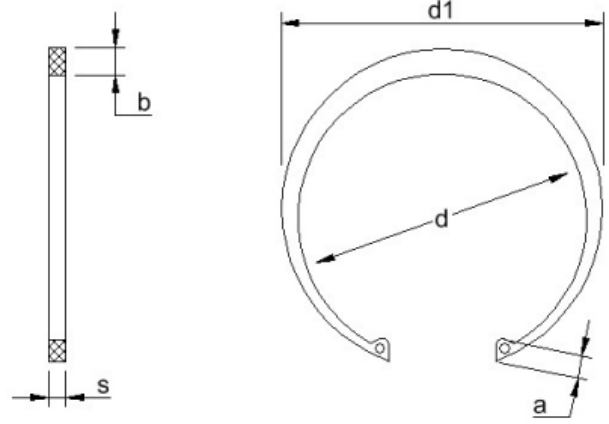
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| a (max) | 2.4 | | 3.2 | 3.3 | 3.4 | 3.6 | 3.7 | 3.7 | 3.8 | 3.9 | 4.1 | 4.1 | 4.2 | 4.2 | 4.2 | 4.3 | 4.4 |
| b | 1.1 | | 1.4 | 1.5 | 1.7 | 1.8 | 1.9 | 2 | 2 | 2.1 | 2.2 | 2.2 | 2.3 | 2.5 | 2.5 | 2.5 | 2.6 |
| d1 | 8.7 | | 10.8 | 11.8 | 13 | 14.1 | 15.1 | 16.2 | 17.3 | 18.3 | 19.5 | 20.5 | 21.5 | 22.5 | 23.5 | 24.6 | 25.9 |
| s | 0.8 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1.2 |
| length/dim | 8MM | 9MM | 10MM | 11MM | 12MM | 13MM | 14MM | 15MM | 16MM | 17MM | 18MM | 19MM | 20MM | 21MM | 22MM | 23MM | 24MM |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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SICHERUNGSRINGE FÜR BOHRUNGEN, DIN 472



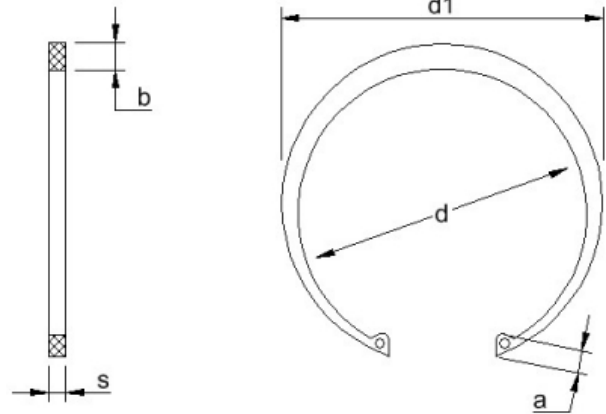
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| a (max) | 4.5 | 4.7 | 4.7 | 4.8 | 4.8 | 4.8 | 5.2 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.5 | 5.5 | 5.6 | 5.8 | 5.9 |
| b | 2.7 | 2.8 | 2.8 | 2.9 | 3.0 | 3.0 | 3.2 | 3.2 | 3.3 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 |
| d1 | 26.9 | 27.9 | 28.9 | 30.1 | 31.1 | 32.1 | 33.4 | 34.4 | 35.5 | 36.5 | 37.8 | 38.8 | 39.8 | 40.8 | 42 | 43.5 | 44.5 |
| s | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.75 | 1.75 |
| length/dim | 25MM | 26MM | 27MM | 28MM | 29MM | 30MM | 31MM | 32MM | 33MM | 34MM | 35MM | 36MM | 37MM | 38MM | 39MM | 40MM | 41MM |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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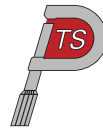
SICHERUNGSRINGE FÜR BOHRUNGEN, DIN 472



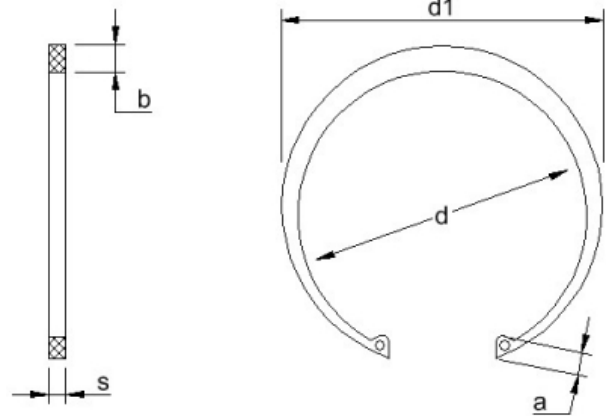
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| a (max) | 5.9 | 5.9 | 6.0 | 6.2 | 6.4 | 6.4 | 6.5 | 6.7 | 6.8 | 6.9 | 7.3 | 7.3 | 7.6 | 7.8 | 7.8 | 7.8 | 7.8 |
| b | 4.1 | 4.2 | 4.2 | 4.3 | 4.4 | 4.5 | 4.6 | 4.7 | 5 | 5.2 | 5.4 | 5.5 | 5.8 | 6.1 | 6.2 | 6.4 | 6.6 |
| d1 | 45.5 | 46.5 | 47.5 | 48.5 | 50.5 | 51.5 | 54.2 | 56.2 | 59.2 | 62.2 | 64.2 | 66.2 | 69.2 | 72.5 | 74.5 | 76.5 | 79.5 |
| s | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 2 | 2 | 2 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| length/dim | 42MM | 43MM | 44MM | 45MM | 47MM | 48MM | 50MM | 52MM | 55MM | 58MM | 60MM | 62MM | 65MM | 68MM | 70MM | 72MM | 75MM |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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SICHERUNGSRINGE FÜR BOHRUNGEN, DIN 472

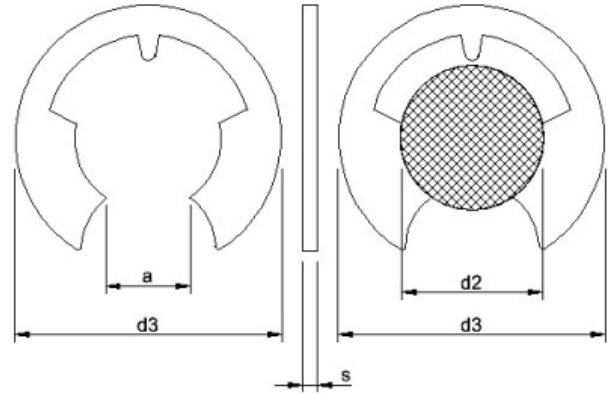


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| a (max) | 8.5 | 8.6 | 8.6 | 8.8 | 9.2 | | | | | | | | | | | | | | |
| b | 7.0 | 7.2 | 7.6 | 8.1 | 8.7 | | | | | | | | | | | | | | |
| d1 | 85.5 | 90.5 | 95.5 | 100.5 | 105.5 | | | | | | | | | | | | | | |
| s | 2.5 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | |
| length/dim | 80MM | 85MM | 90MM | 95MM | 100MM | | | | | | | | | | | | | | |
| | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |

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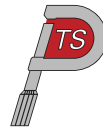
SICHERUNGSSCHEIBEN (HALTESCHEIBEN) FÜR WELLEN, DIN 6799



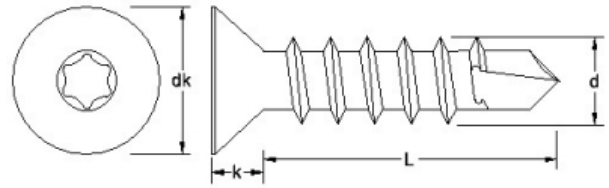
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|--|
| a | 1.01 | 1.28 | 1.61 | 1.94 | 2.70 | 3.34 | 4.11 | 5.26 | 5.84 | 6.52 | 7.63 | 8.32 | 10.45 | 12.61 | 15.92 | 21.88 | |
| d3 (max) | 3.25 | 4.25 | 4.8 | 6.3 | 7.3 | 9.3 | 11.3 | 12.3 | 14.3 | 16.3 | 18.8 | 20.4 | 23.4 | 29.4 | 37.6 | 44.6 | |
| s | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.5 | 1.75 | 2 | |
| length/dim | 1.2MM | 1.5MM | 1.9MM | 2.3MM | 3.2MM | 4.0MM | 5.0MM | 6.0MM | 7.0MM | 8.0MM | 9.0MM | 10MM | 12MM | 15MM | 19MM | 24MM | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |

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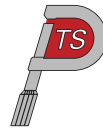
RUNDKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, MIT INNENVIELZAHN - TX



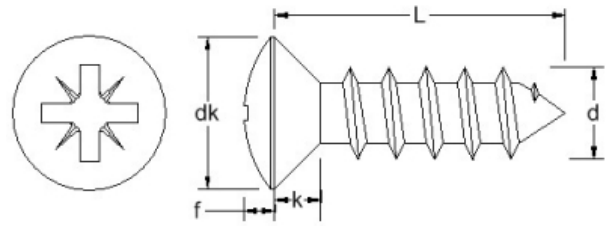
Material Grades: A2: ●

| b (approx) | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | | | | |
|------------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 8 | 9 | 10 | 12 | | | | | | | | | | | | | | |
| k | 2 | 2.25 | 2.5 | 3 | | | | | | | | | | | | | | |
| length/dim | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | | | | |
| 30 | ● | ● | | | | | | | | | | | | | | | | |
| 35 | ● | ● | | | | | | | | | | | | | | | | |
| 40 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 45 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 50 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 55 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 60 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 65 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 70 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 80 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 90 | | | ● | ● | | | | | | | | | | | | | | |
| 100 | | | ● | ● | | | | | | | | | | | | | | |
| 120 | | | | ● | | | | | | | | | | | | | | |
| 140 | | | | ● | | | | | | | | | | | | | | |
| 160 | | | | ● | | | | | | | | | | | | | | |

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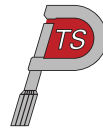
LINSENSENKOPF-SPANPLATTENSCHRAUBEN Gleitbeschichtet, Vollgewinde mit Kreuzsch



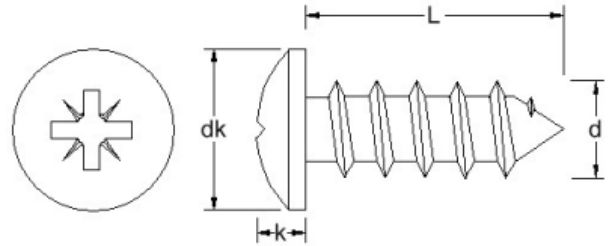
Material Grades: A2: ●

| b (approx)* | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | | |
|-------------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 5.6 | 6.5 | 7.5 | 8.3 | 9.2 | 11 | | | | | | | | | | | | |
| k | 1.65 | 1.93 | 2.2 | 2.35 | 2.5 | 3 | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | | |
| 12/12 | ● | | | | | | | | | | | | | | | | | |
| 16/16 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 20/20 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 25/25 | ● | ● | ● | | ● | ● | | | | | | | | | | | | |
| 30/30 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 35/35 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 40/40 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 45/45 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 50/50 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 60/60 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 65/65 | | | | ● | | | | | | | | | | | | | | |
| 70/70 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 80/80 | | | | | ● | ● | | | | | | | | | | | | |
| 90/90 | | | | | ● | ● | | | | | | | | | | | | |
| 100/100 | | | | | ● | ● | | | | | | | | | | | | |
| 110/110 | | | | | | ● | | | | | | | | | | | | |
| 120/120 | | | | | | ● | | | | | | | | | | | | |

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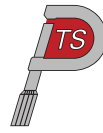
RUNDKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, VOLLGEWINDE MIT KREUZSCHLITZ



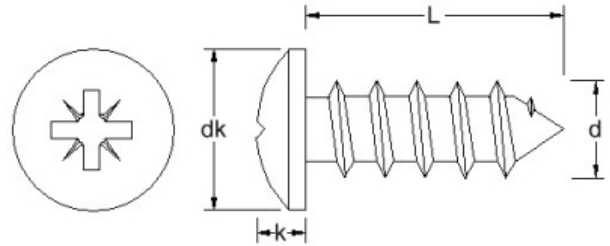
Material Grades: A2: ● A4: ▲

| b (approx)* | 0.6 x L | | | | | | | | | | | | | | | | | |
|-------------|---------|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | | | | | | | | | | | | |
| k | 1.6 | 1.8 | 2.1 | 2.9 | 3.3 | 3.8 | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | | |
| 10/10 | ●▲ | | | | | | | | | | | | | | | | | |
| 12/12 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 13/13 | | | ● | | | | | | | | | | | | | | | |
| 16/16 | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | | | |
| 20/20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 25/25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 30/30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 35/35 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 40/40 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 45/45 | | ●▲ | ●▲ | ● | ● | ●▲ | | | | | | | | | | | | |
| 50/50 | | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 55/55 | | | ● | ● | ●▲ | ● | | | | | | | | | | | | |
| 60/60 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 65/65 | | | ● | ● | ●▲ | ● | | | | | | | | | | | | |
| 70/70 | | | ● | ● | ●▲ | ●▲ | | | | | | | | | | | | |
| 75/75 | | | ● | ● | ●▲ | ●▲ | | | | | | | | | | | | |

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RUNDKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, VOLLGEWINDE MIT KREUZSCHLITZ

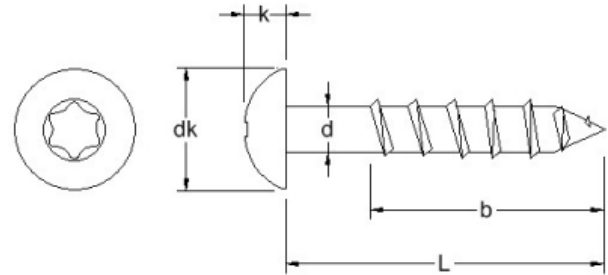


Material Grades: A2: ● A4: ▲

| b (approx)* | 0.6 x L | | | | | | | | | | | | | | | |
|-------------|---------|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | | | | | | | | | | |
| k | 1.6 | 1.8 | 2.1 | 2.9 | 3.3 | 3.8 | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | |
| 80/80 | | | | | ● | ●▲ | | | | | | | | | | |
| 90/90 | | | | | ● | ●▲ | | | | | | | | | | |
| 100/100 | | | | | ● | ●▲ | | | | | | | | | | |
| 110/110 | | | | | | ●▲ | | | | | | | | | | |
| 120/120 | | | | | | ●▲ | | | | | | | | | | |

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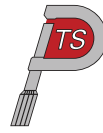
RUNDKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, MIT INNENVIELZAHN - TX



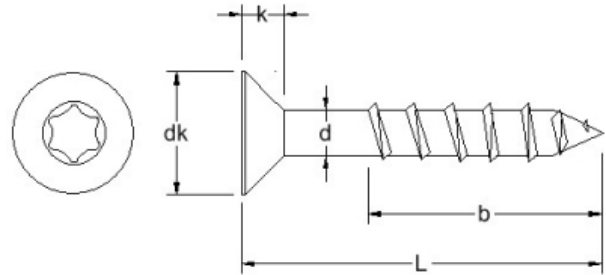
Material Grades: A2: ●

| b (approx)* | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | | | |
|-------------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 7 | 8 | 9 | 10 | 12 | | | | | | | | | | | | | |
| k | 1.8 | 2.1 | 2.9 | 3.3 | 3.8 | | | | | | | | | | | | | |
| length/dim | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | |
| 30 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 35 | ● | ● | | ● | | | | | | | | | | | | | | |
| 40 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 45 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 50 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 60 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 70 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 80 | | | | ● | ● | | | | | | | | | | | | | |
| 90 | | | | ● | ● | | | | | | | | | | | | | |
| 100 | | | | ● | ● | | | | | | | | | | | | | |
| 120 | | | | | ● | | | | | | | | | | | | | |

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SENKKOPF-SPANPLATTENSCHRAUBEN Gleitbeschichtet, mit Innenvielzahn - TX

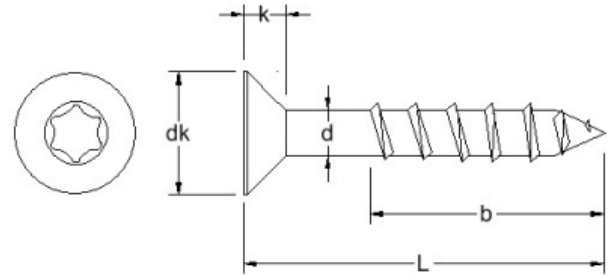


Material Grades: A2: ● A4: ▲

| b (approx) | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|----|--|--|--|--|--|--|--|--|--|
| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | 14 | | | | | | | | | | |
| k | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 3 | 4 | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | 8.0 | 10 | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 35 | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 45 | | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 50 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 60 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 70 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 80 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 90 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 100 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 110 | | | | | | ● | | | | | | | | | | | |
| 120 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 320 | | | | | | | | ● | | | | | | | | | |
| 340 | | | | | | | | ● | | | | | | | | | |
| 360 | | | | | | | | ● | | | | | | | | | |
| 130 | | | | | | ● | | | | | | | | | | | |

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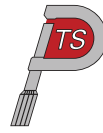
SENKKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, MIT INNENVIELZAHN - TX



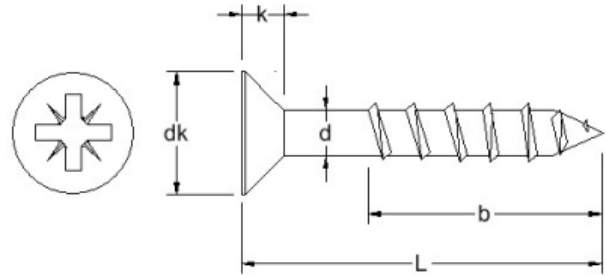
Material Grades: A2: ● A4: ▲

| b (approx) | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|----|--|--|--|--|--|--|--|--|--|
| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | 14 | | | | | | | | | | |
| k | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 3 | 4 | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | 8.0 | 10 | | | | | | | | | |
| 140 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 150 | | | | | | ● | | | | | | | | | | | |
| 160 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 180 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 200 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 220 | | | | | | ● | ●▲ | ●▲ | | | | | | | | | |
| 240 | | | | | | ● | ●▲ | ●▲ | | | | | | | | | |
| 260 | | | | | | ● | ●▲ | ●▲ | | | | | | | | | |
| 280 | | | | | | ● | ●▲ | ●▲ | | | | | | | | | |
| 300 | | | | | | ● | ●▲ | ●▲ | | | | | | | | | |
| 325 | | | | | | | ● | | | | | | | | | | |
| 350 | | | | | | | ● | | | | | | | | | | |
| 375 | | | | | | | ● | ● | | | | | | | | | |

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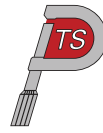
SENKKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, MIT KREUZSCHLITZ - POZIDRIVE



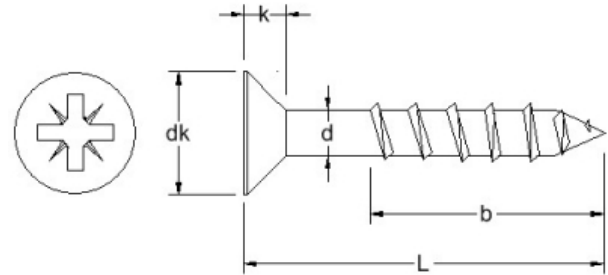
Material Grades: A2: ● A4: ▲

| b (approx) | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | | | | | | | | | | | |
| k | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 3 | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | |
| 25 | ▲ | ●▲ | ●▲ | ▲ | ▲ | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | | | | |
| 35 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 45 | ▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 50 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 55 | | | ● | ●▲ | ●▲ | | | | | | | | | | | | |
| 60 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 65 | | | | | ●▲ | | | | | | | | | | | | |
| 70 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 80 | | | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 90 | | | | | ●▲ | ●▲ | | | | | | | | | | | |
| 100 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 110 | | | | | ●▲ | ●▲ | | | | | | | | | | | |
| 120 | | | | | ●▲ | ●▲ | | | | | | | | | | | |
| 140 | | | | | | ●▲ | | | | | | | | | | | |
| 150 | | | | | | ●▲ | | | | | | | | | | | |

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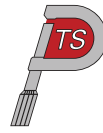
SENKKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, MIT KREUZSCHLITZ - POZIDRIVE



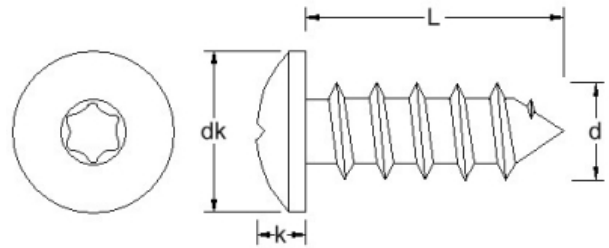
Material Grades: A2: ● A4: ▲

| b (approx) | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|-----|--|--|--|--|--|--|--|--|
| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | | | | | | | | | |
| k | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 3 | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | |
| 160 | | | | | | | ● ▲ | | | | | | | | |
| 180 | | | | | | | ● ▲ | | | | | | | | |
| 200 | | | | | | | ● ▲ | | | | | | | | |

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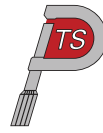
RUNDKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, VOLLGEWINDE MIT INNENVIELZAHN



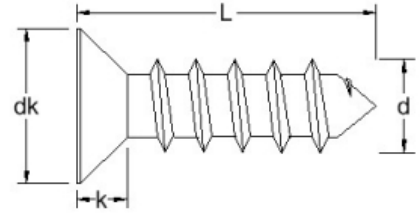
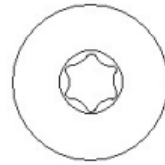
Material Grades: A2: ●

| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 1.6 | 1.8 | 2.1 | 2.9 | 3.3 | 3.8 | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | | |
| 10/10 | ● | | | | | | | | | | | | | | | | | |
| 12/12 | ● | ● | ● | | | | | | | | | | | | | | | |
| 16/16 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 20/20 | ● | | ● | ● | ● | ● | | | | | | | | | | | | |
| 25/25 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 30/30 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 35/35 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 40/40 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 45/45 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 50/50 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 55/55 | | | | | ● | | | | | | | | | | | | | |
| 60/60 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 70/70 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 80/80 | | | | | ● | ● | | | | | | | | | | | | |
| 90/90 | | | | | ● | ● | | | | | | | | | | | | |
| 100/100 | | | | | ● | ● | | | | | | | | | | | | |
| 110/110 | | | | | | ● | | | | | | | | | | | | |
| 120/120 | | | | | | ● | | | | | | | | | | | | |

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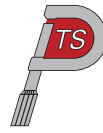
SENKKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, VOLLGEWINDE MIT INNENVIELZAHN



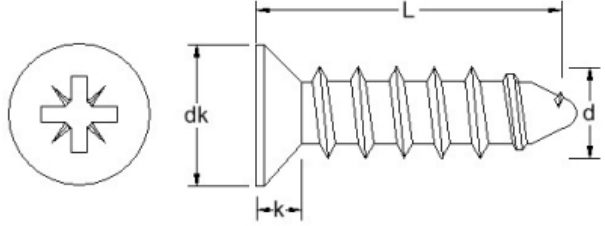
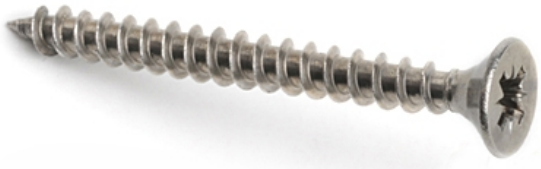
Material Grades: A2: ● A4: ▲

| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | | | | | | | | | | | | |
|------------|-----|------|-----|------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 3 | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | | |
| 10/10 | ●▲ | | | | | | | | | | | | | | | | | |
| 12/12 | ● | ● | | | | | | | | | | | | | | | | |
| 13/13 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 16/16 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 20/20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 25/25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 30/30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 35/35 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 40/40 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 45/45 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 50/50 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 55/55 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 60/60 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 70/70 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 80/80 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 90/90 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |
| 100/100 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |

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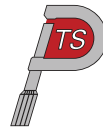
SENKKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, VOLLGEWINDE MIT KREUZSCHLITZ



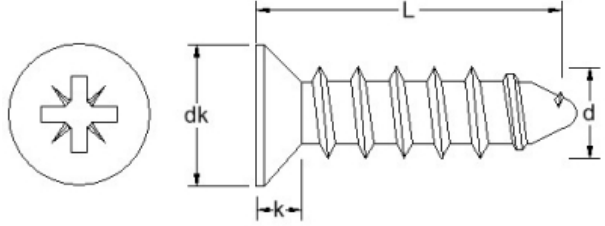
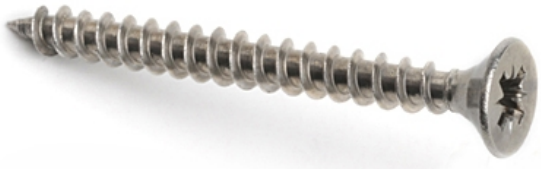
Material Grades: A2: ● A4: ▲

| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | | | | | | | | | | | | |
|------------|-----|------|-----|------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 3 | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | | |
| 12/12 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 13/13 | | ● | ●▲ | | | | | | | | | | | | | | | |
| 14/14 | ●▲ | ▲ | ▲ | | | | | | | | | | | | | | | |
| 16/16 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 20/20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 25/25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 30/30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 35/35 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 40/40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 45/45 | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 50/50 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 55/55 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 60/60 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 65/65 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 70/70 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 75/75 | | | ▲ | | | | | | | | | | | | | | | |
| 80/80 | | | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 90/90 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |

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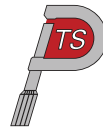
SENKKOPF-SPANPLATTENSCHRAUBEN GLEITBESCHICHTET, VOLLGEWINDE MIT KREUZSCHLITZ -



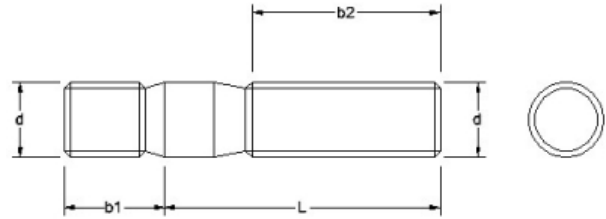
Material Grades: A2: ● A4: ▲

| dk (max) | 6 | 7 | 8 | 9 | 10 | 12 | | | | | | | | | | | |
|------------|-----|------|-----|------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|
| k | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 3 | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | |
| 100/100 | | | | | ● ▲ | ● ▲ | | | | | | | | | | | |
| 110/110 | | | | | ● | ● | | | | | | | | | | | |
| 120/120 | | | | | ● | ● ▲ | | | | | | | | | | | |
| 130/130 | | | | | | ● | | | | | | | | | | | |
| 140/140 | | | | | | ● ▲ | | | | | | | | | | | |

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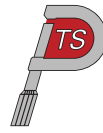
STIFTSCHRAUBEN, EINSCHRAUBENDE = 1,25 D, DIN 939



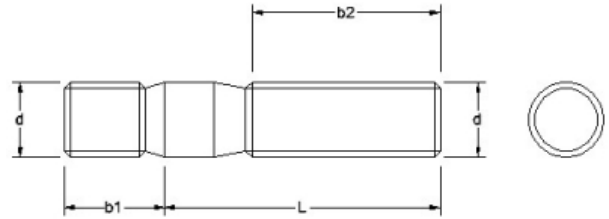
Material Grades: A2: ● A4: ▲

| b1 | 7.5 | 10.0 | 12.0 | 15.0 | 20.0 | 25.0 | 30.0 | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| b2 | 18 | 22 | 26 | 30 | 38 | 46 | 54 | | | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 | | | | | | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 35 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 45 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 50 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 55 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 60 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 65 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 70 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 75 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 80 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 85 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 90 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 100 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 110 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |

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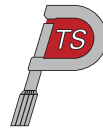
STIFTSCHRAUBEN, EINSCHRAUBENDE = 1,25 D, DIN 939



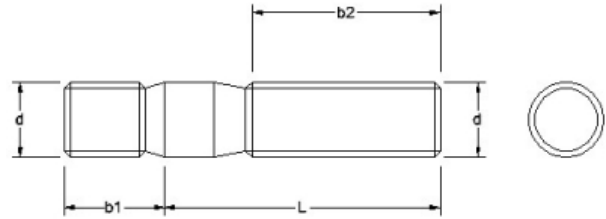
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| b1 | 7.5 | 10.0 | 12.0 | 15.0 | 20.0 | 25.0 | 30.0 | | | | | | | | | | | |
| b2 | 18 | 22 | 26 | 30 | 38 | 46 | 54 | | | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 | | | | | | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | | | | | |
| 120 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |

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STIFTSCHRAUBEN, EINSCHRAUBENDE = 1 D, DIN 938

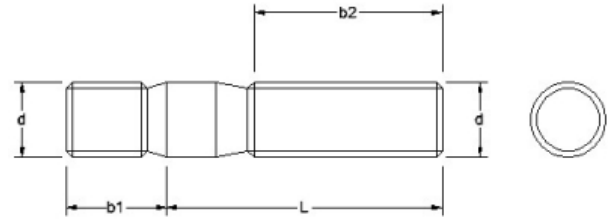


Material Grades: A2: ● A4: ▲

| b1 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| b2 | 18 | 22 | 26 | 30 | 38 | 46 | 54 | | | | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 | | | | | | | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 35 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 45 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 50 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 55 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 60 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 65 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 70 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 75 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 80 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 85 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 90 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 95 | | | | | | ▲ | | | | | | | | | | | | | |
| 100 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |

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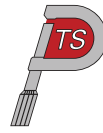
STIFTSCHRAUBEN, EINSCHRAUBENDE = 1 D, DIN 938



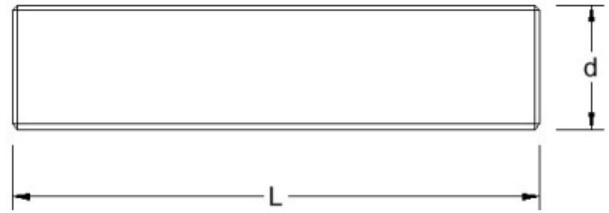
Material Grades: A2: ● A4: ▲

| b1 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| b2 | 18 | 22 | 26 | 30 | 38 | 46 | 54 | | | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 | | | | | | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | | | | | |
| 110 | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | |
| 120 | | | | | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | |

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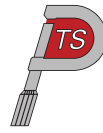
GEWINDESTANGEN MIT LINKSGEWINDE, DIN 975 X 1000MM



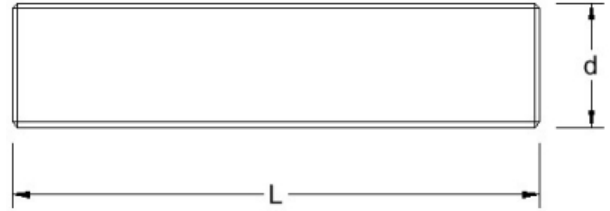
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| L | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | | | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 | | | | | | | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | | | | | | |
| 1MTR | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |

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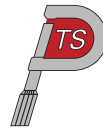
GEWINDESTANGEN DIN 976



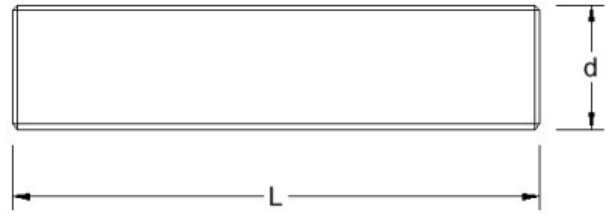
Material Grades: A2: ●

| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | | | | | | | | | | | | | |
|------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| length/dim | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | | | |
| 25 | ● | ● | | | | | | | | | | | | | | | | |
| 30 | ● | ● | | | | | | | | | | | | | | | | |
| 35 | ● | ● | ● | | | | | | | | | | | | | | | |
| 40 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 45 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 50 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 55 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 60 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 65 | | | | ● | ● | | | | | | | | | | | | | |
| 70 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 75 | | ● | ● | ● | | | | | | | | | | | | | | |
| 80 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 90 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 100 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 110 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 120 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 130 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 140 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 150 | | ● | ● | ● | ● | | | | | | | | | | | | | |

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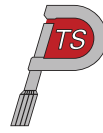
GEWINDESTANGEN DIN 976



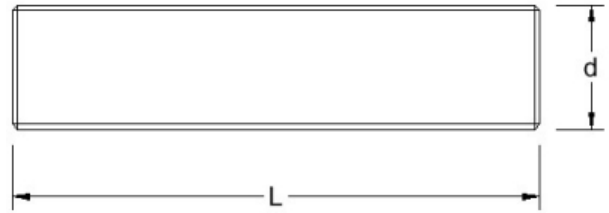
Material Grades: A2: ●

| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | | | | | | | | | | | | | |
|------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| length/dim | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | | | |
| 160 | | | | ● | ● | | | | | | | | | | | | | |
| 170 | | | | ● | ● | | | | | | | | | | | | | |
| 180 | | | | ● | ● | | | | | | | | | | | | | |
| 190 | | | | ● | | | | | | | | | | | | | | |
| 200 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 300 | | | | | ● | | | | | | | | | | | | | |

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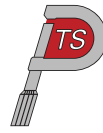
GEWINDESTANGEN, DIN 975 X 1000MM



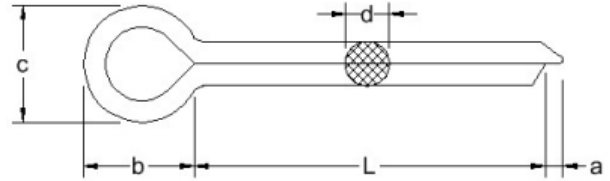
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Pitch | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | 3.00 | 3.50 | 3.50 | 4.00 |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M30 | M33 | M36 |
| 1MTR | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● |

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SPLINTE, DIN 94

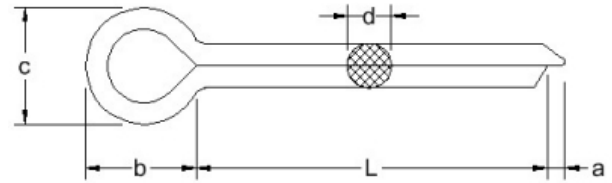


Material Grades: A2: ● A4: ▲

| | 0.80-1.60 | 1.25-2.50 | 1.25-2.50 | 1.25-2.00 | 1.25-2.00 | 1.60-3.20 | 2.00-4.00 | 2.00-4.00 | 2.00-4.00 | 2.00-4.00 | 3.20-6.30 | 3.20-6.30 | | | | |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|--|--|--|--|
| a | 0.80-1.60 | 1.25-2.50 | 1.25-2.50 | 1.25-2.00 | 1.25-2.00 | 1.60-3.20 | 2.00-4.00 | 2.00-4.00 | 2.00-4.00 | 2.00-4.00 | 3.20-6.30 | 3.20-6.30 | | | | |
| b | 3 | 3 | 3.2 | 4 | 5 | 6.4 | 8 | 10 | 12.6 | 16 | 20 | 26 | | | | |
| c | 1.60-1.80 | 1.70-2.00 | 2.40-2.80 | 3.20-3.60 | 4.00-4.60 | 5.10-5.80 | 6.50-7.40 | 8.00-9.20 | 10.30-11.80 | 13.10-15.00 | 16.60-19.00 | 21.70-24.80 | | | | |
| length/dim | 1.0 | 1.2 | 1.6 | 2.0 | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10 | 13 | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 22 | ●▲ | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 28 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 32 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 36 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 40 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 45 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 50 | | | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 56 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 63 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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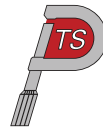
SPLINTE, DIN 94



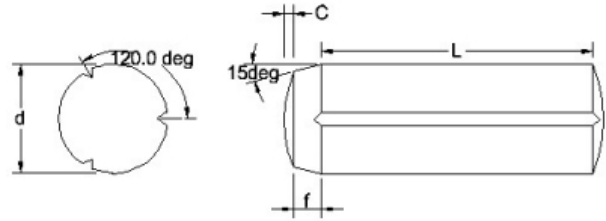
Material Grades: A2: ● A4: ▲

| | 0.80-1.60 | 1.25-2.50 | 1.25-2.50 | 1.25-2.00 | 1.25-2.00 | 1.60-3.20 | 2.00-4.00 | 2.00-4.00 | 2.00-4.00 | 2.00-4.00 | 3.20-6.30 | 3.20-6.30 | | | | |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|--|--|--|--|
| a | 0.80-1.60 | 1.25-2.50 | 1.25-2.50 | 1.25-2.00 | 1.25-2.00 | 1.60-3.20 | 2.00-4.00 | 2.00-4.00 | 2.00-4.00 | 2.00-4.00 | 3.20-6.30 | 3.20-6.30 | | | | |
| b | 3 | 3 | 3.2 | 4 | 5 | 6.4 | 8 | 10 | 12.6 | 16 | 20 | 26 | | | | |
| c | 1.60-1.80 | 1.70-2.00 | 2.40-2.80 | 3.20-3.60 | 4.00-4.60 | 5.10-5.80 | 6.50-7.40 | 8.00-9.20 | 10.30-11.80 | 13.10-15.00 | 16.60-19.00 | 21.70-24.80 | | | | |
| length/dim | 1.0 | 1.2 | 1.6 | 2.0 | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10 | 13 | | | | |
| 71 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 80 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 90 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 100 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 112 | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 125 | | | | | | | | | ● | ●▲ | ●▲ | ●▲ | | | | |
| 140 | | | | | | | | | | ●▲ | ●▲ | ●▲ | | | | |

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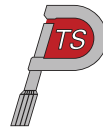
ZYLINDERKERBSTIFTE MIT FASE (FORM 3) DIN 1473



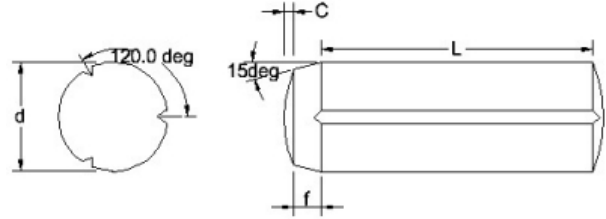
Material Grades: A2: ●

| c | 0.25 | 0.40 | 0.50 | 0.60 | 0.80 | 1.00 | | | | | | | | | | | |
|------------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| f | 0.9 | 1.3 | 1.8 | 2.0 | 2.5 | 2.8 | | | | | | | | | | | |
| length/dim | 2 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | | | |
| 5 | ● | | | | | | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 14 | ● | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 18 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 22 | | ● | | ● | | | | | | | | | | | | | |
| 25 | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 30 | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 32 | | ● | ● | ● | | | | | | | | | | | | | |
| 35 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 36 | | | | | ● | | | | | | | | | | | | |
| 40 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 45 | | | | ● | ● | ● | | | | | | | | | | | |
| 50 | | | ● | ● | ● | ● | | | | | | | | | | | |

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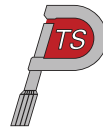
ZYLINDERKERBSTIFTE MIT FASE (FORM 3) DIN 1473



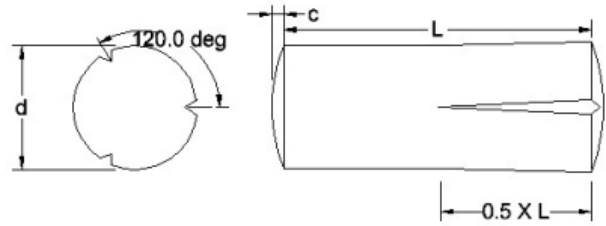
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| c | 0.25 | 0.40 | 0.50 | 0.60 | 0.80 | 1.00 | | | | | | | | | | | | | |
| f | 0.9 | 1.3 | 1.8 | 2.0 | 2.5 | 2.8 | | | | | | | | | | | | | |
| length/dim | 2 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | | | | | |
| 60 | | | | | ● | ● | | | | | | | | | | | | | |
| 70 | | | | | | ● | | | | | | | | | | | | | |

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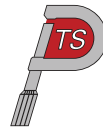
PASSKERBSTIFTE (FORM 2) DIN 1472



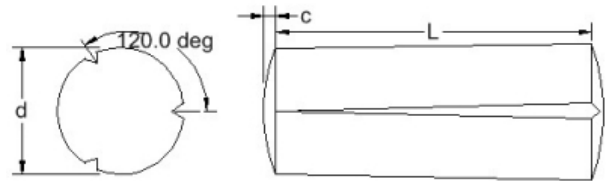
Material Grades: A2: ●

| c | 0.30 | 0.40 | 0.50 | 0.60 | 0.80 | 1.00 | | | | | | | | | | |
|------------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| length/dim | 2 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | | |
| 3 | ● | | | | | | | | | | | | | | | |
| 4 | ● | | | | | | | | | | | | | | | |
| 5 | ● | | | | | | | | | | | | | | | |
| 6 | ● | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 18 | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 25 | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 30 | | | ● | ● | ● | ● | | | | | | | | | | |
| 35 | | | ● | ● | ● | ● | | | | | | | | | | |
| 40 | | | ● | ● | ● | ● | | | | | | | | | | |
| 45 | | | | | ● | ● | | | | | | | | | | |
| 50 | | | | | ● | ● | | | | | | | | | | |
| 60 | | | | | ● | ● | | | | | | | | | | |

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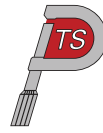
KEGELKERBSTIFTE (FORM 1) DIN 1471



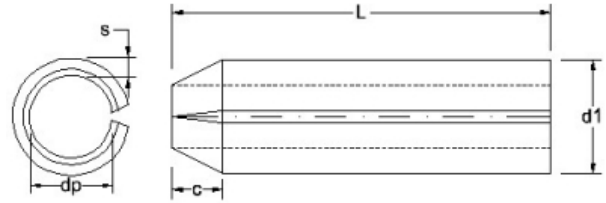
Material Grades: A2: ●

| c | 0.30 | 0.40 | 0.50 | 0.63 | 0.80 | 1.00 | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| length/dim | 2 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | | | | |
| 6 | ● | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 18 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 25 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 30 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 35 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 40 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 45 | | | | | ● | ● | | | | | | | | | | | | |
| 50 | | | | | ● | ● | | | | | | | | | | | | |
| 60 | | | | | ● | ● | | | | | | | | | | | | |

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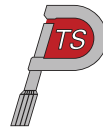
SPANNSTIFTE (SPANNHÜLSEN), DIN 1481 / ISO 8752



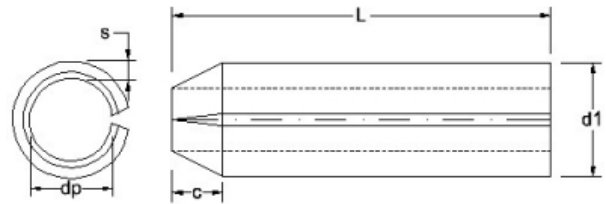
Material Grades: A2: ●

| c | 0.15 | 0.25 | 0.35 | 0.4 | 0.5 | 0.6 | 0.65 | 0.8 | 0.9 | 1.2 | 2.0 | 2.0 | 2.0 | * | | | |
|------------|------|------|------|-----|-----|------|------|-----|-----|------|-----|------|------|----|--|--|--|
| d1 (min) | 1.2 | 1.7 | 2.3 | 2.8 | 3.3 | 3.8 | 4.4 | 4.9 | 5.4 | 6.4 | 8.5 | 10.5 | 12.5 | * | | | |
| dp (min) | 0.8 | 1.1 | 1.5 | 1.8 | 2.1 | 2.3 | 2.8 | 2.9 | 3.4 | 3.9 | 5.5 | 6.5 | 7.5 | * | | | |
| s | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.75 | 0.8 | 1.0 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | * | | | |
| length/dim | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | 8.0 | 10 | 12 | 14 | | | |
| 4 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 5 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 6 | ● | ● | ● | ● | ● | ● | ● | | ● | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | ● | ● | | ● | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| 12 | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | | | | | |
| 14 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 18 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 20 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| 22 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 24 | | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | | | |
| 25 | | | | | ● | ● | ● | | ● | | | | | | | | |
| 26 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 28 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 30 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |

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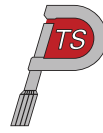
SPANNSTIFTE (SPANNHÜLSEN), DIN 1481 / ISO 8752



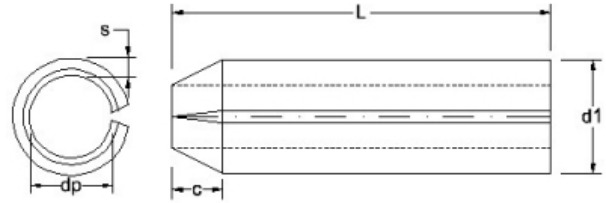
Material Grades: A2: ●

| c | 0.15 | 0.25 | 0.35 | 0.4 | 0.5 | 0.6 | 0.65 | 0.8 | 0.9 | 1.2 | 2.0 | 2.0 | 2.0 | * | | | |
|------------|------|------|------|-----|-----|------|------|-----|-----|------|-----|------|------|----|--|--|--|
| d1 (min) | 1.2 | 1.7 | 2.3 | 2.8 | 3.3 | 3.8 | 4.4 | 4.9 | 5.4 | 6.4 | 8.5 | 10.5 | 12.5 | * | | | |
| dp (min) | 0.8 | 1.1 | 1.5 | 1.8 | 2.1 | 2.3 | 2.8 | 2.9 | 3.4 | 3.9 | 5.5 | 6.5 | 7.5 | * | | | |
| s | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.75 | 0.8 | 1.0 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | * | | | |
| length/dim | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | 8.0 | 10 | 12 | 14 | | | |
| 32 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| 35 | | | | | | | | | ● | | | | | | | | |
| 36 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| 40 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 45 | | | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| 50 | | | | | | | ● | ● | ● | ● | ● | ● | ● | | | | |
| 55 | | | | | | | | | ● | ● | ● | ● | | | | | |
| 60 | | | | | | | | | ● | ● | ● | ● | ● | | | | |
| 65 | | | | | | | | | ● | | ● | ● | | | | | |
| 70 | | | | | | | | | ● | ● | ● | ● | ● | | | | |
| 75 | | | | | | | | | | ● | ● | ● | | | | | |
| 80 | | | | | | | | | | ● | ● | ● | | | | | |
| 85 | | | | | | | | | | | ● | ● | | | | | |
| 90 | | | | | | | | | | | ● | ● | | | | | |
| 95 | | | | | | | | | | | ● | | | | | | |
| 100 | | | | | | | | | | | ● | ● | | | | | |

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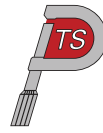
SPANNSTIFTE (SPANNHÜLSEN), DIN 1481 / ISO 8752



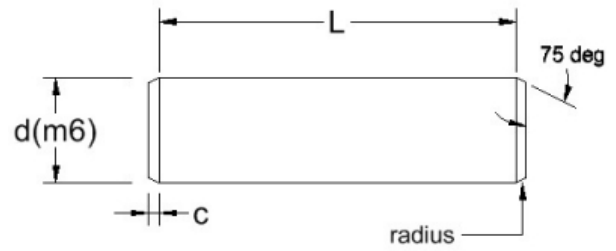
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|-----|-----|------|------|-----|-----|------|-----|------|------|----|--|--|--|
| c | 0.15 | 0.25 | 0.35 | 0.4 | 0.5 | 0.6 | 0.65 | 0.8 | 0.9 | 1.2 | 2.0 | 2.0 | 2.0 | * | | | |
| d1 (min) | 1.2 | 1.7 | 2.3 | 2.8 | 3.3 | 3.8 | 4.4 | 4.9 | 5.4 | 6.4 | 8.5 | 10.5 | 12.5 | * | | | |
| dp (min) | 0.8 | 1.1 | 1.5 | 1.8 | 2.1 | 2.3 | 2.8 | 2.9 | 3.4 | 3.9 | 5.5 | 6.5 | 7.5 | * | | | |
| s | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.75 | 0.8 | 1.0 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | * | | | |
| length/dim | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | 8.0 | 10 | 12 | 14 | | | |
| 120 | | | | | | | | | | | | ● | | | | | |

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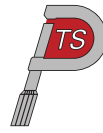
ZYLINDERSTIFTE, DIN 7



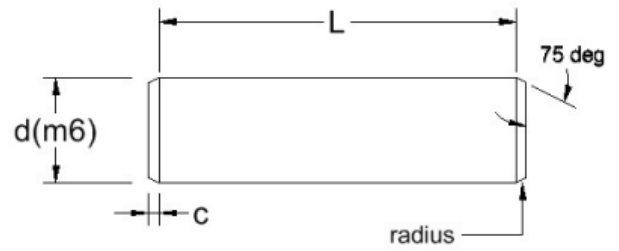
Material Grades: A2: ● A4: ▲

| c | 0.15 | 0.23 | 0.3 | 0.4 | 0.45 | 0.6 | 0.75 | 0.9 | 1.2 | 1.5 | 1.8 | 2.5 | 3 | | | | |
|------------|------|------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|----|----|--|--|--|
| length/dim | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 | 8.0 | 10 | 12 | 16 | 20 | | | | |
| 3 | ●▲ | ● | ● | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 18 | ● | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 20 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 22 | | | | | | | ●▲ | | | | | | | | | | |
| 24 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ● | | | | |
| 26 | | | | | | | | | | ●▲ | | | | | | | |
| 28 | | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 30 | | | | | ● | | | ●▲ | ●▲ | ●▲ | | | | | | | |
| 32 | | | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 36 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 40 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |

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ZYLINDERSTIFTE, DIN 7

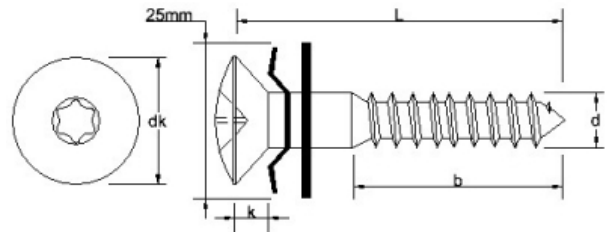


Material Grades: A2: ● A4: ▲

| c | 0.15 | 0.23 | 0.3 | 0.4 | 0.45 | 0.6 | 0.75 | 0.9 | 1.2 | 1.5 | 1.8 | 2.5 | 3 | | | | |
|------------|------|------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|--|--|--|--|
| length/dim | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 | 5.0 | 6.0 | 8.0 | 10 | 12 | 16 | 20 | | | | |
| 45 | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | |
| 50 | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | |
| 55 | | | | | | | | ● ▲ | ● | ● ▲ | | | ● | | | | |
| 60 | | | | | | ● | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | |
| 70 | | | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | |
| 80 | | | | | | | | ● | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | |
| 90 | | | | | | | | | ● | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | |
| 100 | | | | | | | | | | ● ▲ | ● ▲ | ● ▲ | ▲ | | | | |
| 120 | | | | | | | | | | | | ● | | | | | |

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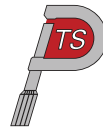
SPENGLERSCHRAUBEN 2TLG, DIN 7995 TX, MIT DICHTSCHEIBEN 25MM



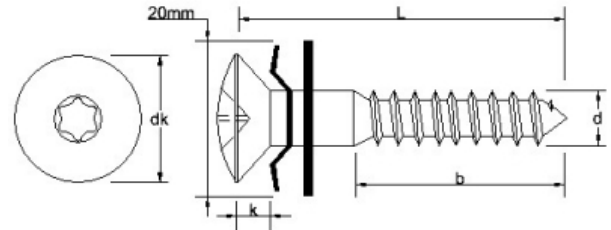
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b | 0.6 x L | | | | | | | | | | | | | | | | |
| dk | 8.3 | | | | | | | | | | | | | | | | |
| Drive # | TX20 | | | | | | | | | | | | | | | | |
| k | 2.35 | | | | | | | | | | | | | | | | |
| length/dim | 4.5 | | | | | | | | | | | | | | | | |
| 20 | ● | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | |
| 30 | ● | | | | | | | | | | | | | | | | |
| 35 | ● | | | | | | | | | | | | | | | | |
| 40 | ● | | | | | | | | | | | | | | | | |
| 45 | ● | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | |
| 55 | ● | | | | | | | | | | | | | | | | |
| 60 | ● | | | | | | | | | | | | | | | | |
| 70 | ● | | | | | | | | | | | | | | | | |

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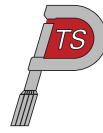
SPENGLERSCHRAUBEN 2TLG, DIN 7995 TX, MIT DICHTSCHEIBEN 20MM



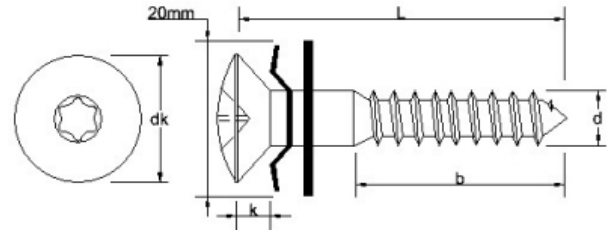
Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | | | | | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 8.3 | 9.2 | | | | | | | | | | | | | | | | | |
| Drive # | TX20 | TX20 | | | | | | | | | | | | | | | | | |
| k | 2.35 | 2.5 | | | | | | | | | | | | | | | | | |
| length/dim | 4.5 | 5.0 | | | | | | | | | | | | | | | | | |
| 20 | ● | | | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | | |
| 30 | ● | | | | | | | | | | | | | | | | | | |
| 35 | ● | | | | | | | | | | | | | | | | | | |
| 40 | ● | | | | | | | | | | | | | | | | | | |
| 45 | ● | | | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | | | |
| 55 | ● | | | | | | | | | | | | | | | | | | |
| 60 | ● | | | | | | | | | | | | | | | | | | |
| 65 | ● | | | | | | | | | | | | | | | | | | |
| 70 | ● | | | | | | | | | | | | | | | | | | |
| 80 | ● | | | | | | | | | | | | | | | | | | |
| 100 | ● | | | | | | | | | | | | | | | | | | |
| 120 | ● | | | | | | | | | | | | | | | | | | |
| 150 | ● | | | | | | | | | | | | | | | | | | |
| 180 | | ● | | | | | | | | | | | | | | | | | |

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SPENGLERSCHRAUBEN 2TLG, DIN 7995 TX, MIT DICHTSCHEIBEN 20MM

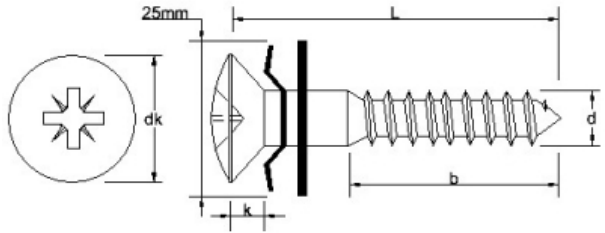
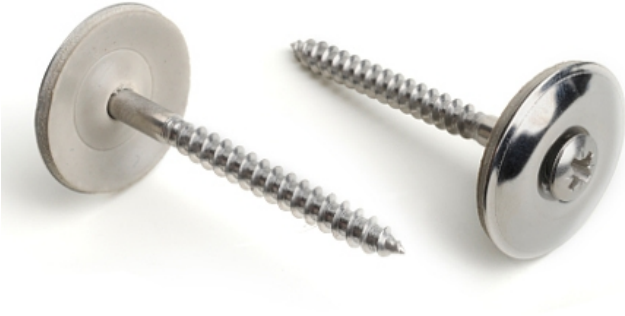


Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 8.3 | 9.2 | | | | | | | | | | | | | |
| Drive # | TX20 | TX20 | | | | | | | | | | | | | |
| k | 2.35 | 2.5 | | | | | | | | | | | | | |
| length/dim | 4.5 | 5.0 | | | | | | | | | | | | | |
| 200 | | ● | | | | | | | | | | | | | |
| 220 | | ● | | | | | | | | | | | | | |
| 250 | | ● | | | | | | | | | | | | | |
| 280 | | ● | | | | | | | | | | | | | |
| 300 | | ● | | | | | | | | | | | | | |

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SPENGLERSCHRAUBEN 2TLG, DIN 7995Z, MIT DICHTSCHEIBEN 25MM - POZI

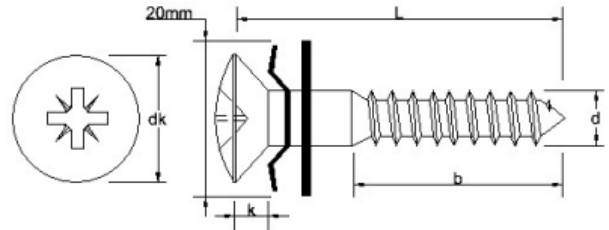


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | | |
|------------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b | 0.6 x L | | | | | | | | | | | | | | | | | | | | |
| dk | 8.3 | | | | | | | | | | | | | | | | | | | | |
| Drive # | 2 | | | | | | | | | | | | | | | | | | | | |
| k | 2.35 | | | | | | | | | | | | | | | | | | | | |
| length/dim | 4.5 | | | | | | | | | | | | | | | | | | | | |
| 20 | ● | | | | | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | | | | |
| 30 | ● | | | | | | | | | | | | | | | | | | | | |
| 35 | ● | | | | | | | | | | | | | | | | | | | | |
| 40 | ● | | | | | | | | | | | | | | | | | | | | |
| 45 | ● | | | | | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | | | | | |
| 55 | ● | | | | | | | | | | | | | | | | | | | | |
| 60 | ● | | | | | | | | | | | | | | | | | | | | |
| 70 | ● | | | | | | | | | | | | | | | | | | | | |

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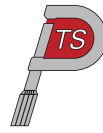
SPENGLERSCHRAUBEN 2TLG, DIN 7995Z, MIT DICHTSCHEIBEN 20MM - POZI



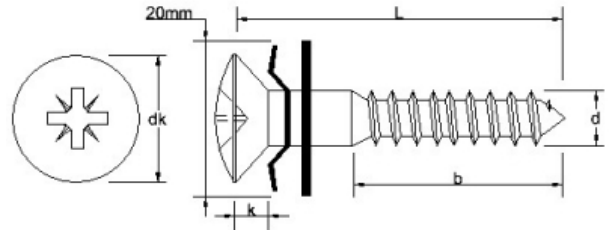
Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | | | | | | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 8.3 | 9.2 | | | | | | | | | | | | | | | | | | |
| Drive # | 2 | 2 | | | | | | | | | | | | | | | | | | |
| k | 2.35 | 2.5 | | | | | | | | | | | | | | | | | | |
| length/dim | 4.5 | 5.0 | | | | | | | | | | | | | | | | | | |
| 20 | ● | | | | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | | | |
| 30 | ● | | | | | | | | | | | | | | | | | | | |
| 35 | ● | | | | | | | | | | | | | | | | | | | |
| 40 | ● | | | | | | | | | | | | | | | | | | | |
| 45 | ● | | | | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | | | | |
| 55 | ● | | | | | | | | | | | | | | | | | | | |
| 60 | ● | | | | | | | | | | | | | | | | | | | |
| 65 | ● | | | | | | | | | | | | | | | | | | | |
| 70 | ● | | | | | | | | | | | | | | | | | | | |
| 80 | ● | | | | | | | | | | | | | | | | | | | |
| 100 | ● | | | | | | | | | | | | | | | | | | | |
| 120 | ● | | | | | | | | | | | | | | | | | | | |
| 150 | ● | | | | | | | | | | | | | | | | | | | |
| 180 | | ● | | | | | | | | | | | | | | | | | | |

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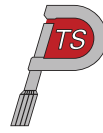
SPENGLERSCHRAUBEN 2TLG, DIN 7995Z, MIT DICHTSCHEIBEN 20MM - POZI



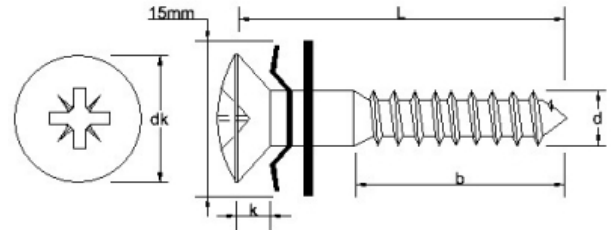
Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | | | | | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 8.3 | 9.2 | | | | | | | | | | | | | | | | | |
| Drive # | 2 | 2 | | | | | | | | | | | | | | | | | |
| k | 2.35 | 2.5 | | | | | | | | | | | | | | | | | |
| length/dim | 4.5 | 5.0 | | | | | | | | | | | | | | | | | |
| 200 | | ● | | | | | | | | | | | | | | | | | |
| 220 | | ● | | | | | | | | | | | | | | | | | |
| 250 | | ● | | | | | | | | | | | | | | | | | |
| 280 | | ● | | | | | | | | | | | | | | | | | |
| 300 | | ● | | | | | | | | | | | | | | | | | |

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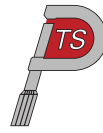
SPENGLERSCHRAUBEN 2TLG, DIN 7995Z, MIT DICHTSCHEIBEN 15MM - POZI



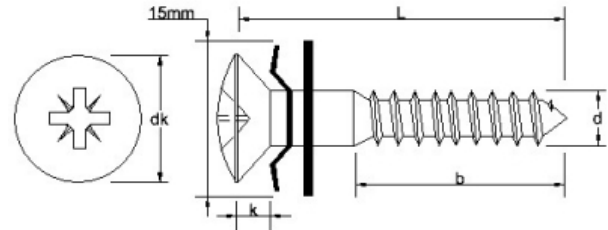
Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | | | | | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 8.3 | 9.2 | | | | | | | | | | | | | | | | | |
| Drive # | 2 | 2 | | | | | | | | | | | | | | | | | |
| k | 2.35 | 2.5 | | | | | | | | | | | | | | | | | |
| length/dim | 4.5 | 5.0 | | | | | | | | | | | | | | | | | |
| 20 | ● | | | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | | |
| 30 | ● | | | | | | | | | | | | | | | | | | |
| 35 | ● | | | | | | | | | | | | | | | | | | |
| 40 | ● | | | | | | | | | | | | | | | | | | |
| 45 | ● | | | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | | | |
| 55 | ● | | | | | | | | | | | | | | | | | | |
| 60 | ● | | | | | | | | | | | | | | | | | | |
| 65 | ● | | | | | | | | | | | | | | | | | | |
| 70 | ● | | | | | | | | | | | | | | | | | | |
| 80 | ● | | | | | | | | | | | | | | | | | | |
| 90 | ● | | | | | | | | | | | | | | | | | | |
| 100 | ● | | | | | | | | | | | | | | | | | | |
| 120 | ● | | | | | | | | | | | | | | | | | | |
| 150 | ● | | | | | | | | | | | | | | | | | | |

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SPENGLERSCHRAUBEN 2TLG, DIN 7995Z, MIT DICHTSCHEIBEN 15MM - POZI



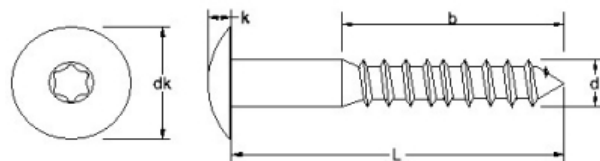
Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 8.3 | 9.2 | | | | | | | | | | | | | |
| Drive # | 2 | 2 | | | | | | | | | | | | | |
| k | 2.35 | 2.5 | | | | | | | | | | | | | |
| length/dim | 4.5 | 5.0 | | | | | | | | | | | | | |
| 180 | | ● | | | | | | | | | | | | | |
| 200 | | ● | | | | | | | | | | | | | |
| 220 | | ● | | | | | | | | | | | | | |
| 250 | | ● | | | | | | | | | | | | | |
| 280 | | ● | | | | | | | | | | | | | |
| 300 | | ● | | | | | | | | | | | | | |

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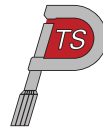
FLACHRUNDKOPF-HOLZSCHRAUBEN MIT INNENSECHSRUND



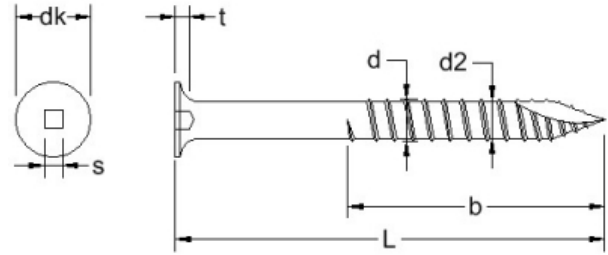
Material Grades: A2 ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b | 10-12 | | | | | | | | | | | | | | | | | | |
| dk | 12 | | | | | | | | | | | | | | | | | | |
| k | 2.5 | | | | | | | | | | | | | | | | | | |
| length/dim | 4.8 | | | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | | |
| 32 | ● | | | | | | | | | | | | | | | | | | |
| 38 | ● | | | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | | | |
| 60 | ● | | | | | | | | | | | | | | | | | | |

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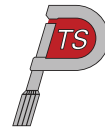
TERRASSENBAUSCHRAUBEN



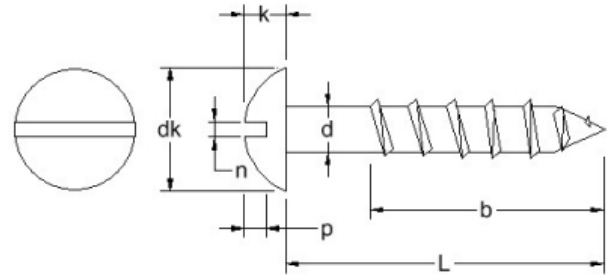
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | |
|------------|------|------------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) | | 0.66 X 'L' | 0.66 X 'L' | | | | | | | | | | | | | | | | | |
| d2 | | 2.90 | 3.50 | | | | | | | | | | | | | | | | | |
| dk (max) | | 8.50 | 8.90 | | | | | | | | | | | | | | | | | |
| s | | #2 | #2 | | | | | | | | | | | | | | | | | |
| t (min) | | 1.70 | 1.66 | | | | | | | | | | | | | | | | | |
| length/dim | NO.2 | NO.8 | NO.10 | | | | | | | | | | | | | | | | | |
| | ● | | | | | | | | | | | | | | | | | | | |
| 2 | | ● | | | | | | | | | | | | | | | | | | |
| 3 | | ● | ● | | | | | | | | | | | | | | | | | |
| 2.1/4 | | ● | | | | | | | | | | | | | | | | | | |
| 2.1/2 | | ● | ● | | | | | | | | | | | | | | | | | |

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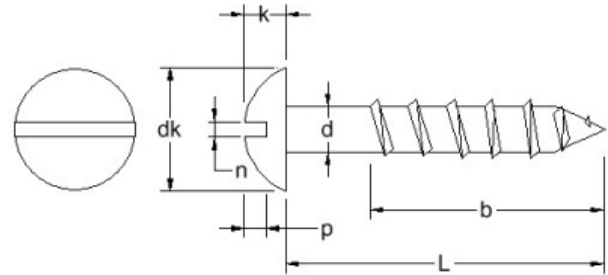


Material Grades: A2: ● A4: ▲

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|----|--|--|--|--|--|--|--|--|--|
| dk | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | |
| k | 1.7 | 2.1 | 2.4 | 2.8 | 3.1 | 3.5 | 3.8 | 4.2 | | | | | | | | | | |
| n | 0.6 | 0.8 | 0.8 | 1.0 | 1.0 | 1.2 | 1.2 | 1.6 | | | | | | | | | | |
| p (max) | 1.1 | 1.35 | 1.6 | 1.8 | 2.0 | 2.3 | 2.5 | 2.7 | | | | | | | | | | |
| length/dim | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | | | | | | | | | | |
| 10 | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 30 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 35 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 40 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 55 | | | | | | | ●▲ | | ● | | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 65 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 70 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 75 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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HALBUND-HOLZSCHRAUBEN MIT SCHLITZ, DIN 96

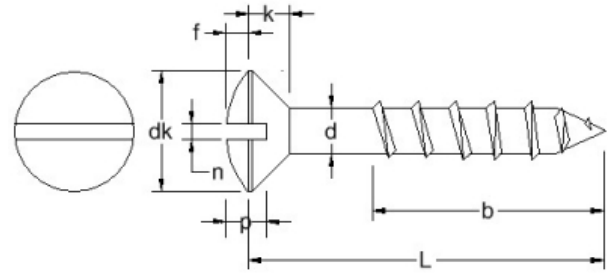


Material Grades: A2: ● A4: ▲

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|
| dk | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | |
| k | 1.7 | 2.1 | 2.4 | 2.8 | 3.1 | 3.5 | 3.8 | 4.2 | | | | | | | | | | |
| n | 0.6 | 0.8 | 0.8 | 1.0 | 1.0 | 1.2 | 1.2 | 1.6 | | | | | | | | | | |
| p (max) | 1.1 | 1.35 | 1.6 | 1.8 | 2.0 | 2.3 | 2.5 | 2.7 | | | | | | | | | | |
| length/dim | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | | | | | | | | | | |
| 80 | | | | | | ●▲ | ● | ●▲ | | | | | | | | | | |
| 90 | | | | | | ●▲ | ● | ●▲ | | | | | | | | | | |
| 100 | | | | | | ●▲ | ● | ●▲ | | | | | | | | | | |
| 110 | | | | | | | | ● | | | | | | | | | | |
| 120 | | | | | | | | ● | | | | | | | | | | |

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LINSENSENK-HOLZSCHRAUBEN MIT SCHLITZ, DIN 95

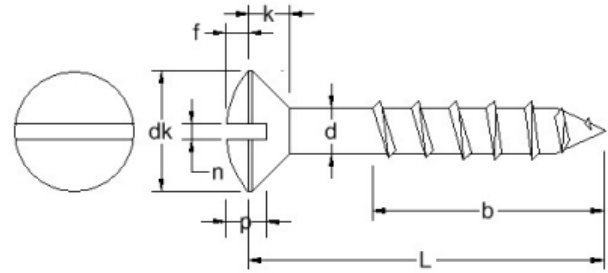


Material Grades: A2: ● A4: ▲

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|
| dk | 4.7 | 5.6 | 6.5 | 7.5 | 8.3 | 9.2 | 10.2 | 11 | | | | | | | | | |
| f | 0.6 | 0.75 | 0.9 | 1.0 | 1.1 | 1.25 | 1.4 | 1.5 | | | | | | | | | |
| k | 1.5 | 1.65 | 1.93 | 2.2 | 2.35 | 2.5 | 2.75 | 3 | | | | | | | | | |
| n | 0.6 | 0.8 | 0.8 | 1.0 | 1.0 | 1.2 | 1.2 | 1.6 | | | | | | | | | |
| p (max) | 1.2 | 1.45 | 1.7 | 1.9 | 2.1 | 2.3 | 2.5 | 2.8 | | | | | | | | | |
| length/dim | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | | | | | | | | | |
| 10 | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 30 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 35 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 40 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 55 | | | | | | ●▲ | | ●▲ | | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 65 | | | | | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |
| 70 | | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | |

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LINSENSENK-HOLZSCHRAUBEN MIT SCHLITZ, DIN 95

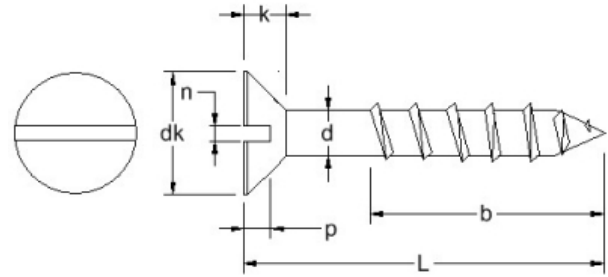


Material Grades: A2: ● A4: ▲

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|
| dk | 4.7 | 5.6 | 6.5 | 7.5 | 8.3 | 9.2 | 10.2 | 11 | | | | | | | | | | |
| f | 0.6 | 0.75 | 0.9 | 1.0 | 1.1 | 1.25 | 1.4 | 1.5 | | | | | | | | | | |
| k | 1.5 | 1.65 | 1.93 | 2.2 | 2.35 | 2.5 | 2.75 | 3 | | | | | | | | | | |
| n | 0.6 | 0.8 | 0.8 | 1.0 | 1.0 | 1.2 | 1.2 | 1.6 | | | | | | | | | | |
| p (max) | 1.2 | 1.45 | 1.7 | 1.9 | 2.1 | 2.3 | 2.5 | 2.8 | | | | | | | | | | |
| length/dim | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | | | | | | | | | | |
| 75 | | | | | | ●▲ | ● | ●▲ | | | | | | | | | | |
| 80 | | | | | | ●▲ | ● | ●▲ | | | | | | | | | | |
| 90 | | | | | | ●▲ | ● | ●▲ | | | | | | | | | | |
| 100 | | | | | | ●▲ | ● | ● | | | | | | | | | | |
| 110 | | | | | | | | ● | | | | | | | | | | |
| 120 | | | | | | | | ● | | | | | | | | | | |

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SENK-HOLZSCHRAUBEN MIT SCHLITZ, DIN 97

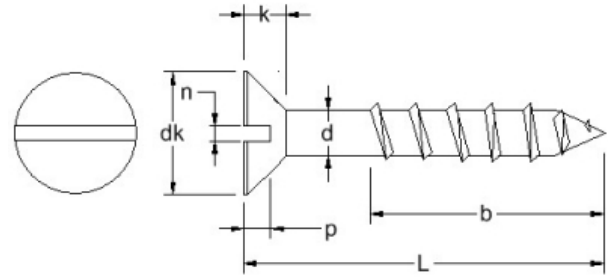


Material Grades: A2: ● A4: ▲

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|
| dk | 4.7 | 5.6 | 6.5 | 7.5 | 8.3 | 9.2 | 10.2 | 11 | 14.5 | | | | | | | | | |
| k | 1.5 | 1.65 | 1.93 | 2.2 | 2.35 | 2.5 | 2.75 | 3 | 4 | | | | | | | | | |
| n | 0.6 | 0.8 | 0.8 | 1.0 | 1.0 | 1.2 | 1.2 | 1.6 | 2.0 | | | | | | | | | |
| p (max) | 0.7 | 0.85 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.6 | 2.1 | | | | | | | | | |
| length/dim | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 8.0 | | | | | | | | | |
| 10 | ●▲ | ●▲ | | ●▲ | | | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | | |
| 30 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | |
| 35 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | | |
| 40 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | |
| 65 | | | | | | ●▲ | ● | ●▲ | | | | | | | | | | |
| 70 | | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | |
| 75 | | | | | | ●▲ | ● | | | | | | | | | | | |
| 80 | | | | | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | |

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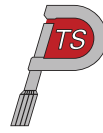
SENK-HOLZSCHRAUBEN MIT SCHLITZ, DIN 97



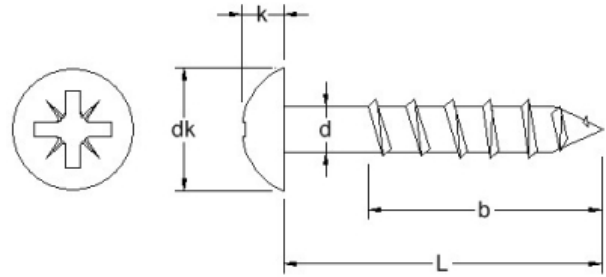
Material Grades: A2: ● A4: ▲

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|
| dk | 4.7 | 5.6 | 6.5 | 7.5 | 8.3 | 9.2 | 10.2 | 11 | 14.5 | | | | | | | | |
| k | 1.5 | 1.65 | 1.93 | 2.2 | 2.35 | 2.5 | 2.75 | 3 | 4 | | | | | | | | |
| n | 0.6 | 0.8 | 0.8 | 1.0 | 1.0 | 1.2 | 1.2 | 1.6 | 2.0 | | | | | | | | |
| p (max) | 0.7 | 0.85 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.6 | 2.1 | | | | | | | | |
| length/dim | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 8.0 | | | | | | | | |
| 90 | | | | | | ●▲ | ● | ●▲ | ●▲ | | | | | | | | |
| 100 | | | | | | ●▲ | ● | ●▲ | ●▲ | | | | | | | | |
| 110 | | | | | | | | ● | | | | | | | | | |
| 120 | | | | | | | | ● | | | | | | | | | |

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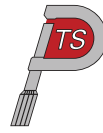
HALBRUND-HOLZSCHRAUBEN, DIN 7996 Z, KREUZSCHLITZ - POZIDRIVE



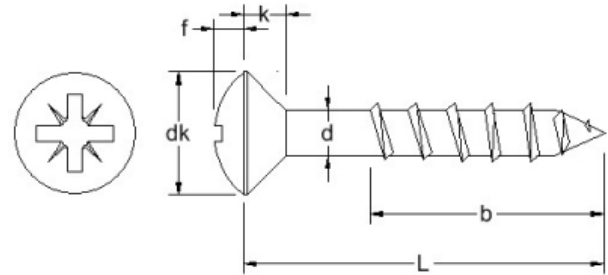
Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 6.1 | 7 | 8 | 9 | 10 | 12 | | | | | | | | | | | | |
| k | 2.1 | 2.35 | 2.8 | 3.1 | 3.5 | 4.2 | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | | |
| 12 | ● | | | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | | ● | | | | | | | | | | | | | |
| 20 | ● | ● | ● | | ● | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 30 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 35 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 40 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 45 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 50 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 60 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 65 | | | | ● | | | | | | | | | | | | | | |
| 70 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 80 | | | ● | | ● | ● | | | | | | | | | | | | |
| 90 | | | | | ● | | | | | | | | | | | | | |

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LINSENSENK-HOLZSCHRAUBEN, DIN 7995 Z, KREUZSCHLITZ - POZIDRIVE

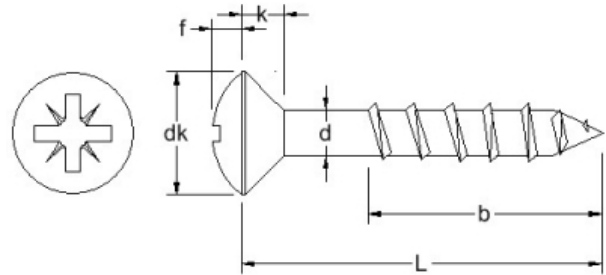


Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|
| dk | 5.6 | 6.5 | 7.5 | 8.3 | 9.2 | 11 | | | | | | | | | | | |
| f | 0.75 | 0.9 | 1.0 | 1.1 | 1.25 | 1.5 | | | | | | | | | | | |
| k | 1.65 | 1.93 | 2.2 | 2.35 | 2.5 | 3 | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | |
| 12 | ● | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 30 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 35 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 40 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 45 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 50 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 55 | | | | ● | | | | | | | | | | | | | |
| 60 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 65 | | | | ● | ● | ● | | | | | | | | | | | |
| 70 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 75 | | | | | ● | ● | | | | | | | | | | | |
| 80 | | | | ● | ● | ● | | | | | | | | | | | |
| 90 | | | | ● | ● | ● | | | | | | | | | | | |

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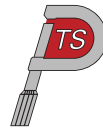
LINSENSENK-HOLZSCHRAUBEN, DIN 7995 Z, KREUZSCHLITZ - POZIDRIVE



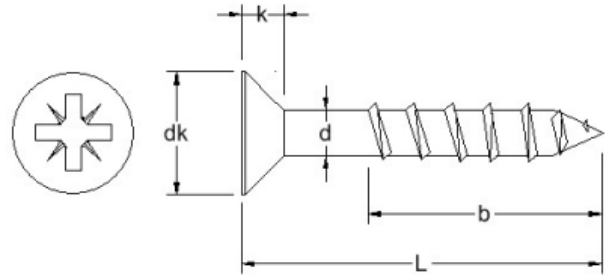
Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|
| dk | 5.6 | 6.5 | 7.5 | 8.3 | 9.2 | 11 | | | | | | | | | | | |
| f | 0.75 | 0.9 | 1.0 | 1.1 | 1.25 | 1.5 | | | | | | | | | | | |
| k | 1.65 | 1.93 | 2.2 | 2.35 | 2.5 | 3 | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | |
| 100 | | | | ● | ● | ● | | | | | | | | | | | |

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SENK-HOLZSCHRAUBEN, DIN 7997 Z, KREUZSCHLITZ - POZIDRIVE

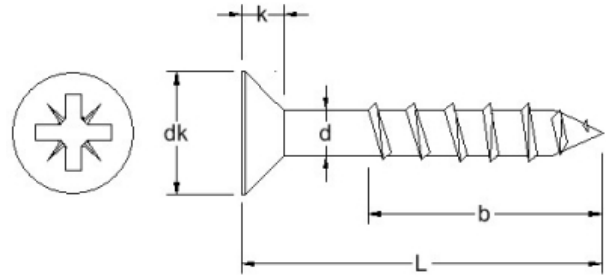


Material Grades: A2: ●

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|
| dk | 5.6 | 6.5 | 7.5 | 8.3 | 9.2 | 11 | | | | | | | | | | | |
| k | 1.65 | 1.93 | 2.2 | 2.35 | 2.5 | 3 | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | |
| 12 | ● | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 30 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 35 | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 40 | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 45 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 50 | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 60 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 65 | | | | ● | ● | ● | | | | | | | | | | | |
| 70 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 75 | | | | | ● | ● | | | | | | | | | | | |
| 80 | | | | | ● | ● | | | | | | | | | | | |
| 90 | | | | | ● | ● | | | | | | | | | | | |
| 100 | | | | | ● | ● | | | | | | | | | | | |
| 110 | | | | | | ● | | | | | | | | | | | |

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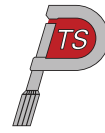
SENK-HOLZSCHRAUBEN, DIN 7997 Z, KREUZSCHLITZ - POZIDRIVE



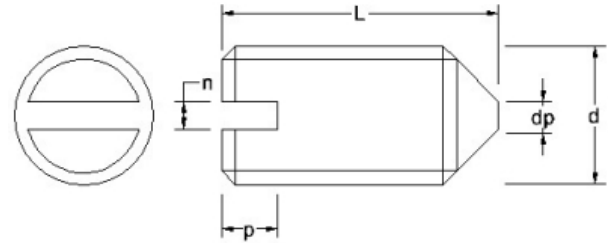
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|
| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | | |
| dk | 5.6 | 6.5 | 7.5 | 8.3 | 9.2 | 11 | | | | | | | | | | | | |
| k | 1.65 | 1.93 | 2.2 | 2.35 | 2.5 | 3 | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | | | | | | |

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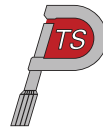
GEWINDESTIFTE MIT SCHLITZ UND SPITZE, DIN 553



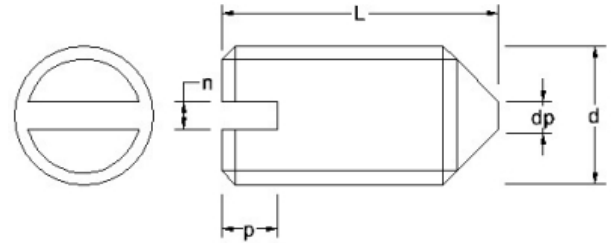
Material Grades: A2: ● A4: ▲

| dp (max) | * | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 | 1.5 | 2 | | | | | | | | | |
|------------|------|------|------|-----|------|------|-----|------|-----|-----|--|--|--|--|--|--|--|
| n | 0.25 | 0.25 | 0.4 | 0.4 | 0.6 | 0.8 | 1 | 1.2 | | | | | | | | | |
| p | 0.56 | 0.64 | 0.72 | 0.8 | 1.12 | 1.28 | 1.6 | 2 | | | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | |
| 2 | ● | ● | | | | | | | | | | | | | | | |
| 2.5 | | ● | | | | | | | | | | | | | | | |
| 3 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 4 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 5 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 6 | ● | ● | ● | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 10 | ● | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 12 | | ● | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 14 | | | | ● | | | | | | | | | | | | | |
| 16 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 18 | | | | | | | ● | ● | | | | | | | | | |
| 20 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | |
| 25 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 30 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 35 | | | | | | ● | ●▲ | ● | ● | ● | | | | | | | |

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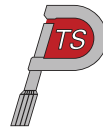
GEWINDESTIFTE MIT SCHLITZ UND SPITZE, DIN 553



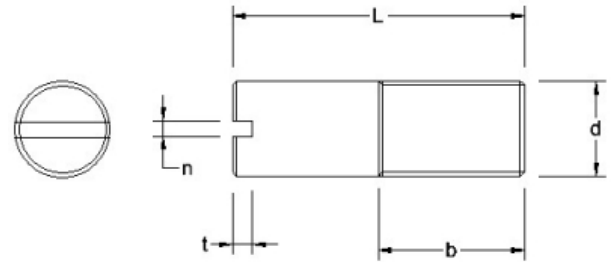
Material Grades: A2: ● A4: ▲

| dp (max) | * | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 | 1.5 | 2 | | | | | | | | | | |
|------------|------|------|------|-----|------|------|-----|------|-----|-----|--|--|--|--|--|--|--|--|
| n | 0.25 | 0.25 | 0.4 | 0.4 | 0.6 | 0.8 | 1 | 1.2 | | | | | | | | | | |
| p | 0.56 | 0.64 | 0.72 | 0.8 | 1.12 | 1.28 | 1.6 | 2 | | | | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | |
| 40 | | | | | ● | ● | ●▲ | ●▲ | ●▲ | ● | | | | | | | | |
| 45 | | | | | | | | ● | | | | | | | | | | |
| 50 | | | | | ● | ● | | ●▲ | ▲ | | | | | | | | | |

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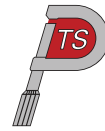
SCHAFTSCHRAUBEN MIT SCHLITZ UND KEGELKUPPE, DIN 427



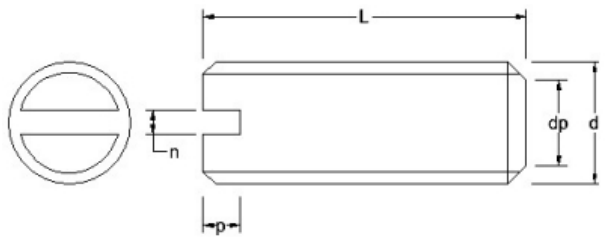
Material Grades: A2: ● A4: ▲

| | b | 3.6 | 4.8 | 6.0 | 7.2 | 9.6 | 12.0 | | | | | | | | | | | |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|------|--|--|--|--|--|--|--|--|--|--|--|
| n | 0.4 | 0.6 | 0.8 | 1 | 1.2 | 1.6 | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | |
| t | 1.25-1.50 | 1.75-2.05 | 2.00-2.35 | 2.50-2.90 | 3.10-3.60 | 3.75-4.25 | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | |
| 6 | ●▲ | | | | | | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 25 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 30 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 35 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 40 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 45 | | | | | | ●▲ | ●▲ | | | | | | | | | | | |
| 50 | | | | | | ●▲ | ●▲ | | | | | | | | | | | |

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GEWINDESTIFTE MIT SCHLITZ UND KEGELKUPPE, DIN 551

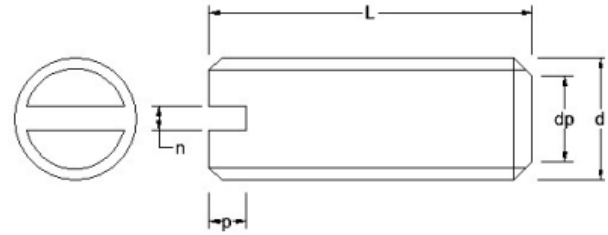


Material Grades: A2: ● A4: ▲

| dp (max) | * | * | * | 1 | 1.5 | 2 | 2.5 | 3.5 | 4 | 5.5 | | | | | | |
|------------|------|------|------|------|------|-----|------|------|-----|------|-----|-----|--|--|--|--|
| n | 0.2 | 0.2 | 0.25 | 0.25 | 0.4 | 0.4 | 0.6 | 0.8 | 1 | 1.2 | | | | | | |
| p | 0.4 | 0.48 | 0.56 | 0.64 | 0.72 | 0.8 | 1.12 | 1.28 | 1.6 | 2 | | | | | | |
| Pitch | 0.25 | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | |
| length/dim | M1.2 | M1.4 | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | |
| 1.5 | ● | | | | | | | | | | | | | | | |
| 2 | ● | ● | ● | ● | | | | | | | | | | | | |
| 2.5 | | | | ● | | | | | | | | | | | | |
| 3 | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 4 | ● | ● | ● | ● | ● | ● | ●▲ | ● | | | | | | | | |
| 5 | ● | ● | ● | ● | ● | ● | ●▲ | ●▲ | | | | | | | | |
| 6 | ● | ● | ● | ● | ● | ● | ●▲ | ●▲ | ●▲ | ● | | | | | | |
| 8 | ● | ● | ● | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 12 | | | | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | |
| 16 | | | | | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 18 | | | | | | | | | | ● | ▲ | | | | | |
| 20 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 25 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | |
| 30 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | |
| 35 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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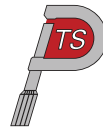
GEWINDESTIFTE MIT SCHLITZ UND KEGELKUPPE, DIN 551



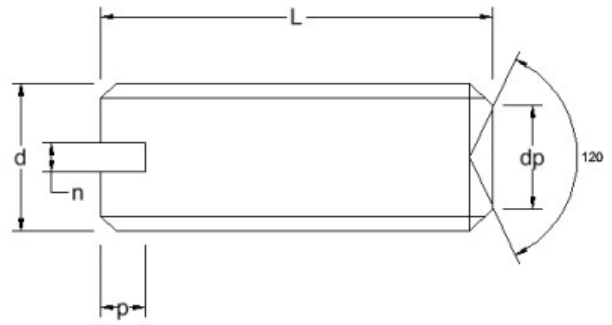
Material Grades: A2: ● A4: ▲

| dp (max) | * | * | * | 1 | 1.5 | 2 | 2.5 | 3.5 | 4 | 5.5 | | | | | | | |
|------------|------|------|------|------|------|-----|------|------|-----|------|-----|-----|--|--|--|--|--|
| n | 0.2 | 0.2 | 0.25 | 0.25 | 0.4 | 0.4 | 0.6 | 0.8 | 1 | 1.2 | | | | | | | |
| p | 0.4 | 0.48 | 0.56 | 0.64 | 0.72 | 0.8 | 1.12 | 1.28 | 1.6 | 2 | | | | | | | |
| Pitch | 0.25 | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | |
| length/dim | M1.2 | M1.4 | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | |
| 40 | | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● | | | | | |
| 45 | | | | | | | ● | ● | ● ▲ | ● ▲ | ● ▲ | | | | | | |
| 50 | | | | | | | ● | ● | ● ▲ | ● ▲ | ● ▲ | | | | | | |
| 55 | | | | | | | | | ● ▲ | | | | | | | | |
| 60 | | | | | | | | | ● ▲ | ● ▲ | ● ▲ | | | | | | |
| 70 | | | | | | | | | ● | ● | ● | | | | | | |
| 80 | | | | | | | | | | ● | ● | | | | | | |
| 90 | | | | | | | | | | | ● | | | | | | |

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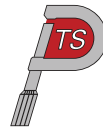
GEWINDESTIFTE MIT SCHLITZ UND RINGSCHNEIDE, DIN 438



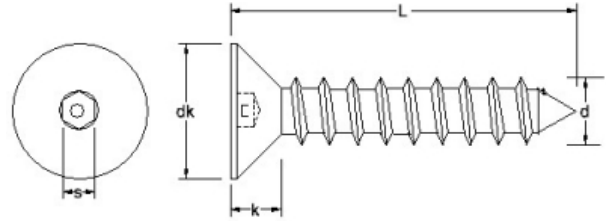
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dp (max) | 2 | 2.5 | 3 | 5 | | | | | | | | | | | | | | | |
| n | 0.6 | 0.8 | 1 | 1.2 | | | | | | | | | | | | | | | |
| p | 1.12 | 1.28 | 1.6 | 2 | | | | | | | | | | | | | | | |
| Pitch | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | | | | | |
| length/dim | M4 | M5 | M6 | M8 | | | | | | | | | | | | | | | |
| 6 | ● | | ● | | | | | | | | | | | | | | | | |
| 8 | ● | | | | | | | | | | | | | | | | | | |
| 10 | ● | ● | | ● | | | | | | | | | | | | | | | |
| 12 | ● | | | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 20 | ● | ● | | ● | | | | | | | | | | | | | | | |
| 25 | | ● | | ● | | | | | | | | | | | | | | | |
| 35 | | | | ● | | | | | | | | | | | | | | | |

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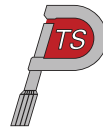
SENK-BLECHSCHRAUBEN MIT SPITZE, INNENSECHSKANT UND SICHERHEITS-PIN



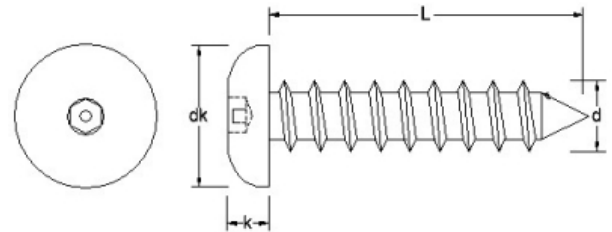
Material Grades: A2: ●

| dk | 6.6 | 7.9 | 9.3 | 10.4 | 12.4 | | | | | | | | | | | | | | |
|------------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 2.1 | 2.5 | 3 | 3.4 | 3.8 | | | | | | | | | | | | | | |
| length/dim | NO.6 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 2 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 3/8 | ● | | | | | | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 5/8 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 1.1/2 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 2.1/2 | | | ● | | | | | | | | | | | | | | | | |

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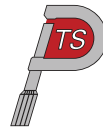
FLACHRUND-BLECHSCHRAUBEN MIT SPITZE, INNENSECHSKANT UND SICHERHEITS-PIN



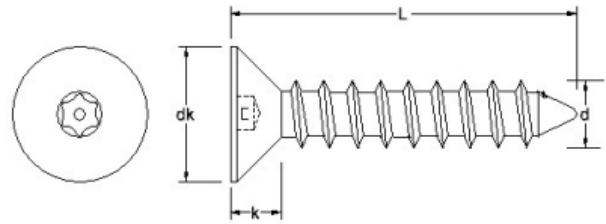
Material Grades: A2: ●

| dk | 6.7 | 7.4 | 9.3 | 10.3 | 11 | | | | | | | | | | | | | |
|------------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 2.5 | 2.1 | 2.6 | 3.2 | 3.4 | | | | | | | | | | | | | |
| length/dim | NO.6 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | | | | | | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 2 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 3/8 | ● | | | | | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 5/8 | ● | ● | ● | | | | | | | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 1.1/2 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 2.1/2 | | | ● | | | | | | | | | | | | | | | |

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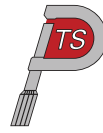
SENK-BLECHSCHRAUBEN MIT SPITZE, INNENVIELZAHN UND SICHERHEITS-PIN



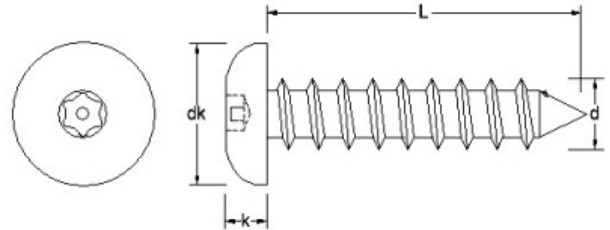
Material Grades: A2: ●

| dk | 4.9 | 6.6 | 7.9 | 9.3 | 10.6 | 12.4 | | | | | | | | | | | | |
|------------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 1.5 | 2.1 | 2.5 | 3 | 3.4 | 3.8 | | | | | | | | | | | | |
| length/dim | NO.4 | NO.6 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 1 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 2 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 2.1/2 | | | ● | ● | ● | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | | ● | | | | | | | | | | | | |
| 3 | | | | ● | ● | | | | | | | | | | | | | |
| 4 | | | | ● | | | | | | | | | | | | | | |
| 5/8 | | ● | ● | ● | | | | | | | | | | | | | | |
| 1.1/2 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |

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FLACHRUND-BLECHSCHRAUBEN MIT SPITZE, INNENVIELZAHN UND SICHERHEITS-PIN



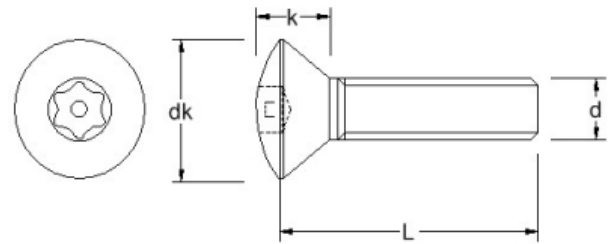
Material Grades: A2: ●

| dk | 6.7 | 7.4 | 9.3 | 10.2 | 11 | | | | | | | | | | | | | | |
|------------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 2.6 | 2.2 | 2.6 | 3.1 | 3.4 | | | | | | | | | | | | | | |
| length/dim | NO.6 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | | | | | |
| 3/8 | ● | ● | | | | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 2 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | | ● | | | | | | | | | | | | | | |
| 3 | | | | ● | | | | | | | | | | | | | | | |
| 5/8 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 1.1/2 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 2.1/2 | | | | ● | | | | | | | | | | | | | | | |

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LINSENSENK-SCHRAUBEN MIT INNENVIELZAHN UND SICHERHEITS-PIN



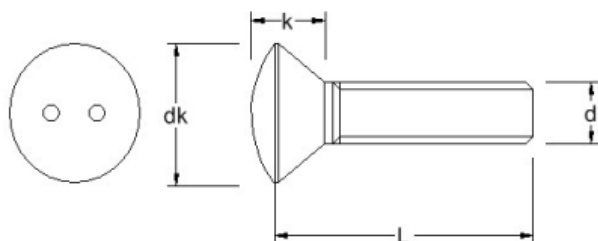
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | | | |
|------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 6.4 | | | | | | | | | | | | | | | | | | | | | |
| k | 1.8 | | | | | | | | | | | | | | | | | | | | | |
| Pitch | 0.60 | | | | | | | | | | | | | | | | | | | | | |
| length/dim | M3.5 | | | | | | | | | | | | | | | | | | | | | |
| 12 | ● | | | | | | | | | | | | | | | | | | | | | |
| 20 | ● | | | | | | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | | | | | |
| 30 | ● | | | | | | | | | | | | | | | | | | | | | |
| 35 | ● | | | | | | | | | | | | | | | | | | | | | |
| 75 | ● | | | | | | | | | | | | | | | | | | | | | |
| 40 | ● | | | | | | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | | | | | | |

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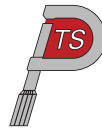
LINSENSENK-SCHRAUBEN MIT 2 LOCH



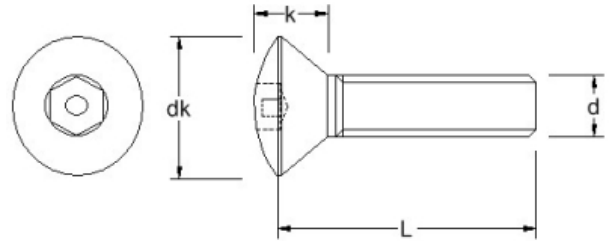
Material Grades: A2 ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 6.4 | | | | | | | | | | | | | | | | | |
| k | 1.9 | | | | | | | | | | | | | | | | | |
| Pitch | 0.60 | | | | | | | | | | | | | | | | | |
| length/dim | M3.5 | | | | | | | | | | | | | | | | | |
| 12 | ● | | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | |
| 30 | ● | | | | | | | | | | | | | | | | | |
| 40 | ● | | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | | |

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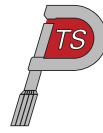
LINSENSENK-SCHRAUBEN MIT INNENSECHSKANT UND SICHERHEITS-PIN



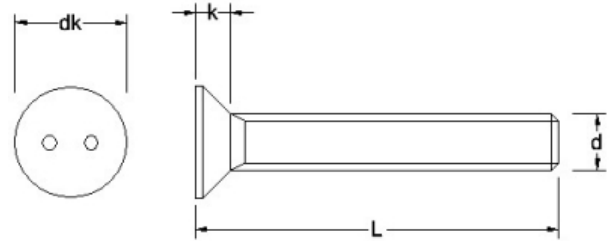
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | |
|------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 6.4 | | | | | | | | | | | | | | | | | | | |
| k | 1.8 | | | | | | | | | | | | | | | | | | | |
| Pitch | 0.60 | | | | | | | | | | | | | | | | | | | |
| length/dim | M3.5 | | | | | | | | | | | | | | | | | | | |
| 12 | ● | | | | | | | | | | | | | | | | | | | |
| 20 | ● | | | | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | | | |
| 30 | ● | | | | | | | | | | | | | | | | | | | |
| 40 | ● | | | | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | | | | |
| 60 | ● | | | | | | | | | | | | | | | | | | | |

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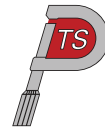
SENK-SCHRAUBEN MIT 2 LOCH



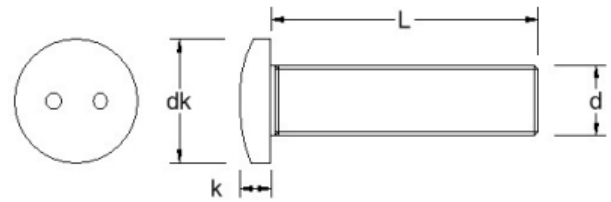
Material Grades: A2: ●

| dk | 5.5 | 7.3 | 9.0 | 10.7 | | | | | | | | | | | | | |
|------------|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 1.7 | 2.2 | 2.5 | 3.0 | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | | | | | | | | | | | | | |
| 8 | ● | | | | | | | | | | | | | | | | |
| 10 | ● | ● | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 30 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 35 | ● | ● | ● | | | | | | | | | | | | | | |
| 40 | | | | ● | | | | | | | | | | | | | |

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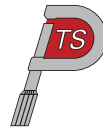
LINSEN-SCHRAUBEN MIT 2LOCH



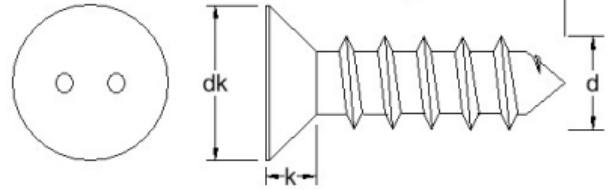
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 5.8 | 7.8 | 9.8 | 11.8 | | | | | | | | | | | | | | | |
| k | 1.7 | 2.4 | 2.9 | 3.5 | | | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | | | | | | | | | | | | | | | |
| 6 | | ● | | | | | | | | | | | | | | | | | |
| 10 | ● | ● | | | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 8 | | | ● | | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 20 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 25 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 30 | | | ● | ● | | | | | | | | | | | | | | | |
| 45 | | | | ● | | | | | | | | | | | | | | | |
| 50 | | | | ● | | | | | | | | | | | | | | | |
| 35 | | | | ● | | | | | | | | | | | | | | | |
| 40 | | | | ● | | | | | | | | | | | | | | | |

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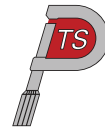
SENK-BLECHSCHRAUBEN MIT SPITZE UND 2 LOCH



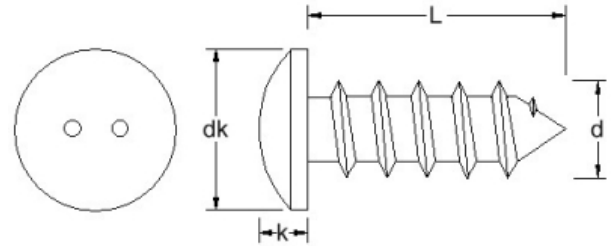
Material Grades: A2: ●

| dk | 5.5 | 6.6 | 7.8 | 8.9 | 10.1 | 12.3 | | | | | | | | | | | | |
|------------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 1.7 | 2.1 | 2.5 | 3 | 3.4 | 3.9 | | | | | | | | | | | | |
| length/dim | NO.4 | NO.6 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 2 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | | | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | | ● | | | | | | | | | | | | |
| 5/8 | | ● | ● | ● | | ● | | | | | | | | | | | | |
| 1.1/4 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1.1/2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 2.1/2 | | | | ● | | | | | | | | | | | | | | |

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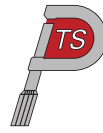
LINSEN-BLECHSCHRAUBEN MIT SPITZE UND 2LOCH



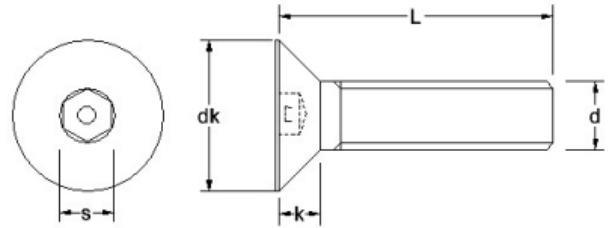
Material Grades: A2: ●

| dk | 5.4 | 6.7 | 8.0 | 9.2 | 10.5 | 12.2 | | | | | | | | | | | |
|------------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|
| k | 1.6 | 2.0 | 2.3 | 2.7 | 3.1 | 3.5 | | | | | | | | | | | |
| length/dim | NO.4 | NO.6 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 2 | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | | ● | | | | | | | | | | | |
| 5/8 | | ● | ● | ● | | ● | | | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 1.1/2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 2.1/2 | | | | ● | | | | | | | | | | | | | |

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SENK-SCHRAUBEN MIT INNENSECHSKANT UND SICHERHEITS-PIN

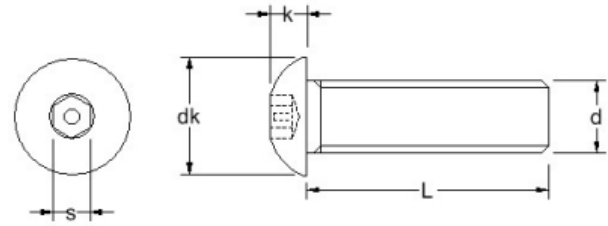


Material Grades: A2: ●

| dk | 5.7 | 7.7 | 9.8 | 11.8 | 15.1 | 19.3 | 23.2 | | | | | | | | | |
|------------|-----|-----|-----|------|------|------|------|--|--|--|--|--|--|--|--|--|
| k | 1.7 | 2.3 | 2.8 | 3.3 | 5 | 6.7 | 7.4 | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | |
| 8 | | ● | ● | ● | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 25 | | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 30 | | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 35 | | | | | ● | | | | | | | | | | | |
| 40 | | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 50 | | | ● | ● | ● | ● | ● | | | | | | | | | |
| 60 | | | ● | ● | ● | ● | | | | | | | | | | |

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FLACHRUND-SCHRAUBEN MIT INNENSECHSKANT UND SICHERHEITS-PIN

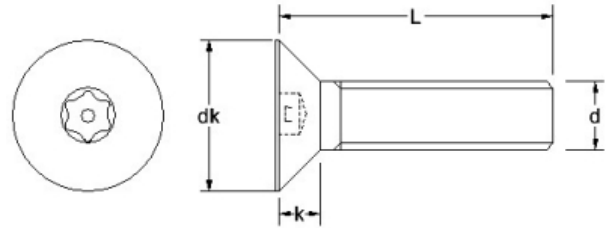


Material Grades: A2: ●

| dk | 5.5 | 7.4 | 9.3 | 10.3 | 13.7 | 17.1 | 20.4 | | | | | | | | | | | |
|------------|-----|-----|-----|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| k | 1.5 | 2.2 | 2.7 | 3.2 | 4.4 | 5.6 | 6.5 | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | | |
| 8 | | ● | | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 25 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 30 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 35 | | | | | ● | | | | | | | | | | | | | |
| 40 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 50 | | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 60 | | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 100 | | | | | | ● | | | | | | | | | | | | |

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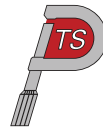
SENK-SCHRAUBEN MIT INNENVIELZAHN UND SICHERHEITS-PIN



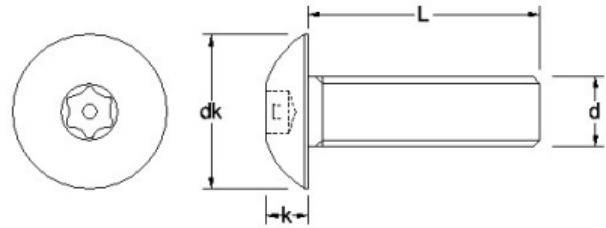
Material Grades: A2: ●

| dk | 5.6 | 7.8 | 9.8 | 11.6 | 15.2 | 17.4 | | | | | | | | | | | |
|------------|-----|-----|-----|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| k | 2 | 2.3 | 2.8 | 3.3 | 5 | 5.1 | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 30 | | ● | ● | ● | ● | | | | | | | | | | | | |
| 40 | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 50 | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 55 | | | | | ● | | | | | | | | | | | | |
| 60 | | | ● | ● | ● | ● | | | | | | | | | | | |
| 35 | | | | | | ● | | | | | | | | | | | |
| 70 | | ● | | ● | | | | | | | | | | | | | |
| 80 | | | ● | ● | ● | ● | | | | | | | | | | | |

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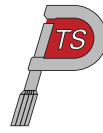
FLACHRUND-SCHRAUBEN MIT INNENVIELZAHN UND SICHERHEITS-PIN



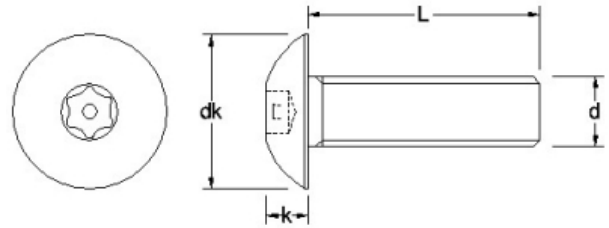
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|------|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 5.5 | 7.4 | 9.3 | 10.4 | 13.7 | 17 | | | | | | | | | | | | | |
| k | 1.6 | 2.1 | 2.7 | 3.2 | 4.3 | 5.8 | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 30 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 35 | | ● | ● | | ● | ● | | | | | | | | | | | | | |
| 45 | | ● | ● | | | | | | | | | | | | | | | | |
| 60 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 40 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 50 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 65 | | | | | | ● | | | | | | | | | | | | | |
| 70 | | | | | ● | ● | | | | | | | | | | | | | |
| 75 | | | | | ● | | | | | | | | | | | | | | |
| 80 | | | | ● | ● | ● | | | | | | | | | | | | | |

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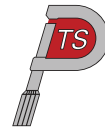
FLACHRUND-SCHRAUBEN MIT INNENVIELZAHN UND SICHERHEITS-PIN



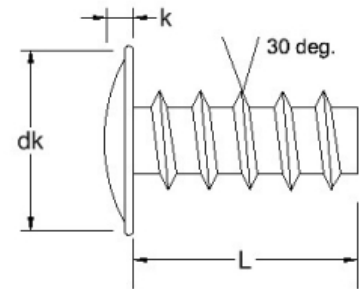
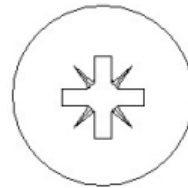
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|------|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 5.5 | 7.4 | 9.3 | 10.4 | 13.7 | 17 | | | | | | | | | | | | |
| k | 1.6 | 2.1 | 2.7 | 3.2 | 4.3 | 5.8 | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | |
| 100 | | | | | ● | | | | | | | | | | | | | |

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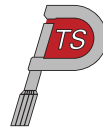
POLYTECH 30 LINSENKOPFSCHRAUBEN FÜR THERMOPLASTE, MIT FLANSCH - POZIDRIVE



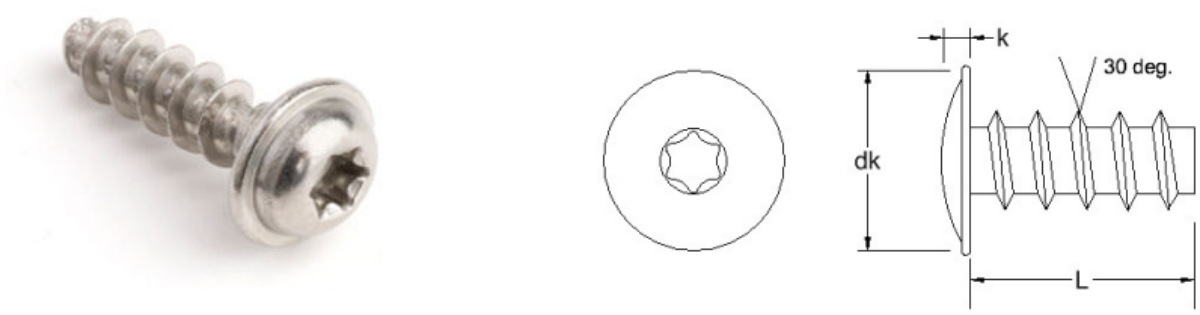
Material Grades: A2: ●

| dk (max) | 6.0 | 7.0 | 8.0 | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #2 | #2 | | | | | | | | | | | | | | | |
| k (max) | 2.1 | 2.4 | 2.5 | | | | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | | | | | | | | | | | | | | | |
| 8 | ● | | | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | | | | | | | | | | | | | | | |
| 14 | ● | ● | ● | | | | | | | | | | | | | | | |
| 16 | | ● | ● | | | | | | | | | | | | | | | |

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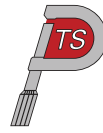
POLYTECH 30 LINSENKOPFSCHRAUBEN FÜR THERMOPLASTE, MIT FLANSCH UND INNENVIELZAHN



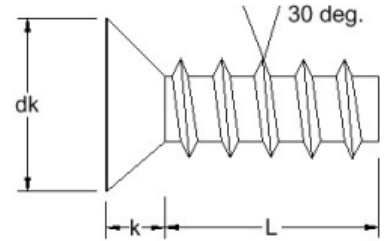
Material Grades: A2: ●

| dk (max) | 6.0 | 7.0 | 8.0 | 10 | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | T10 | T10 | T20 | T20 | | | | | | | | | | | | | |
| k (max) | 2.1 | 2.4 | 2.5 | 3.2 | | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 5.0 | | | | | | | | | | | | | |
| 8 | ● | | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 14 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | | | | | | | | | | | | | |

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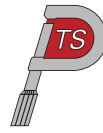
POLYTECH 30 SENKKOPFSCHRAUBEN FÜR THERMOPLASTE - PHILLIPS



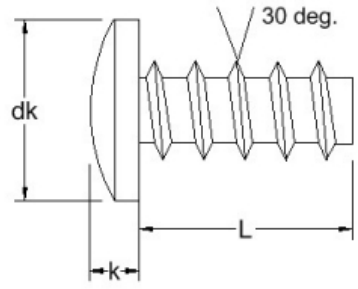
Material Grades: A2: ●

| dk (max) | 5.2 | 6.7 | 7.7 | | | | | | | | | | | | | | | |
|------------|-----|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #2 | #2 | | | | | | | | | | | | | | | |
| k (max) | 2.2 | 2.55 | 2.7 | | | | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | | | | | | | | | | | | | | | |
| 14 | ● | ● | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | | | | | | | | | | | | | | | |

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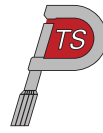
POLYTECH 30 LINSENKOPFSCHRAUBEN FÜR THERMOPLASTE - PHILLIPS



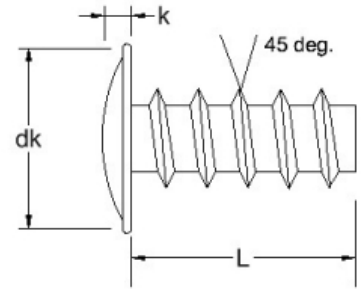
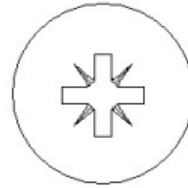
Material Grades: A2: ●

| dk (max) | 5.3 | 6.0 | 7.14 | | | | | | | | | | | | | | | |
|------------|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #2 | #2 | | | | | | | | | | | | | | | |
| k (max) | 2.2 | 2.55 | 2.7 | | | | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | | | | | | | | | | | | | | | |
| 14 | ● | ● | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | | | | | | | | | | | | | | | |
| 25 | ● | ● | ● | | | | | | | | | | | | | | | |

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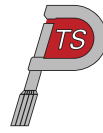
POLYFIX 45 LINSENKOPFSCHRAUBEN FÜR THERMOPLASTE, MIT FLANSCH - POZIDRIVE



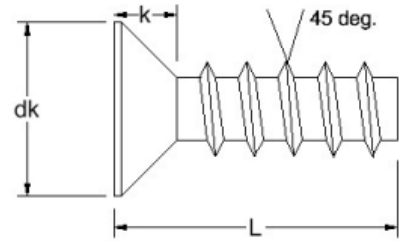
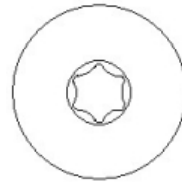
Material Grades: A2: ●

| dk (max) | 6.0 | 8.0 | 9.6 | | | | | | | | | | | | | | | |
|------------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #2 | #2 | | | | | | | | | | | | | | | |
| k (max) | 1.60 | 2.00 | 2.30 | | | | | | | | | | | | | | | |
| length/dim | 3.5 | 4.0 | 5.0 | | | | | | | | | | | | | | | |
| 6 | ● | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | | | | | | | | | | | | | | | | |
| 10 | ● | ● | | | | | | | | | | | | | | | | |
| 12 | ● | ● | | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | | | | | | | | | | | | | | | |
| 25 | ● | ● | ● | | | | | | | | | | | | | | | |

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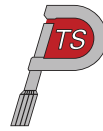
POLYFIX 45 SENKKOPFSCHRAUBEN FÜR THERMOPLASTE MIT INNENVIELZAHN



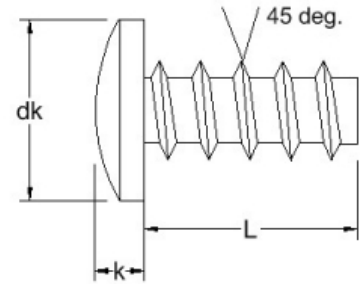
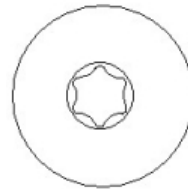
Material Grades: A2: ●

| dk (max) | 5.5 | 6.3 | 7.35 | | | | | | | | | | | | | | | |
|------------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | TX8 | TX10 | TX15 | | | | | | | | | | | | | | | |
| k (max) | 1.60 | 1.65 | 1.90 | | | | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | | | | | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | | | | | | | | | | | | | | | |

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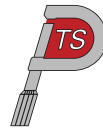
POLYFIX 45 LINSENKOPFSCHRAUBEN FÜR THERMOPLASTE MIT INNENVIELZAHN



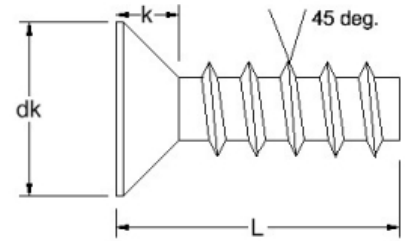
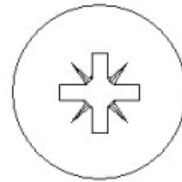
Material Grades: A2: ●

| dk (max) | 5.0 | 6.0 | 7.0 | | | | | | | | | | | | | | | | |
|------------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | TX8 | TX10 | TX15 | | | | | | | | | | | | | | | | |
| k (max) | 1.95 | 2.3 | 2.45 | | | | | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | | | | | | | | | | | | | | | | |

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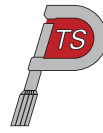
POLYFIX 45 SENKKOPFSCHRAUBEN FÜR THERMOPLASTE - POZIDRIVE



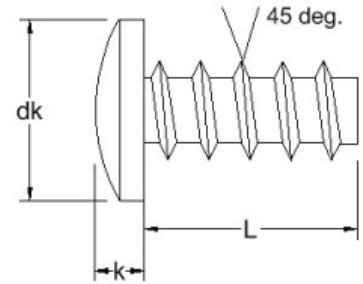
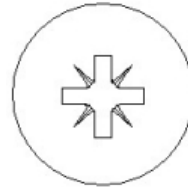
Material Grades: A2: ●

| dk (max) | 5.5 | 6.3 | 7.35 | | | | | | | | | | | | | | | | |
|------------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #1 | #2 | | | | | | | | | | | | | | | | |
| k (max) | 1.60 | 1.65 | 1.90 | | | | | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | | | | | | | | | | | | | | | | |
| 6 | | ● | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | | | | | | | | | | | | | | | | |

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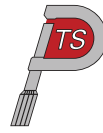
POLYFIX 45 LINSENKOPFSCHRAUBEN FÜR THERMOPLASTE - POZIDRIVE



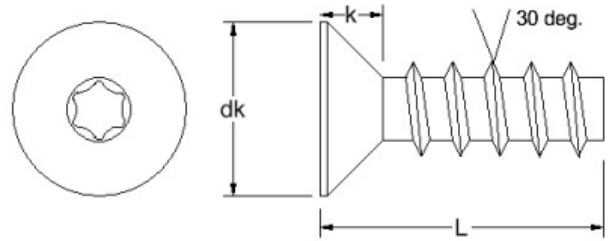
Material Grades: A2: ●

| dk (max) | 4.0 | 5.0 | 6.0 | 7.0 | | | | | | | | | | | | | | |
|------------|-----|------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #1 | #1 | #2 | | | | | | | | | | | | | | |
| k (max) | 1.6 | 1.95 | 2.3 | 2.45 | | | | | | | | | | | | | | |
| length/dim | 2.5 | 3.0 | 3.5 | 4.0 | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | | | ● | ● | | | | | | | | | | | | | | |

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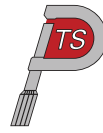
POLYTECH 30 SENKKOPFSCHRAUBEN FÜR THERMOPLASTE MIT INNENVIELZAHN



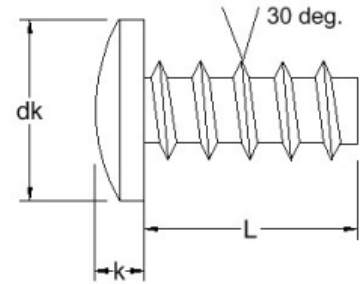
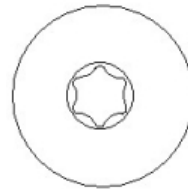
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 5.5 | 7.3 | 8.4 | 9.3 | | | | | | | | | | | | | | | |
| Drive | TX10 | TX10 | TX20 | TX20 | | | | | | | | | | | | | | | |
| k (max) | 2.05 | 2.80 | 3.25 | 3.40 | | | | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | 5.0 | | | | | | | | | | | | | | | |
| 6 | ● | | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | | | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 20 | | | ● | ● | | | | | | | | | | | | | | | |
| 25 | | | | ● | | | | | | | | | | | | | | | |

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POLYTECH 30 LINSENKOPFSCHRAUBEN FÜR THERMOPLASTE MIT INNENVIELZAHN



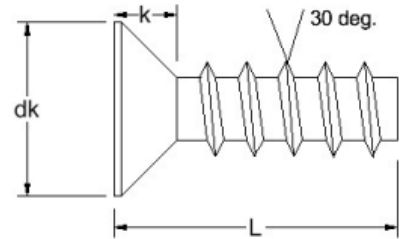
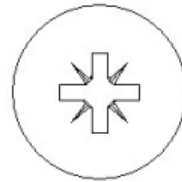
Material Grades: A2: ●

| dk (max) | 4.2 | 5.6 | 6.9 | 7.5 | 8.2 | | | | | | | | | | | | | | |
|------------|-----|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | TX7 | TX10 | TX10 | TX20 | TX20 | | | | | | | | | | | | | | |
| k (max) | 1.6 | 2.1 | 2.3 | 2.6 | 2.9 | | | | | | | | | | | | | | |
| length/dim | 2.5 | 3.0 | 3.5 | 4.0 | 5.0 | | | | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 14 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 18 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 20 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | | | | ● | ● | | | | | | | | | | | | | | |
| 30 | | | | | ● | | | | | | | | | | | | | | |

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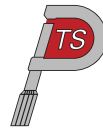
POLYTECH 30 SENKKOPFSCHRAUBEN FÜR THERMOPLASTE - POZIDRIVE



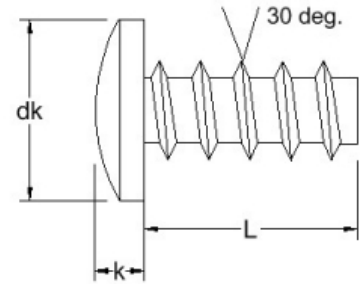
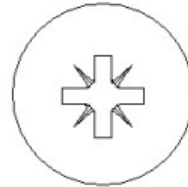
Material Grades: A2: ●

| dk (max) | 5.5 | 7.3 | 8.4 | | | | | | | | | | | | |
|------------|------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #2 | #2 | | | | | | | | | | | | |
| k (max) | 2.05 | 2.8 | 3.25 | | | | | | | | | | | | |
| length/dim | 3.0 | 3.5 | 4.0 | | | | | | | | | | | | |
| 8 | ● | ● | | | | | | | | | | | | | |
| 10 | ● | ● | ● | | | | | | | | | | | | |
| 12 | ● | ● | ● | | | | | | | | | | | | |
| 14 | | ● | ● | | | | | | | | | | | | |
| 16 | | ● | ● | | | | | | | | | | | | |

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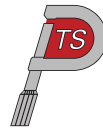
POLYTECH 30 LINSENKOPFSCHRAUBEN FÜR THERMOPLASTE - POZIDRIVE



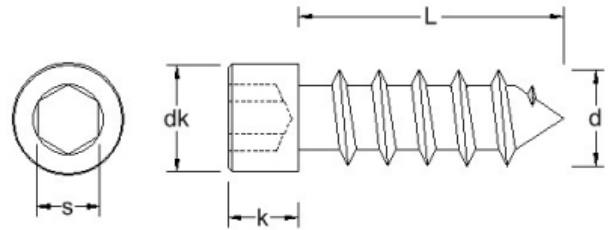
Material Grades: A2: ●

| dk (max) | 3.9 | 5.3 | 6.1 | 7.0 | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #1 | #2 | #2 | | | | | | | | | | | | | |
| k (max) | 1.5 | 2.0 | 2.5 | 2.7 | | | | | | | | | | | | | |
| length/dim | 2.5 | 3.0 | 3.5 | 4.0 | | | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 10 | | ● | ● | ● | | | | | | | | | | | | | |
| 12 | | ● | ● | ● | | | | | | | | | | | | | |
| 14 | | ● | ● | ● | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | | | | | | | | | | | | | |
| 18 | | ● | ● | ● | | | | | | | | | | | | | |
| 20 | | ● | ● | ● | | | | | | | | | | | | | |
| 25 | | | ● | ● | | | | | | | | | | | | | |

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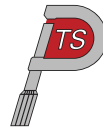
ZYLINDERKOPF-BLECHSCHRAUBEN MIT SPITZE



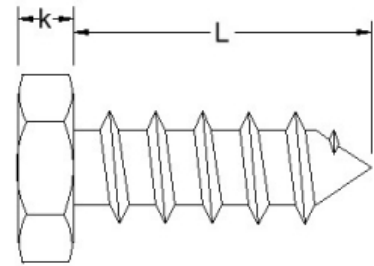
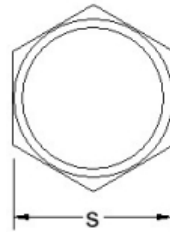
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 8.5 | 10 | 10 | | | | | | | | | | | | | | | | | |
| k (max) | 5 | 6 | 6 | | | | | | | | | | | | | | | | | |
| s | 4 | 5 | 5 | | | | | | | | | | | | | | | | | |
| length/dim | NO.10 | NO.12 | NO.14 | | | | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | | | | | | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ● | | | | | | | | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 1.1/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 1.1/2 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 1.5/8 | | ●▲ | | | | | | | | | | | | | | | | | | |
| 1.3/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 2 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 2.1/4 | ● | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 2.1/2 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 2.3/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |

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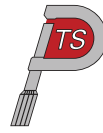
SECHSKANT-BLECHSCHRAUBEN, DIN 7976 FORM C MIT SPITZE



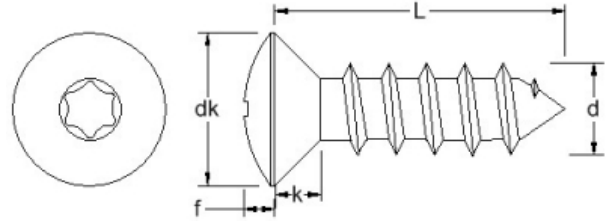
Material Grades: A2: ●

| k (max) | * | 2.42 | 2.42 | 2.92 | 3.12 | 4.15 | 4.95 | 5.95 | | | | | | | | | |
|------------|------|------|------|------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| s | * | 5.5 | 7 | 7 | 8 | 8 | 10 | 13 | | | | | | | | | |
| length/dim | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | NO.16 | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 7/8 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.1/4 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.1/2 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.3/4 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 2 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 2.1/4 | | | | | ● | | ● | | | | | | | | | | |
| 2.1/2 | | | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 2.3/4 | | | | ● | ● | ● | ● | ● | | | | | | | | | |
| 3 | | | | | ● | ● | ● | | | | | | | | | | |
| 3.1/2 | | | | | ● | ● | ● | | | | | | | | | | |
| 4 | | | | | ● | ● | ● | | | | | | | | | | |
| 4.1/2 | | | | | ● | ● | ● | | | | | | | | | | |
| 5 | | | | | ● | ● | ● | | | | | | | | | | |

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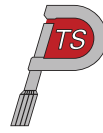
LINSENSENK-BLECHSCHRAUBEN, DIN 7983 FORM C MIT SPITZE, MIT INNENVIELZAHN - TX



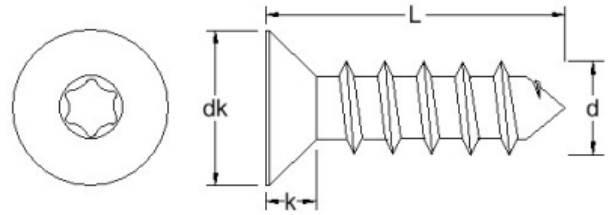
Material Grades: A2: ● A4: ▲

| dk (max) | | 5.5 | 6.8 | 7.5 | 8.1 | 9.5 | 10.8 | 12.4 | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| f (max) | | 0.9 | 1.2 | 1.3 | 1.4 | 1.5 | 1.7 | 2 | | | | | | | | | | |
| k (max) | | 1.7 | 2.1 | 2.3 | 2.5 | 3 | 3.4 | 3.8 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 7/8 | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/4 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ▲ | ●▲ | | | | | | | | | | |
| 2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/2 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.3/4 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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SENK-BLECHSCHRAUBEN, DIN 7982 FORM C MIT SPITZE, MIT INNENVIELZAHN - TX



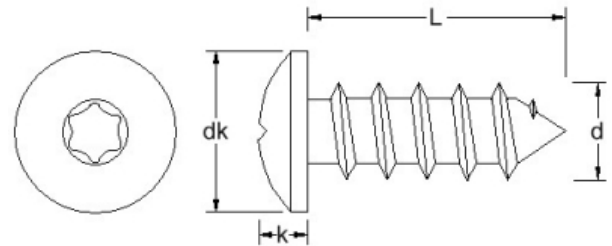
Material Grades: A2: ● A4: ▲

| dk (max) | 4.3 | 5.5 | 6.8 | 7.5 | 8.1 | 9.5 | 10.8 | 12.4 | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| k (max) | 1.3 | 1.7 | 2.1 | 2.3 | 2.5 | 3 | 3.4 | 3.8 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/4 | | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/2 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.3/4 | | | | | | | ●▲ | ●▲ | | | | | | | | | | |
| 3 | | | | | ▲ | | ●▲ | ●▲ | | | | | | | | | | |

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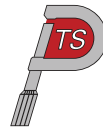
LINSEN-BLECHSCHRAUBEN, DIN 7981 FORM C MIT SPITZE), MIT INNENVIELZAHN - TX



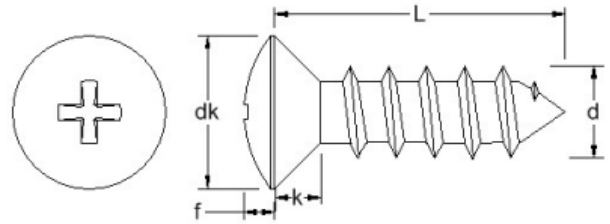
Material Grades: A2: ● A4: ▲

| dk (max) | 4.2 | 5.6 | 6.9 | 7.5 | 8.2 | 9.5 | 10.8 | 12.5 | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| k (max) | 1.8 | 2.2 | 2.6 | 2.8 | 3.05 | 3.55 | 3.95 | 4.55 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/4 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/2 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.3/4 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3 | | | | | | | ▲ | ●▲ | | | | | | | | | | |

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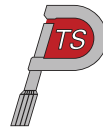
LINSENSENK-BLECHSCHRAUBEN, DIN 7983 FORM C MIT SPITZE, KREUZSCHLITZ - PHILLIPS



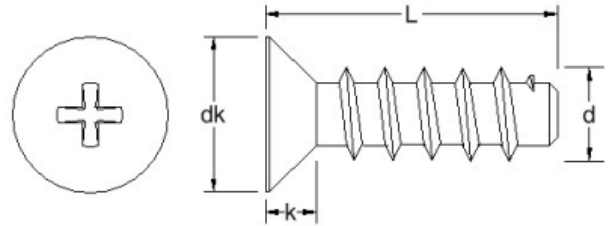
Material Grades: A2: ● A4: ▲

| 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 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ● | | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | | ●▲ | ● | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/4 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/2 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.3/4 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3 | | | | | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3.1/2 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 4 | | | | | | ●▲ | ●▲ | ▲ | | | | | | | | | | |
| 5 | | | | | | ● | | | | | | | | | | | | |

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SENK-BLECHSCHRAUBEN, DIN 7982 FORM F MIT ZAPFEN, KREUZSCHLITZ - PHILLIPS



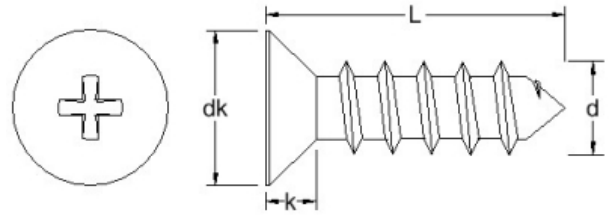
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 5.5 | 6.8 | 7.5 | 8.1 | 9.5 | 10.8 | | | | | | | | | | | | |
| k (max) | 1.7 | 2.1 | 2.3 | 2.5 | 3 | 3.4 | | | | | | | | | | | | |
| length/dim | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | | | | | | | | | | | | |
| 3/8 | ● | | | | | | | | | | | | | | | | | |
| 1/2 | ● | ● | | ● | ● | | | | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 3/4 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 7/8 | | ● | ● | | ● | ● | | | | | | | | | | | | |
| 1 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1.1/4 | | | ● | ● | ● | | | | | | | | | | | | | |

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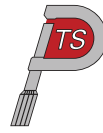
SENK-BLECHSCHRAUBEN, DIN 7982 FORM C MIT SPITZE, KREUZSCHLITZ - PHILLIPS



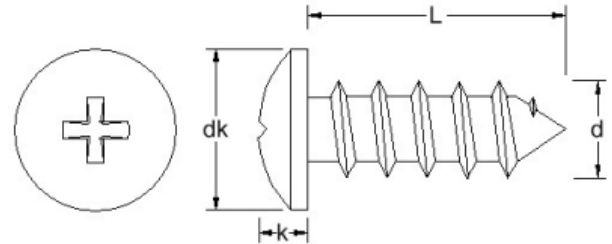
Material Grades: A2: ● A4: ▲

| dk (max) | 4.3 | 5.5 | 6.8 | 7.5 | 8.1 | 9.5 | 10.8 | 12.4 | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| k (max) | 1.3 | 1.7 | 2.1 | 2.3 | 2.5 | 3 | 3.4 | 3.8 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/4 | | | | ● | | ● | ● | | | | | | | | | | | |
| 2.1/2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3.1/2 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 4 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5 | | | | | | ● | ● | | | | | | | | | | | |

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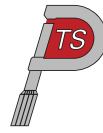
LINSEN-BLECHSCHRAUBEN, DIN 7981 FORM C MIT SPITZE, KREUZSCHLITZ - PHILLIPS



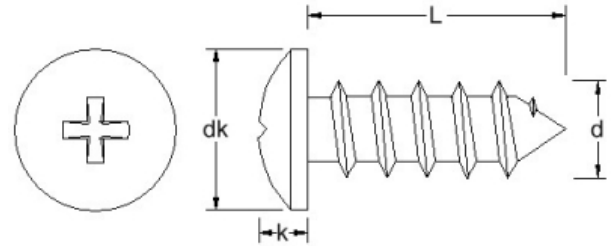
Material Grades: A2: ● A4: ▲

| dk (max) | 4.2 | 5.6 | 6.9 | 7.5 | 8.2 | 9.5 | 10.8 | 12.5 | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| k (max) | 1.8 | 2.2 | 2.6 | 2.8 | 3.05 | 3.55 | 3.95 | 4.55 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 3/16 | ●▲ | | | | | | | | | | | | | | | | | |
| 5 | | | | | | ● | ● | | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/4 | | | | | ● | ● | ● | | | | | | | | | | | |
| 2.1/2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3.1/2 | | | | | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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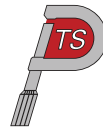
LINSEN-BLECHSCHRAUBEN, DIN 7981 FORM C MIT SPITZE, KREUZSCHLITZ - PHILLIPS



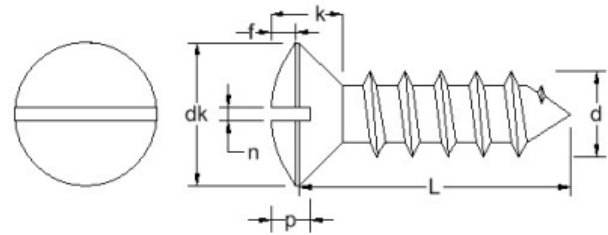
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 4.2 | 5.6 | 6.9 | 7.5 | 8.2 | 9.5 | 10.8 | 12.5 | | | | | | | | | | |
| k (max) | 1.8 | 2.2 | 2.6 | 2.8 | 3.05 | 3.55 | 3.95 | 4.55 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 4 | | | | | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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LINSENSENK-BLECHSCHRAUBEN MIT SCHLITZ, DIN 7973 FORM C MIT SPITZE

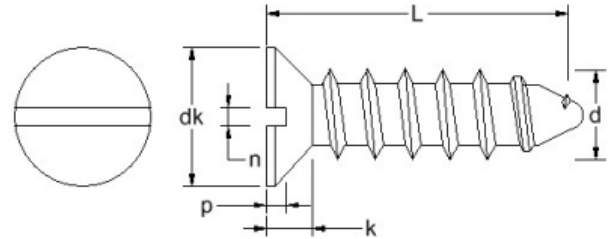


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 4.3 | 5.5 | 6.8 | 7.5 | 8.1 | 9.5 | 10.8 | 12.4 | | | | | | | | | | |
| f | * | 0.9 | 1.2 | 1.3 | 1.4 | * | * | * | | | | | | | | | | |
| k | 1.3 | 1.7 | 2.1 | 2.3 | 2.5 | 3 | 3.4 | 3.8 | | | | | | | | | | |
| n | 0.6 | 0.8 | 1 | 1 | 1.2 | 1.2 | 1.6 | 1.6 | | | | | | | | | | |
| p (max) | 1.15 | 1.5 | 1.9 | 2.05 | 2.25 | 2.6 | 2.95 | 3.45 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 1/4 | ● | ● | ● | | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 7/8 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/2 | | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.3/4 | | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 2 | | | | | ● | ● | ● | ● | | | | | | | | | | |
| 2.1/2 | | | | | | | ● | ● | | | | | | | | | | |
| 2.3/4 | | | | | | | ● | | | | | | | | | | | |

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SENK-BLECHSCHRAUBEN MIT SCHLITZ, DIN 7972 FORM C MIT SPITZE

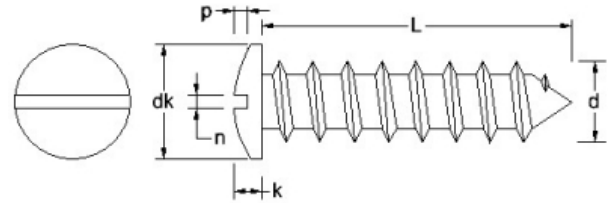


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 4.3 | 5.5 | 6.8 | 7.5 | 8.1 | 9.5 | 10.8 | 12.4 | | | | | | | | | | |
| k | 1.3 | 1.7 | 2.1 | 2.3 | 2.5 | 3 | 3.4 | 3.8 | | | | | | | | | | |
| n | 0.6 | 0.8 | 1 | 1 | 1.2 | 1.2 | 1.6 | 1.6 | | | | | | | | | | |
| p (max) | 0.6 | 0.75 | 0.95 | 1.05 | 1.15 | 1.35 | 1.5 | 1.75 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 1/4 | ● | ● | ● | | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 7/8 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/4 | | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/2 | | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.3/4 | | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 2 | | | | | ● | ● | ● | ● | | | | | | | | | | |
| 2.1/2 | | | | | | ● | ● | ● | | | | | | | | | | |
| 2.3/4 | | | | | | ● | ● | ● | | | | | | | | | | |
| 3 | | | | | | ● | | ● | | | | | | | | | | |

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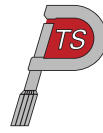
ZYLINDER-BLECHSCHRAUBEN MIT SCHLITZ, DIN 7971 FORM C MIT SPITZE



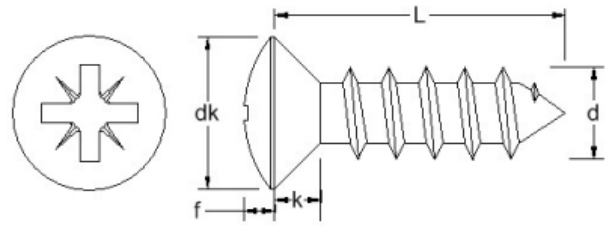
Material Grades: A2: ●

| dk (max) | 4.2 | 5.6 | 6.9 | 7.5 | 8.2 | 9.5 | 10.8 | 12.5 | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| k (max) | 1.35 | 1.75 | 2.1 | 2.25 | 2.45 | 2.8 | 3.2 | 3.65 | | | | | | | | | | |
| n | 0.6 | 0.8 | 1 | 1 | 1.2 | 1.2 | 1.6 | 1.6 | | | | | | | | | | |
| p (max) | 0.8 | 1 | 1.25 | 1.4 | 1.5 | 1.7 | 1.95 | 2.2 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 5/16 | | | ● | | | | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 7/8 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/2 | | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.3/4 | | | | | ● | ● | ● | ● | | | | | | | | | | |
| 2 | | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 2.1/2 | | | | | | ● | ● | ● | | | | | | | | | | |
| 2.3/4 | | | | | | ● | ● | ● | | | | | | | | | | |
| 3 | | | | | | ● | ● | | | | | | | | | | | |
| 4 | | | | | | ● | | | | | | | | | | | | |

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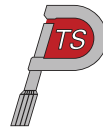
LINSENSENK-BLECHSCHRAUBEN MIT KREUZSCHLITZ DIN 7983 FORM C MIT SPITZE - POZIDRIVE



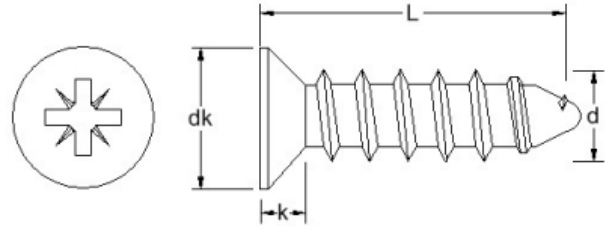
Material Grades: A2: ● A4: ▲

| 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 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 7/8 | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/4 | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.3/4 | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2 | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/2 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.3/4 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3.1/2 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 4 | | | | | | ● | ● | ●▲ | | | | | | | | | | |

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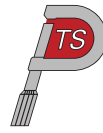
SENK-BLECHSCHRAUBEN MIT KREUZSCHLITZ DIN 7982 FORM C MIT SPITZE - POZIDRIVE



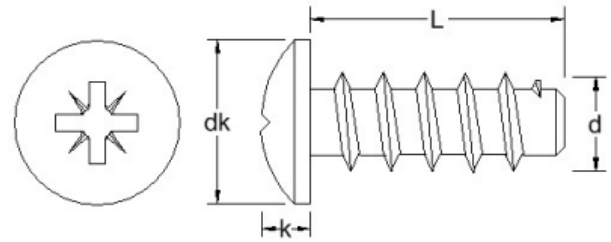
Material Grades: A2: ● A4: ▲

| dk (max) | 4.3 | 5.5 | 6.8 | 7.5 | 8.1 | 9.5 | 10.8 | 12.4 | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| k (max) | 1.3 | 1.7 | 2.1 | 2.3 | 2.5 | 3 | 3.4 | 3.8 | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | | |
| 3/16 | ●▲ | | | | | | | | | | | | | | | | | |
| 5/16 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/4 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.3/4 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3 | | | | ● | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3.1/2 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/2 | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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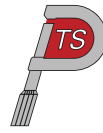
LINSEN-BLECHSCHRAUBEN MIT KREUZSCHLITZ DIN 7981 FORM F MIT ZAPFEN - POZIDRIVE



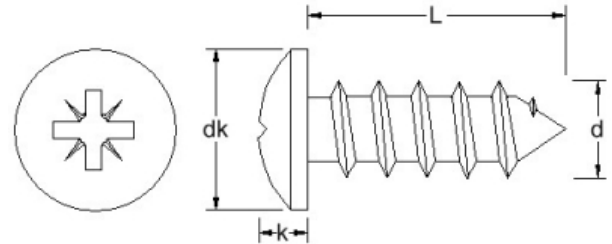
Material Grades: A2: ●

| dk (max) | 4.2 | 5.6 | 6.9 | 7.5 | 8.2 | 9.5 | 10.8 | | | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 1.8 | 2.2 | 2.6 | 2.8 | 3.05 | 3.55 | 3.95 | | | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | | | | | | | | | | | |
| 3/16 | ● | | | | | | | | | | | | | | | | | |
| 5/16 | ● | ● | ● | | | | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | | ● | ● | ● | | | | | | | | | | | |
| 5/8 | | ● | | ● | ● | ● | | | | | | | | | | | | |
| 3/4 | | ● | | ● | ● | ● | | | | | | | | | | | | |
| 7/8 | | | | | ● | | | | | | | | | | | | | |
| 1 | | | | ● | | ● | ● | | | | | | | | | | | |

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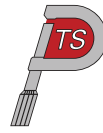
LINSEN-BLECHSCHRAUBEN MIT KREUZSCHLITZ, DIN 7985 FORM C MIT SPITZE - POZIDRVE



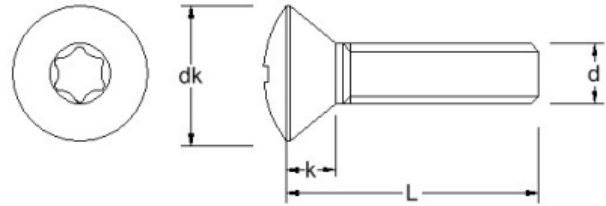
Material Grades: A2: ● A4: ▲

| dk (max) | 4.2 | 5.6 | 6.9 | 7.5 | 8.2 | 9.5 | 10.8 | 12.5 | | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| k (max) | 1.8 | 2.2 | 2.6 | 2.8 | 3.05 | 3.55 | 3.95 | 4.55 | | | | | | | | | |
| length/dim | NO.2 | NO.4 | NO.6 | NO.7 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | | |
| 3/16 | ● | ● | | | | | | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 5/16 | ● | ● | ●▲ | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1.1/4 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1.1/2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 2.1/2 | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 2.3/4 | | | | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 3 | | | | ▲ | ▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 3.1/2 | | | | | | | ●▲ | ▲ | | | | | | | | | |

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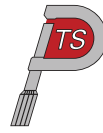
LINSEN-SENKSCHRAUBEN MIT INNENVIELZAHN, DIN 966 TX



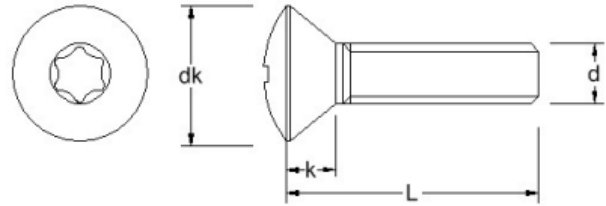
Material Grades: A2: ● A4: ▲

| dk | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | | | | | | | | | | | | |
|------------|------|------|------|-----|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | T6 | T8 | T10 | T20 | T25 | T30 | | | | | | | | | | | | |
| f | 0.5 | 0.6 | 0.75 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | |
| k | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | | | | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 3 | ●▲ | | | | | | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 22 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 28 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |

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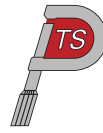
LINSEN-SENKSCHRAUBEN MIT INNENVIELZAHN, DIN 966 TX



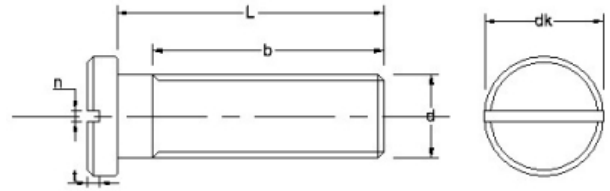
Material Grades: A2: ● A4: ▲

| dk | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | | | | | | | | | | | | |
|------------|------|------|------|-----|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| Drive | T6 | T8 | T10 | T20 | T25 | T30 | | | | | | | | | | | | |
| f | 0.5 | 0.6 | 0.75 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | |
| k | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | | | | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | | | | | | | | | | | | |
| 40 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 65 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 70 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 75 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 80 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 55 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 100 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |
| 35 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 85 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |
| 90 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |
| 95 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |

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FLACHKOPFSCHRAUBEN MIT SCHLITZ UND KLEINEM KOPF DIN 920

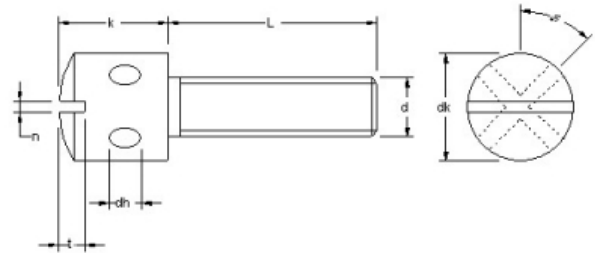


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|-----|-----|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|
| b (min) | 6 | 9 | 12 | 15 | 18 | | | | | | | | | | | | | |
| dk | 2.8 | 4.0 | 5.5 | 6.5 | 8 | | | | | | | | | | | | | |
| k | 1.2 | 1.8 | 2.4 | 2.7 | 3.1 | | | | | | | | | | | | | |
| n | 0.30 | 0.50 | 0.6 | 0.8 | 1.0 | | | | | | | | | | | | | |
| Pitch | 0.4 | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | |
| t | 0.60 | 0.90 | 1.2 | 1.3 | 1.5 | | | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | | | | | | | | | | | | |
| 4 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 5 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 6 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 12 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 20 | | | | | ● | ● | | | | | | | | | | | | |
| 25 | | | | | | ● | | | | | | | | | | | | |

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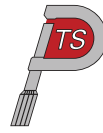
KREUZLOCHSCHRAUBEN MIT SCHLITZ, DIN 404



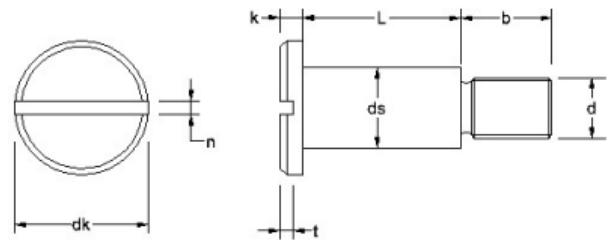
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dh | 1.5 | 2.0 | 2.5 | 3.0 | | | | | | | | | | | | | | |
| dk | 5.5 | 7.0 | 8.5 | 10.0 | | | | | | | | | | | | | | |
| k | 4.0 | 5.0 | 6.5 | 8.0 | | | | | | | | | | | | | | |
| n | 0.8 | 1.0 | 1.2 | 1.6 | | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | | |
| t (min) | 1.0 | 1.4 | 1.7 | 2.2 | | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | | | | | | | | | | | | | | |
| 4 | ● | | | | | | | | | | | | | | | | | |
| 5 | ● | ● | | | | | | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | | ● | ● | ● | | | | | | | | | | | | | | |
| 30 | | ● | ● | ● | | | | | | | | | | | | | | |

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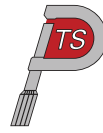
FLACHKOPFSCHRAUBEN MIT SCHLITZ UND ANSATZ, DIN 923



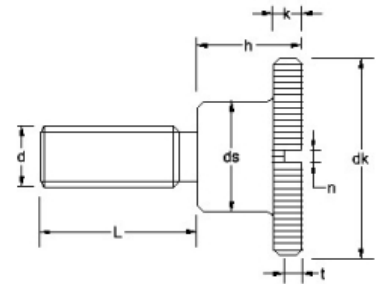
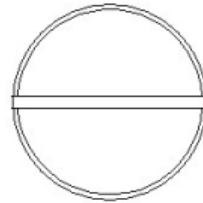
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b | 4.5 | 6.0 | 7.0 | 9.0 | 11.0 | | | | | | | | | | | | | | |
| dk | 7.0 | 8.5 | 11.0 | 13.0 | 16.0 | | | | | | | | | | | | | | |
| ds | 4.0 | 5.5 | 7.0 | 8.0 | 10.0 | | | | | | | | | | | | | | |
| k | 1.8 | 2.4 | 2.7 | 3.1 | 3.8 | | | | | | | | | | | | | | |
| n | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | | | | |
| t (min) | 0.9 | 1.2 | 1.3 | 1.5 | 1.9 | | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | | | | | | | | | | | | | | |
| 2 | ● | ● | | | | | | | | | | | | | | | | | |
| 2.5 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 3 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 4 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 5 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | | | | ● | | | | | | | | | | | | | | | |

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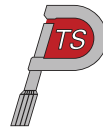
RÄNDELSCHRAUBEN, HOHE FORM, MIT SCHLITZ, DIN 465



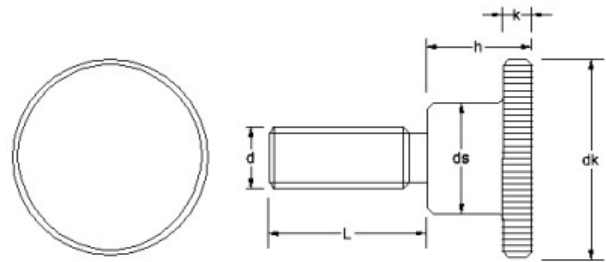
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 12 | 16 | 20 | 24 | | | | | | | | | | | | | | | |
| ds | 6 | 8 | 10 | 12 | | | | | | | | | | | | | | | |
| h | 7.5 | 9.5 | 11.5 | 15.0 | | | | | | | | | | | | | | | |
| k | 2.5 | 3.5 | 4.0 | 5.0 | | | | | | | | | | | | | | | |
| n | 0.8 | 1.0 | 1.2 | 1.6 | | | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | | | |
| t (min) | 1.8 | 2.2 | 2.8 | 3.5 | | | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | | | | | | | | | | | | | | | |

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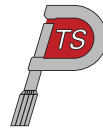
RÄNDELSCHRAUBEN, HOHE FORM, DIN 464



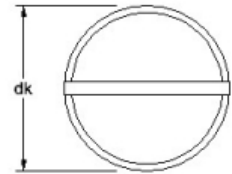
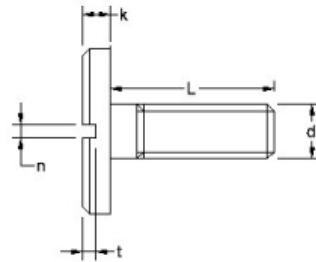
Material Grades: A2: ●

| dk | 12 | 16 | 20 | 24 | 30 | 36 | | | | | | | | | | | | |
|------------|-----|-----|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| ds | 6 | 8 | 10 | 12 | 16 | 20 | | | | | | | | | | | | |
| h | 7.5 | 9.5 | 11.5 | 15.0 | 18.0 | 23.0 | | | | | | | | | | | | |
| k | 2.5 | 3.5 | 4.0 | 5.0 | 6.0 | 8.0 | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | |
| 4 | ● | | | | | | | | | | | | | | | | | |
| 5 | ● | ● | | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 25 | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 30 | | ● | | ● | ● | ● | | | | | | | | | | | | |

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FLACHKOPFSCHRAUBEN MIT SCHLITZ UND GROßEM KOPF, DIN 921

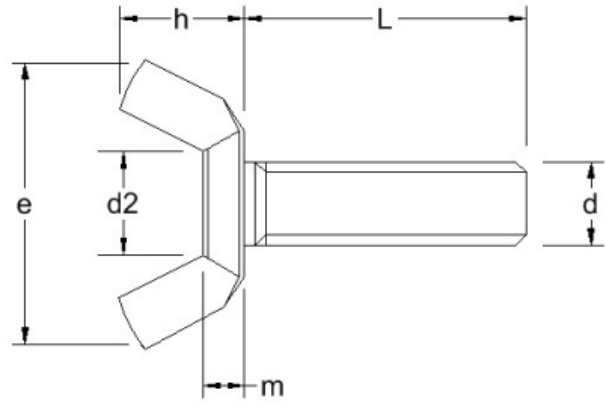
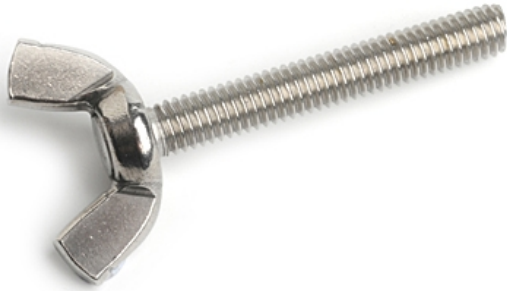


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|-----|-----|-----|-----|------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 6 | 8 | 12 | 16 | 20 | 25 | | | | | | | | | | | | | |
| k | 1.2 | 1.8 | 2.4 | 2.7 | 3.1 | 3.8 | | | | | | | | | | | | | |
| n | 0.63 | 0.9 | 1.1 | 1.4 | 1.6 | 2.0 | | | | | | | | | | | | | |
| Pitch | 0.4 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | | | |
| t (min) | 0.6 | 0.9 | 1.2 | 1.3 | 1.5 | 1.9 | | | | | | | | | | | | | |
| length/dim | M2 | M3 | M4 | M5 | M6 | M8 | | | | | | | | | | | | | |
| 2.5 | ● | | | | | | | | | | | | | | | | | | |
| 3 | ● | | | | | | | | | | | | | | | | | | |
| 4 | ● | ● | | | | | | | | | | | | | | | | | |
| 5 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 6 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 8 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 30 | | | | | ● | ● | | | | | | | | | | | | | |

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FLÜGELSCHRAUBEN, DIN 316 AMERIKANISCHE FORM

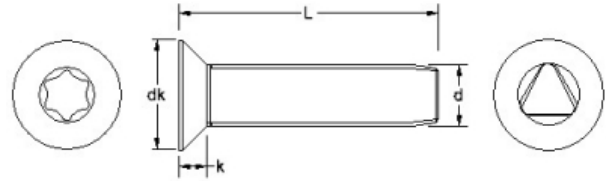


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d2 | 4.5 | 5.2 | 6.7 | 8.4 | 9.1 | 11 | | | | | | | | | | | | | |
| e (min) | 15.3 | 17.6 | 22.5 | 27.8 | 30.3 | 36.2 | | | | | | | | | | | | | |
| h | 7.2 | 8.6 | 11 | 13.6 | 14.8 | 17.7 | | | | | | | | | | | | | |
| m | 2.4 | 2.9 | 4.1 | 5.1 | 5.6 | 6.8 | | | | | | | | | | | | | |
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 35 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 40 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 55 | | | | | ●▲ | ●▲ | | | | | | | | | | | | | |
| 60 | | | | | ●▲ | ●▲ | | | | | | | | | | | | | |

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GEWINDEFURCHENDE SENKSCHRAUBEN, DIN 7500M, KOPF NACH DIN 965 - TX

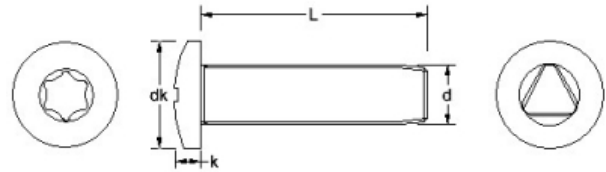


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 4.4 | 5.2 | 8.04 | 8.94 | 11 | | | | | | | | | | | | | |
| k | 1.5 | 1.65 | 2.7 | 2.7 | 3.0 | | | | | | | | | | | | | |
| Pitch | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | |
| length/dim | M2.5 | M3 | M4 | M5 | M6 | | | | | | | | | | | | | |
| 5 | ● | | | | | | | | | | | | | | | | | |
| 6 | ● | ● | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 20 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 30 | | | ● | ● | ● | | | | | | | | | | | | | |

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GEWINDEFURCHENDE LINSENSCHRAUBEN, DIN 7500C, KOPF NACH DIN 7985 - TX

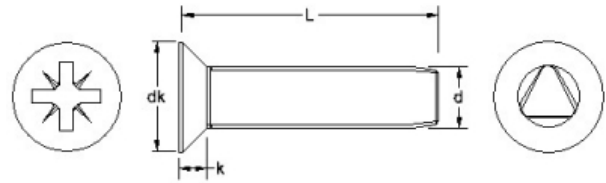


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 4.7 | 5.3 | 7.64 | 9.14 | 11.57 | | | | | | | | | | | | | | |
| k (max) | 1.96 | 2.26 | 2.92 | 3.52 | 4.30 | | | | | | | | | | | | | | |
| Pitch | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | | |
| length/dim | M2.5 | M3 | M4 | M5 | M6 | | | | | | | | | | | | | | |
| 5 | ● | ● | | | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 14 | | | | ● | | | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 30 | | | ● | ● | ● | | | | | | | | | | | | | | |

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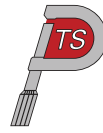
GEWINDEFURCHENDE SENKSCHRAUBEN, DIN 7500M, KOPF NACH DIN 965 - POZIDRIVE



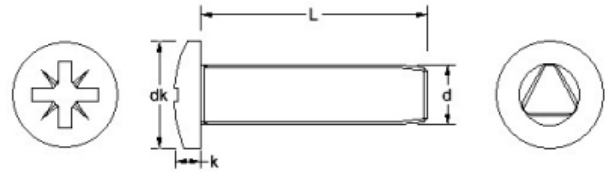
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 4.4 | 5.2 | 8.0 | 8.9 | 11 | | | | | | | | | | | | | | |
| Drive | #1 | #1 | #2 | #2 | #3 | | | | | | | | | | | | | | |
| k (max) | 1.5 | 1.65 | 2.7 | 2.7 | 3.0 | | | | | | | | | | | | | | |
| Pitch | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | | |
| length/dim | M2.5 | M3 | M4 | M5 | M6 | | | | | | | | | | | | | | |
| 5 | ● | ● | | | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 20 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 25 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 30 | | | ● | ● | ● | | | | | | | | | | | | | | |

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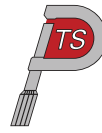
GEWINDEFURCHENDE LINSENSCHRAUBEN, DIN 7500C, KOPF NACH DIN 7985 - POZIDRIVE



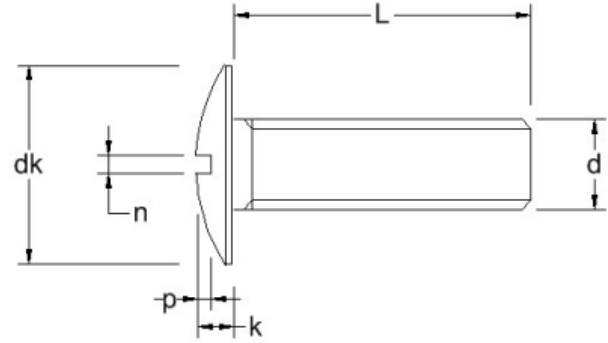
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 4.7 | 5.3 | 7.64 | 9.14 | 11.57 | | | | | | | | | | | | | |
| Drive | #1 | #1 | #2 | #3 | #3 | | | | | | | | | | | | | |
| k (max) | 1.96 | 2.26 | 2.92 | 3.52 | 4.3 | | | | | | | | | | | | | |
| Pitch | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | |
| length/dim | M2.5 | M3 | M4 | M5 | M6 | | | | | | | | | | | | | |
| 5 | ● | ● | | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 20 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | | | ● | ● | ● | | | | | | | | | | | | | |
| 30 | | | ● | ● | ● | | | | | | | | | | | | | |

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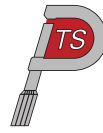
BECHERSCHRAUBEN, NF E 27-128



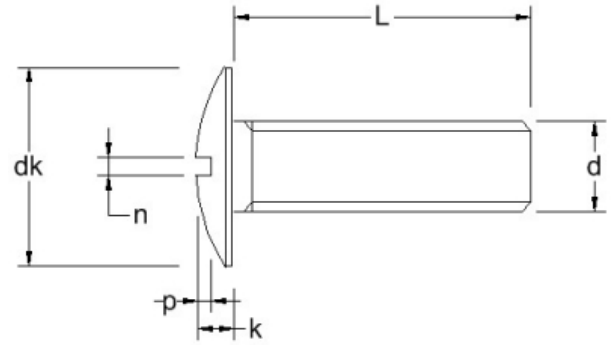
Material Grades: A2: ●

| dk | 6.9 | 10 | 12.5 | 15 | 20 | | | | | | | | | | | | | |
|------------|------|-----|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k(max) | 2.0 | 2.2 | 2.7 | 3.3 | 4.4 | | | | | | | | | | | | | |
| n | 0.80 | 1.0 | 1.2 | 1.6 | 2.0 | | | | | | | | | | | | | |
| p (min) | 0.95 | 1.0 | 1.2 | 1.44 | 1.92 | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | | | | | | | | | | | | | |
| 5 | ● | | | | | | | | | | | | | | | | | |
| 6 | ● | | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 30 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 35 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 40 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 45 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 50 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 60 | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 70 | | ● | ● | ● | ● | | | | | | | | | | | | | |

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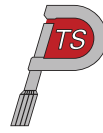
BECHERSCHRAUBEN, NF E 27-128



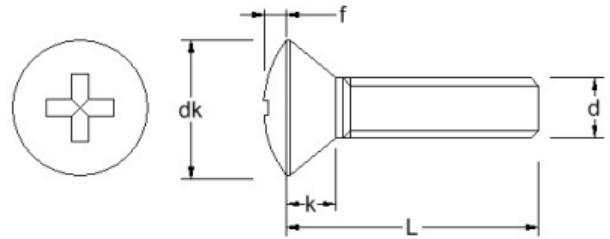
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|-----|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 6.9 | 10 | 12.5 | 15 | 20 | | | | | | | | | | | | | | |
| k(max) | 2.0 | 2.2 | 2.7 | 3.3 | 4.4 | | | | | | | | | | | | | | |
| n | 0.80 | 1.0 | 1.2 | 1.6 | 2.0 | | | | | | | | | | | | | | |
| p (min) | 0.95 | 1.0 | 1.2 | 1.44 | 1.92 | | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | | | | | | | | | | | | | | |
| 80 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 90 | | | ● | ● | ● | | | | | | | | | | | | | | |
| 100 | | | ● | ● | ● | | | | | | | | | | | | | | |

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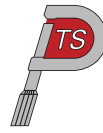
LINSEN-SENKSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, DIN 966 H



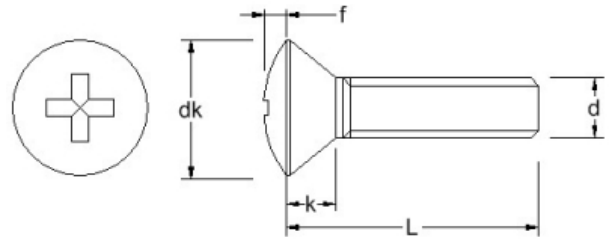
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|-----|------|-----|------|-----|----|--|--|--|--|--|--|--|--|--|
| dk | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | 18 | | | | | | | | | | |
| Drive | #1 | #1 | #1 | #2 | #2 | #3 | #4 | #4 | | | | | | | | | | |
| f | 0.5 | 0.6 | 0.75 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | | | | | | | | | | |
| k | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | 4.0 | 5.0 | | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | |
| 3 | ●▲ | | | | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 22 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 28 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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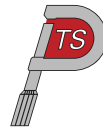
LINSEN-SENKSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, DIN 966 H



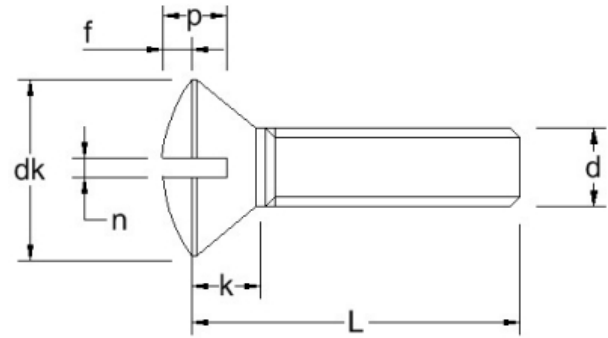
Material Grades: A2: ● A4: ▲

| dk | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | 18 | | | | | | | | | |
|------------|------|------|------|-----|------|-----|------|-----|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #1 | #1 | #2 | #2 | #3 | #4 | #4 | | | | | | | | | |
| f | 0.5 | 0.6 | 0.75 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | | | | | | | | | |
| k | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | 4.0 | 5.0 | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | |
| 35 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 40 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 55 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 65 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 70 | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 75 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 80 | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 85 | | | | | ●▲ | ●▲ | | | | | | | | | | | |
| 90 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 95 | | | | | ▲ | ●▲ | | | | | | | | | | | |
| 100 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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LINSEN-SENKSCHRAUBEN MIT SCHLITZ, DIN 964

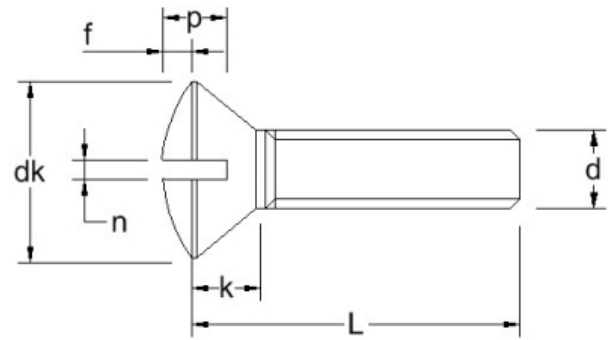


Material Grades: A2: ● A4: ▲

| | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | | | | | | | | | | |
|------------|-----|------|------|-----|------|-----|------|-----|--|--|--|--|--|--|--|--|--|
| dk | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | | | | | | | | | | |
| f | 0.5 | 0.6 | 0.75 | 1.0 | 1.25 | 1.5 | 2.0 | | | | | | | | | | |
| k (max) | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | 4.0 | | | | | | | | | | |
| n | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | | | | | | | | | | |
| p (min) | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | 2.4 | 3.2 | | | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | |
| 4 | ●▲ | | | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 14 | ● | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 18 | ● | | ●▲ | ●▲ | ●▲ | | ●▲ | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 22 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 25 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 30 | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 35 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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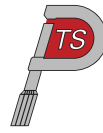
LINSEN-SENKSCHRAUBEN MIT SCHLITZ, DIN 964



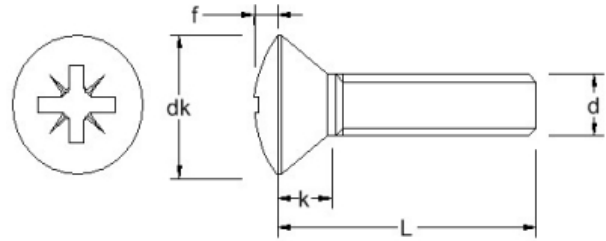
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|------|------|-----|------|-----|------|-----|--|--|--|--|--|--|--|--|--|--|
| dk | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | | | | | | | | | | | |
| f | 0.5 | 0.6 | 0.75 | 1.0 | 1.25 | 1.5 | 2.0 | | | | | | | | | | | |
| k (max) | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | 4.0 | | | | | | | | | | | |
| n | 0.5 | 0.6 | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | | | | | | | | | | | |
| p (min) | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | 2.4 | 3.2 | | | | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | |
| 40 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 55 | | | | ●▲ | ●▲ | ●▲ | | ● | | | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 70 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ▲ | | | | | | | | | | |
| 80 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ▲ | | | | | | | | | | |
| 90 | | | | | ●▲ | ●▲ | ●▲ | ▲ | | | | | | | | | | |
| 95 | | | | | | | ● | | | | | | | | | | | |
| 100 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |

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LINSEN-SENKSCHRAUBEN MIT KREUZSCHLITZ - POZIDRIVE, DIN 966 Z

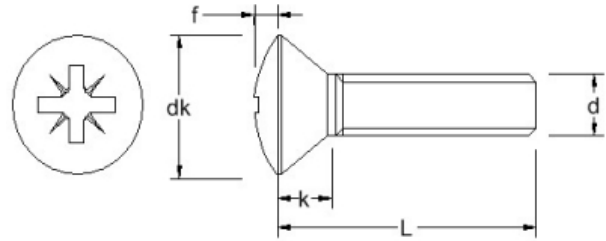


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|-----|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | | | | | | | | | | | | | |
| Drive | #1 | #1 | #1 | #2 | #2 | #3 | | | | | | | | | | | | | |
| f | * | 0.6 | 0.75 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | | |
| k | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | | | | | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | | | | | | | | | | | | | |
| 3 | ●▲ | | | | | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 65 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 70 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 75 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 80 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 55 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |

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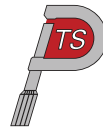
LINSEN-SENKSCHRAUBEN MIT KREUZSCHLITZ - POZIDRIVE, DIN 966 Z



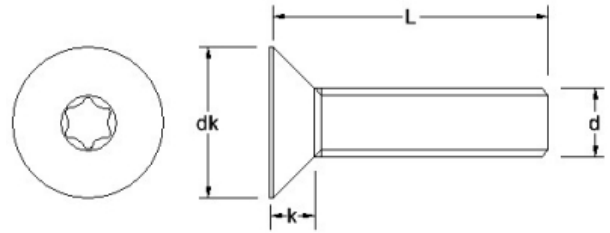
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|-----|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | | | | | | | | | | | | |
| Drive | #1 | #1 | #1 | #2 | #2 | #3 | | | | | | | | | | | | |
| f | * | 0.6 | 0.75 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | |
| k | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | | | | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | | | | | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 28 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 22 | | | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 35 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 40 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 85 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |
| 90 | | | | | ▲ | ●▲ | | | | | | | | | | | | |
| 95 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |
| 100 | | | | | ●▲ | ●▲ | | | | | | | | | | | | |

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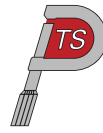
SENKSCHRAUBEN MIT INNENVIELZAHN, DIN 965 TX



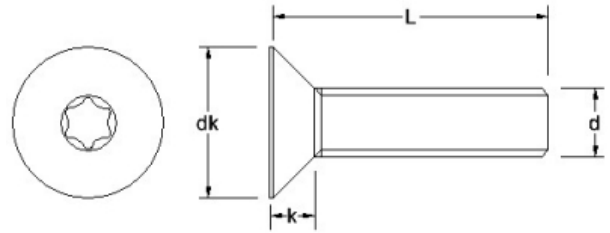
Material Grades: A2: ● A4: ▲

| dk (max) | 3.2 | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | | | | | | | | | |
|------------|------|-----|------|------|-----|-----|-----|------|----|--|--|--|--|--|--|--|--|
| k | 0.96 | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | 4.0 | | | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | | |
| 2 | ●▲ | | | | | | | | | | | | | | | | |
| 3 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 22 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 25 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 28 | | | | | | ●▲ | | | | | | | | | | | |
| 30 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 35 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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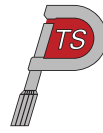
SENKSCHRAUBEN MIT INNENVIELZAHN, DIN 965 TX



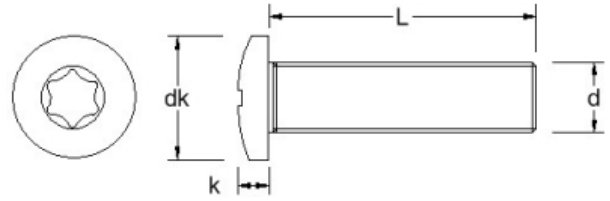
Material Grades: A2: ● A4: ▲

| dk (max) | 3.2 | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | | | | | | | | | |
|------------|------|-----|------|------|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|
| k | 0.96 | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | 4.0 | | | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | | |
| 40 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 45 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 50 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 55 | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 65 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 70 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 75 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 80 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 85 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 90 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 95 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 100 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 110 | | | | | | | ●▲ | | | | | | | | | | |
| 120 | | | | | | | ●▲ | | | | | | | | | | |
| 130 | | | | | | | ●▲ | | | | | | | | | | |
| 140 | | | | | | | ●▲ | | | | | | | | | | |

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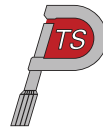
LINSENSCHRAUBEN MIT INNENVIELZAHN, DIN 7985 TX



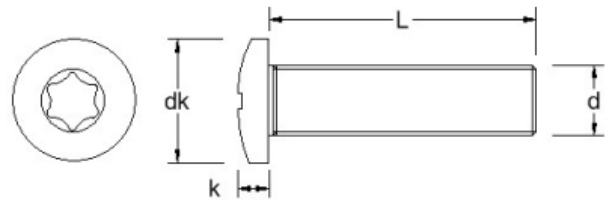
Material Grades: A2: ● A4: ▲

| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | | |
|------------|------|----|------|----|----|----|----|----|----|--|--|--|--|--|--|--|--|
| 2 | ●▲ | | | | | | | | | | | | | | | | |
| 3 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 22 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 25 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 28 | | | ●▲ | ●▲ | ▲ | ●▲ | ●▲ | | | | | | | | | | |
| 30 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 35 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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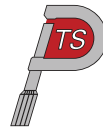
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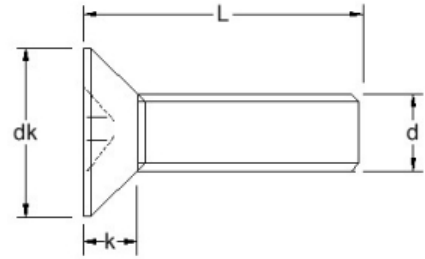
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|
| dk (max) | 3.2 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | | | | | | | | | |
| k (max) | 1.42 | 1.72 | 2.12 | 2.52 | 3.25 | 3.95 | 4.75 | 6.15 | | | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | | |
| 40 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 45 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 50 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 55 | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 60 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 65 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 70 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 75 | | | | | ●▲ | ●▲ | ● | | | | | | | | | | |
| 80 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 90 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 100 | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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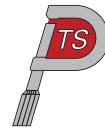
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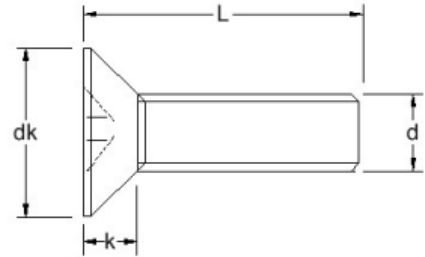
Material Grades: A2: ● A4: ▲

| dk | 2.6 | 3.0 | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | 18 | | | | | | |
|------------|------|------|-----|------|------|-----|-----|-----|------|-----|--|--|--|--|--|--|
| Drive | #0 | #0 | #0 | #1 | #1 | #2 | #2 | #3 | #4 | #4 | | | | | | |
| k (max) | 0.9 | 0.96 | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | 4.0 | 5.0 | | | | | | |
| Pitch | 0.30 | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | |
| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | |
| 2 | ● | ●▲ | | | | | | | | | | | | | | |
| 3 | ● | ●▲ | ●▲ | | | | | | | | | | | | | |
| 4 | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 5 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 6 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 8 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 10 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 12 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 18 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 20 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 14 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 16 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 22 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 25 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 30 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 35 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |

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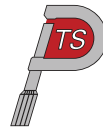
SENKSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, DIN 965 H



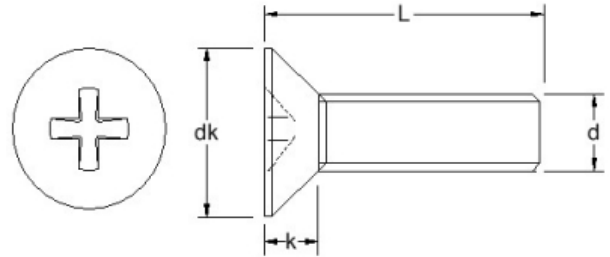
Material Grades: A2: ● A4: ▲

| dk | 2.6 | 3.0 | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | 18 | | | | | | | |
|------------|------|------|-----|------|------|-----|-----|-----|------|-----|--|--|--|--|--|--|--|
| Drive | #0 | #0 | #0 | #1 | #1 | #2 | #2 | #3 | #4 | #4 | | | | | | | |
| k (max) | 0.9 | 0.96 | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | 4.0 | 5.0 | | | | | | | |
| Pitch | 0.30 | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | |
| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | |
| 40 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 45 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 50 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 55 | | | | | | | ▲ | ●▲ | | | | | | | | | |
| 60 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 65 | | | | | | | | ●▲ | | | | | | | | | |
| 70 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 75 | | | | | | | | ●▲ | ● | | | | | | | | |
| 80 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 85 | | | | | | | ● | ●▲ | | | | | | | | | |
| 90 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 95 | | | | | | | ● | | | | | | | | | | |
| 100 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 110 | | | | | | | | | ● | | | | | | | | |
| 120 | | | | | | | | | ● | | | | | | | | |
| 130 | | | | | | | | | ● | | | | | | | | |

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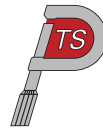
SENKSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, DIN 965 H



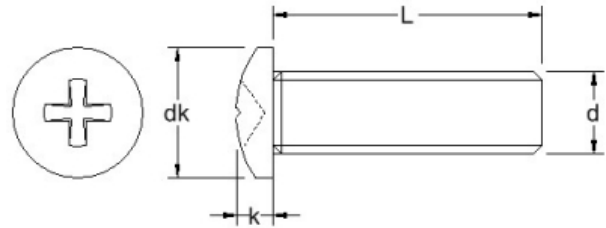
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|------|-----|------|------|-----|-----|-----|------|-----|--|--|--|--|--|--|--|
| dk | 2.6 | 3.0 | 3.8 | 4.7 | 5.6 | 7.5 | 9.2 | 11 | 14.5 | 18 | | | | | | | |
| Drive | #0 | #0 | #0 | #1 | #1 | #2 | #2 | #3 | #4 | #4 | | | | | | | |
| k (max) | 0.9 | 0.96 | 1.2 | 1.5 | 1.65 | 2.2 | 2.5 | 3.0 | 4.0 | 5.0 | | | | | | | |
| Pitch | 0.30 | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | |
| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | |
| 150 | | | | | | | | | ● | | | | | | | | |

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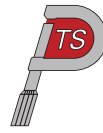
LINSENSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, DIN 7985 H



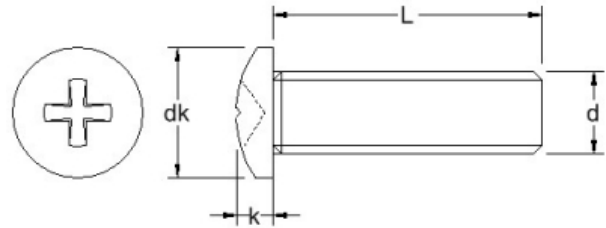
Material Grades: A2: ● A4: ▲

| dk (max) | 2.5 | 3.2 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|
| Drive | #0 | #0 | #0 | #1 | #1 | #2 | #2 | #3 | #4 | | | | | | | | |
| k (max) | 0.8 | 1.42 | 1.72 | 2.12 | 2.52 | 3.25 | 3.95 | 4.75 | 6.15 | | | | | | | | |
| Pitch | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | |
| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | |
| 2 | ● | ●▲ | | | | | | | | | | | | | | | |
| 3 | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 4 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 5 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 6 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 8 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 10 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 12 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 14 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 16 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 18 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 20 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 22 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 25 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 28 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 30 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |

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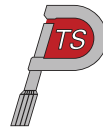
LINSENSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, DIN 7985 H



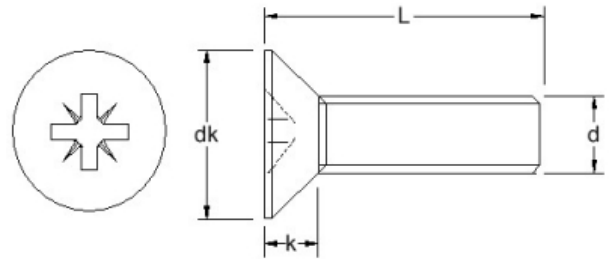
Material Grades: A2: ● A4: ▲

| dk (max) | 2.5 | 3.2 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|
| Drive | #0 | #0 | #0 | #1 | #1 | #2 | #2 | #3 | #4 | | | | | | | | |
| k (max) | 0.8 | 1.42 | 1.72 | 2.12 | 2.52 | 3.25 | 3.95 | 4.75 | 6.15 | | | | | | | | |
| Pitch | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | |
| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | |
| 35 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 40 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 45 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 50 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 55 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 60 | | | | | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 65 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 70 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 80 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 90 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 100 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |

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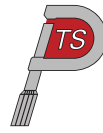
SENKSCHRAUBEN MIT KREUZSCHLITZ - POZIDRIVE, DIN 965 Z



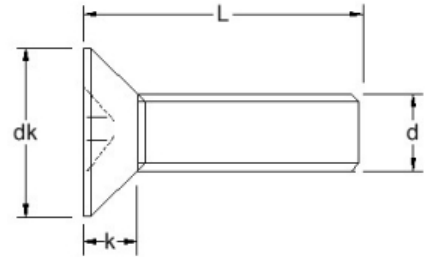
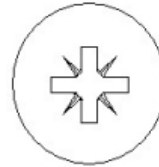
Material Grades: A2: ● A4: ▲

| dk | 3.0 | 3.8 | 4.7 | 5.6 | 6.5 | 7.5 | 9.2 | 11 | 14.5 | 18 | | | | | | | |
|------------|------|-----|------|------|------|-----|-----|-----|------|-----|--|--|--|--|--|--|--|
| Drive | #0 | #0 | #1 | #1 | #2 | #2 | #2 | #3 | #4 | #4 | | | | | | | |
| k (max) | 0.96 | 1.2 | 1.5 | 1.65 | 1.9 | 2.2 | 2.5 | 3.0 | 4.0 | 5.0 | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | | | | | | | |
| 2 | ●▲ | | | | | | | | | | | | | | | | |
| 3 | ●▲ | ●▲ | ● | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | | | ●▲ | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 22 | | | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 25 | | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 28 | | | | | | | ●▲ | | | | | | | | | | |
| 30 | | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |

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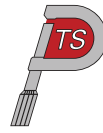
SENKSCHRAUBEN MIT KREUZSCHLITZ - POZIDRIVE, DIN 965 Z



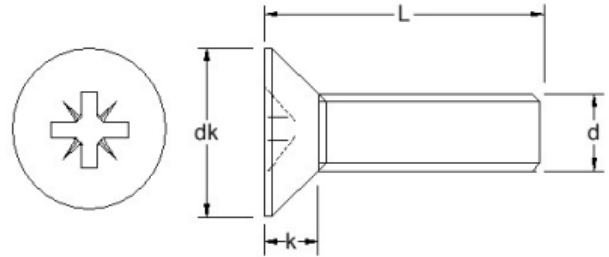
Material Grades: A2: ● A4: ▲

| dk | 3.0 | 3.8 | 4.7 | 5.6 | 6.5 | 7.5 | 9.2 | 11 | 14.5 | 18 | | | | | | | |
|------------|------|-----|------|------|------|-----|-----|-----|------|-----|--|--|--|--|--|--|--|
| Drive | #0 | #0 | #1 | #1 | #2 | #2 | #2 | #3 | #4 | #4 | | | | | | | |
| k (max) | 0.96 | 1.2 | 1.5 | 1.65 | 1.9 | 2.2 | 2.5 | 3.0 | 4.0 | 5.0 | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | | | | | | | |
| 35 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 40 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 45 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 50 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 55 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 60 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 65 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 70 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 75 | | | | | | ●▲ | | ●▲ | | | | | | | | | |
| 80 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 85 | | | | | | ●▲ | | | | | | | | | | | |
| 90 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 95 | | | | | | ●▲ | | | | | | | | | | | |
| 100 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 110 | | | | | | | | ●▲ | | | | | | | | | |
| 120 | | | | | | | | ●▲ | | | | | | | | | |

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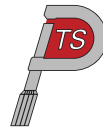
SENKSCHRAUBEN MIT KREUZSCHLITZ - POZIDRIVE, DIN 965 Z



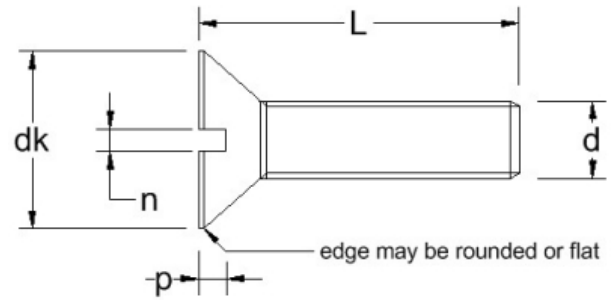
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|-----|------|------|------|-----|-----|-----|------|-----|--|--|--|--|--|--|--|
| dk | 3.0 | 3.8 | 4.7 | 5.6 | 6.5 | 7.5 | 9.2 | 11 | 14.5 | 18 | | | | | | | |
| Drive | #0 | #0 | #1 | #1 | #2 | #2 | #2 | #3 | #4 | #4 | | | | | | | |
| k (max) | 0.96 | 1.2 | 1.5 | 1.65 | 1.9 | 2.2 | 2.5 | 3.0 | 4.0 | 5.0 | | | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | | | | | | | |
| 130 | | | | | | | | ● ▲ | | | | | | | | | |
| 140 | | | | | | | | ● ▲ | | | | | | | | | |

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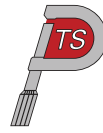
SENKSCRAUBEN MIT SCHLITZ, DIN 963



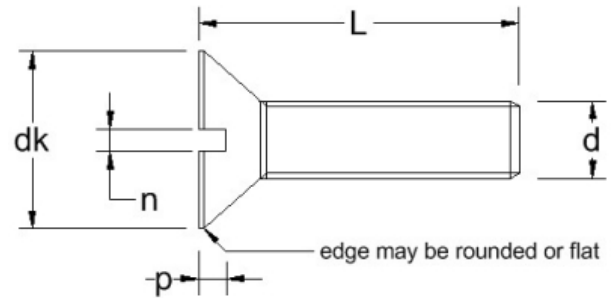
Material Grades: A2: ● A4: ▲

| dk | 1.9 | 2.3 | 2.6 | 3.0 | 3.8 | 4.7 | 5.6 | 6.5 | 7.5 | 9.2 | 11 | 14.5 | 18 | | | | |
|------------|------|------|------|------|------|------|------|------|-----|-----|-----|------|-----|-----|----|--|--|
| k | 0.7 | 0.8 | 0.9 | 1.0 | 1.3 | 1.5 | 1.9 | 1.90 | 2.2 | 2.5 | 3.0 | 4.0 | 5.0 | | | | |
| n | 0.25 | 0.30 | 0.30 | 0.40 | 0.50 | 0.60 | 0.80 | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | 2.5 | | | | |
| p | 0.30 | 0.35 | 0.40 | 0.45 | 0.60 | 0.70 | 0.85 | 1.0 | 1.1 | 1.3 | 1.6 | 2.1 | 2.6 | | | | |
| Pitch | 0.25 | 0.25 | 0.30 | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | |
| length/dim | M1.0 | M1.2 | M1.4 | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | | | |
| 2 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 3 | ● | ● | ● | ●▲ | ●▲ | | | | | | | | | | | | |
| 4 | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5 | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | | | | | |
| 6 | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 8 | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 10 | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 12 | | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 14 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 16 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 18 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 20 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 22 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | ● | ●▲ | ●▲ | ● | | | | |
| 25 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 28 | | | | | ●▲ | | | | | | | | | | | | |

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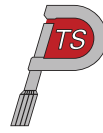
SENKSCRAUBEN MIT SCHLITZ, DIN 963



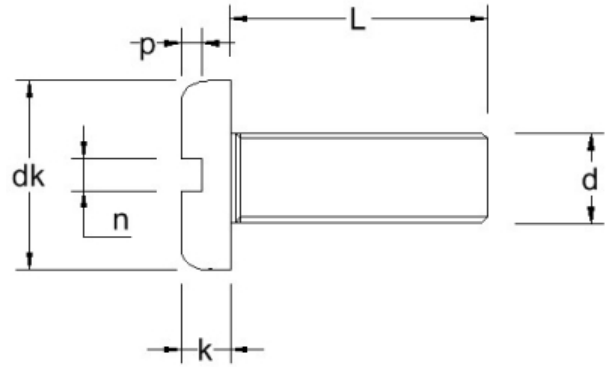
Material Grades: A2: ● A4: ▲

| length/dim | M1.0 | M1.2 | M1.4 | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | | | |
|------------|------|------|------|------|----|------|----|------|----|----|----|----|-----|-----|--|--|--|
| 30 | | | | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 35 | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 40 | | | | | ●▲ | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 45 | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 50 | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 55 | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 60 | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 65 | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 70 | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 75 | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 80 | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 90 | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 100 | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 110 | | | | | | | | | | | ● | ●▲ | ●▲ | ●▲ | | | |
| 120 | | | | | | | | | | | ● | ●▲ | ●▲ | | | | |

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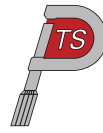
FLACHKOPFSCHRAUBEN MIT SCHLITZ, DIN 85



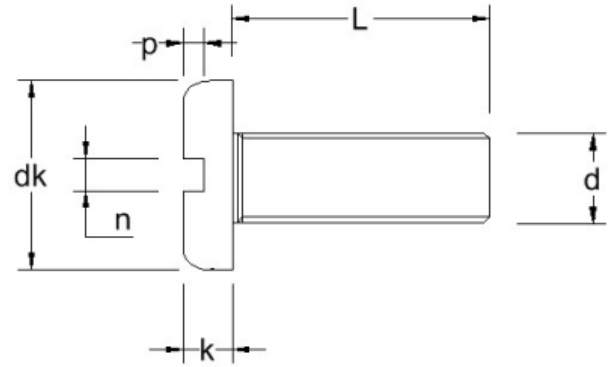
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|-----|-----|-----|------|------|----|--|--|--|--|--|--|--|--|--|
| dk (max) | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 10 | 12 | 16 | 20 | | | | | | | | | | |
| k (max) | 1.3 | 1.5 | 1.8 | 2.0 | 2.4 | 3.0 | 3.6 | 4.8 | 6 | | | | | | | | | | |
| n | 0.50 | 0.60 | 0.80 | 1.0 | 1.2 | 1.2 | 1.6 | 2.0 | 2.81 | | | | | | | | | | |
| p | 0.40 | 0.50 | 0.70 | 1.0 | 1.0 | 1.2 | 1.4 | 1.9 | 2.4 | | | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | |
| 3 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 22 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 35 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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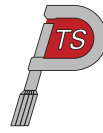
FLACHKOPFSCHRAUBEN MIT SCHLITZ, DIN 85



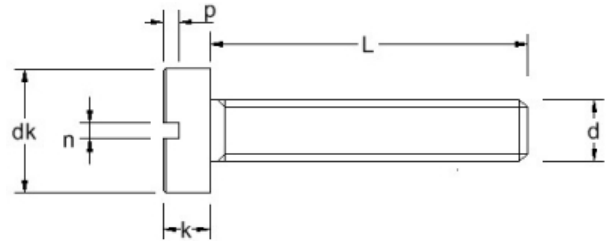
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|-----|-----|-----|------|------|--|--|--|--|--|--|--|--|--|
| dk (max) | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 10 | 12 | 16 | 20 | | | | | | | | | |
| k (max) | 1.3 | 1.5 | 1.8 | 2.0 | 2.4 | 3.0 | 3.6 | 4.8 | 6 | | | | | | | | | |
| n | 0.50 | 0.60 | 0.80 | 1.0 | 1.2 | 1.2 | 1.6 | 2.0 | 2.81 | | | | | | | | | |
| p | 0.40 | 0.50 | 0.70 | 1.0 | 1.0 | 1.2 | 1.4 | 1.9 | 2.4 | | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | |
| 40 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 45 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 50 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 55 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 60 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 65 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 70 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 75 | | | | | | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | |
| 80 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 90 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 100 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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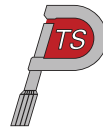
ZYLINDERSCHRAUBEN MIT SCHLITZ, DIN 84



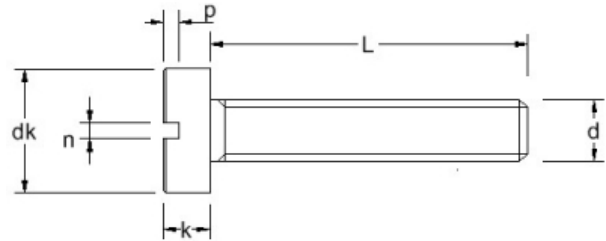
Material Grades: A2: ● A4: ▲

| dk | 2.0 | 2.3 | 2.6 | 3.0 | * | 3.8 | 4.5 | 5.5 | 6.0 | 7.0 | 8.5 | 10 | 13 | 16 | | | |
|------------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|-----|----|--|--|
| k | 0.7 | 0.8 | 0.9 | 1.0 | * | 1.3 | 1.6 | 2.0 | 2.4 | 2.6 | 3.3 | 3.9 | 5 | 6 | | | |
| n | 0.25 | 0.30 | 0.30 | 0.40 | * | 0.50 | 0.60 | 0.80 | 1.0 | 1.2 | 1.2 | 1.6 | 2.0 | 2.5 | | | |
| p | 0.25 | 0.30 | 0.40 | 0.45 | * | 0.60 | 0.70 | 0.85 | 1.0 | 1.1 | 1.3 | 1.6 | 2.0 | 2.4 | | | |
| Pitch | 0.25 | 0.25 | 0.30 | 0.35 | * | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | |
| length/dim | M1.0 | M1.2 | M1.4 | M1.6 | M1.7 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | | | |
| 2 | ● | ● | ● | ● | | ●▲ | | | | | | | | | | | |
| 2.4 | | ● | | | | | | | | | | | | | | | |
| 3 | ● | ● | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 4 | ● | ● | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | | ●▲ | | | | | | | |
| 5 | ● | ● | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 6 | ● | ● | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 8 | ● | ● | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 10 | ● | ● | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 12 | ● | ● | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 14 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 16 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 18 | | | | ● | | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | |
| 20 | | | | ● | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 22 | | | | | | ●▲ | ●▲ | ●▲ | | ●▲ | ● | ●▲ | ●▲ | | | | |
| 25 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |

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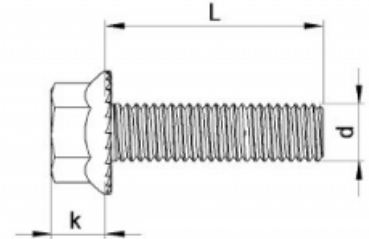
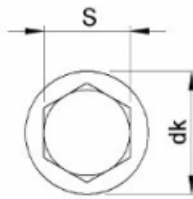
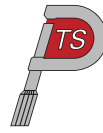
ZYLINDERSCHRAUBEN MIT SCHLITZ, DIN 84



Material Grades: A2: ● A4: ▲

| dk | 2.0 | 2.3 | 2.6 | 3.0 | * | 3.8 | 4.5 | 5.5 | 6.0 | 7.0 | 8.5 | 10 | 13 | 16 | | | |
|------------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|-----|--|--|--|
| k | 0.7 | 0.8 | 0.9 | 1.0 | * | 1.3 | 1.6 | 2.0 | 2.4 | 2.6 | 3.3 | 3.9 | 5 | 6 | | | |
| n | 0.25 | 0.30 | 0.30 | 0.40 | * | 0.50 | 0.60 | 0.80 | 1.0 | 1.2 | 1.2 | 1.6 | 2.0 | 2.5 | | | |
| p | 0.25 | 0.30 | 0.40 | 0.45 | * | 0.60 | 0.70 | 0.85 | 1.0 | 1.1 | 1.3 | 1.6 | 2.0 | 2.4 | | | |
| Pitch | 0.25 | 0.25 | 0.30 | 0.35 | * | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | |
| length/dim | M1.0 | M1.2 | M1.4 | M1.6 | M1.7 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | | | |
| 28 | | | | | | | ● | | | | ●▲ | ●▲ | | | | | |
| 30 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 35 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 40 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 45 | | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 50 | | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 55 | | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 60 | | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 65 | | | | | | | | | | ●▲ | ●▲ | ● | | | | | |
| 70 | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 75 | | | | | | | | | | | | ●▲ | | | | | |
| 80 | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 85 | | | | | | | | | | | | ● | | | | | |
| 90 | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 100 | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |

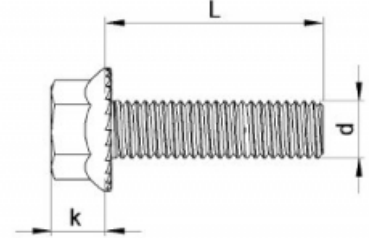
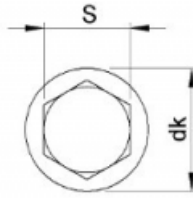
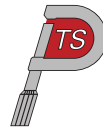
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Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 11.8 | 14.2 | 18 | 22.3 | | | | | | | | | | | | | | | |
| k | 5.4 | 6.6 | 8.1 | 9.2 | | | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | | | | |
| s | 8 | 10 | 13 | 15 | | | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | | | | | | | | | | | | | | | |
| 8/8 | ● | | | | | | | | | | | | | | | | | | |
| 10/10 | ● | ● | | | | | | | | | | | | | | | | | |
| 12/12 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 16/16 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 20/20 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 25/25 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 30/30 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 35/35 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 40/40 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 45/45 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 50/50 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 55/55 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 60/60 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 65/65 | | | ● | ● | | | | | | | | | | | | | | | |
| 70/70 | | | ● | ● | | | | | | | | | | | | | | | |
| 80/80 | | | ● | ● | | | | | | | | | | | | | | | |

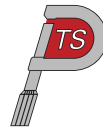
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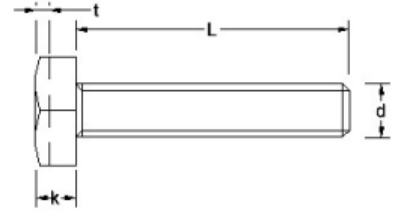
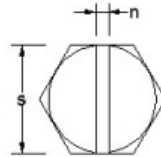
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 11.8 | 14.2 | 18 | 22.3 | | | | | | | | | | | | | | |
| k | 5.4 | 6.6 | 8.1 | 9.2 | | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | | | |
| s | 8 | 10 | 13 | 15 | | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | | | | | | | | | | | | | | |
| 90/90 | | | | ● | | | | | | | | | | | | | | |
| 100/100 | | | | ● | | | | | | | | | | | | | | |

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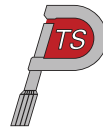
SECHSKANTSCHRAUBEN MIT VOLLGEWINDE UND SCHLITZ, DIN 933SZ



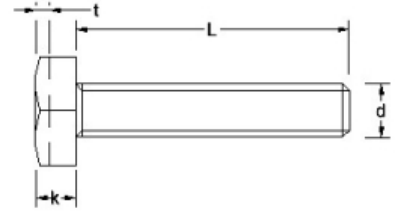
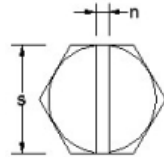
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|-----|---|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 2.1 | 3.0 | 3.5 | 4.0 | 5.3 | 6.4 | | | | | | | | | | | | | |
| n | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | 2.0 | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | | |
| s | 5.5 | 7 | 8 | 10 | 13 | 17 | | | | | | | | | | | | | |
| t | 0.8 | 1.1 | 1.4 | 1.6 | 2.1 | 2.1 | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | | |
| 5 | ● | ● | | | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 14 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 16 | ● | ● | ● | | ● | ● | | | | | | | | | | | | | |
| 18 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 22 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 30 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 35 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 40 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 45 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |

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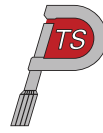
SECHSKANTSCHRAUBEN MIT VOLLGEWINDE UND SCHLITZ, DIN 933SZ



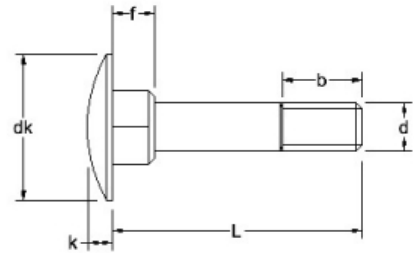
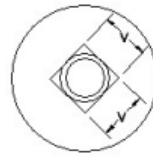
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 2.1 | 3.0 | 3.5 | 4.0 | 5.3 | 6.4 | | | | | | | | | | | | | |
| n | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | 2.0 | | | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | | |
| s | 5.5 | 7 | 8 | 10 | 13 | 17 | | | | | | | | | | | | | |
| t | 0.8 | 1.1 | 1.4 | 1.6 | 2.1 | 2.1 | | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | | |
| 50 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 55 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 60 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 65 | | | | ● | ● | ● | | | | | | | | | | | | | |
| 70 | | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 75 | | | | ● | ● | ● | | | | | | | | | | | | | |
| 80 | | | | ● | ● | ● | | | | | | | | | | | | | |

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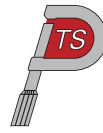
FLACHRUNDSCHRAUBEN MIT VIERKANTANSATZ, DIN 603



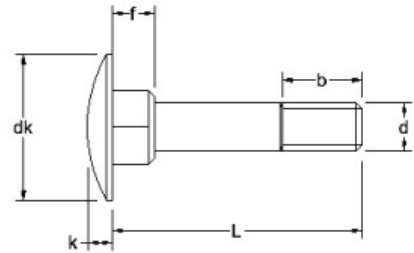
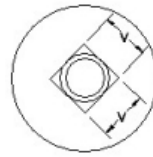
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) | 16 | 18 | 22 | 26 | 36 | 38 | | | | | | | | | | | | | |
| dk | 12.45 | 15.45 | 19.35 | 23.35 | 29.35 | 37.2 | | | | | | | | | | | | | |
| f (max) | 4.1 | 4.6 | 5.6 | 6.6 | 8.75 | 11.1 | | | | | | | | | | | | | |
| k (min) | 2.7 | 3.12 | 4.12 | 4.62 | 6.05 | 8.05 | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | | | | | | | |
| v (max) | 5.48 | 6.48 | 8.58 | 10.58 | 12.7 | 15.3 | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 35 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 45 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 50 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 55 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 60 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 65 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 70 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 75 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 80 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 85 | | | | ●▲ | | | | | | | | | | | | | | | |
| 90 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |

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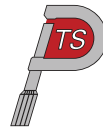
FLACHRUNDSCHRAUBEN MIT VIERKANTANSATZ, DIN 603



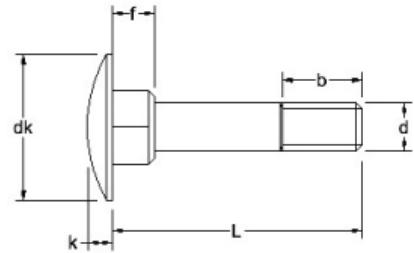
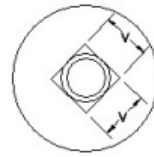
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) | 16 | 18 | 22 | 26 | 36 | 38 | | | | | | | | | | | | | |
| dk | 12.45 | 15.45 | 19.35 | 23.35 | 29.35 | 37.2 | | | | | | | | | | | | | |
| f (max) | 4.1 | 4.6 | 5.6 | 6.6 | 8.75 | 11.1 | | | | | | | | | | | | | |
| k (min) | 2.7 | 3.12 | 4.12 | 4.62 | 6.05 | 8.05 | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | | | | | | | |
| v (max) | 5.48 | 6.48 | 8.58 | 10.58 | 12.7 | 15.3 | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | | | |
| 100 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 110 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 120 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 130 | | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 140 | | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 150 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 160 | | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 170 | | | ● | | | | | | | | | | | | | | | | |
| 180 | | | ● | ● | ● | ● | | | | | | | | | | | | | |
| 190 | | | ● | | | | | | | | | | | | | | | | |
| 200 | | | ● | | ● | ● | | | | | | | | | | | | | |
| 220 | | | | ● | ● | ● | | | | | | | | | | | | | |
| 240 | | | | ● | ● | ● | | | | | | | | | | | | | |
| 260 | | | | ● | ● | ● | | | | | | | | | | | | | |

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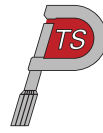
FLACHRUNDSCHRAUBEN MIT VIERKANTANSATZ, DIN 603



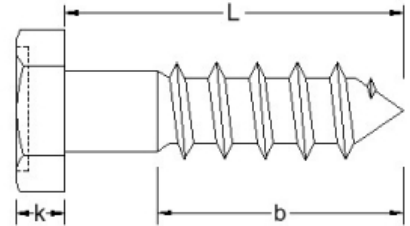
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) | 16 | 18 | 22 | 26 | 36 | 38 | | | | | | | | | | | | | |
| dk | 12.45 | 15.45 | 19.35 | 23.35 | 29.35 | 37.2 | | | | | | | | | | | | | |
| f (max) | 4.1 | 4.6 | 5.6 | 6.6 | 8.75 | 11.1 | | | | | | | | | | | | | |
| k (min) | 2.7 | 3.12 | 4.12 | 4.62 | 6.05 | 8.05 | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | | | | | | | |
| v (max) | 5.48 | 6.48 | 8.58 | 10.58 | 12.7 | 15.3 | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | | | |
| 280 | | | | ● | ● | ● | | | | | | | | | | | | | |
| 300 | | | | ● | ● | ● | | | | | | | | | | | | | |

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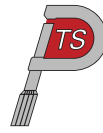
SECHSKANT-HOLZSCHRAUBEN DIN 571



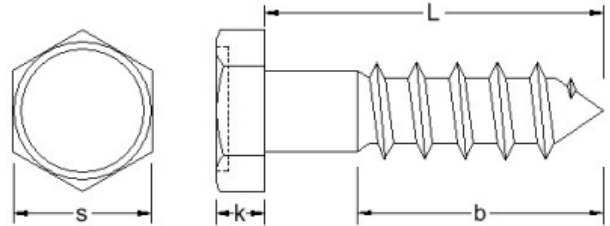
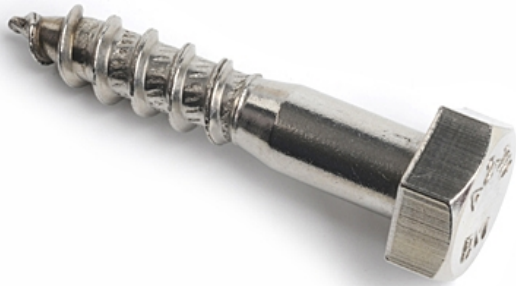
Material Grades: A2: ● A4: ▲

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|
| k | 3.5 | 4 | 5 | 5.5 | 7 | 8 | 10 | | | | | | | | | | | |
| s | 8 | 10 | 12 | 13 | 17 | 19 | 24 | | | | | | | | | | | |
| length/dim | 5 | 6 | 7 | 8 | 10 | 12 | 16 | | | | | | | | | | | |
| 20 | ● | ● | | | | | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | | ●▲ | | | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 35 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 45 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 50 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 55 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 60 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 65 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 70 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 75 | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 80 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 90 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 100 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 110 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 120 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |

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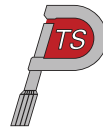
SECHSKANT-HOLZSCHRAUBEN DIN 571



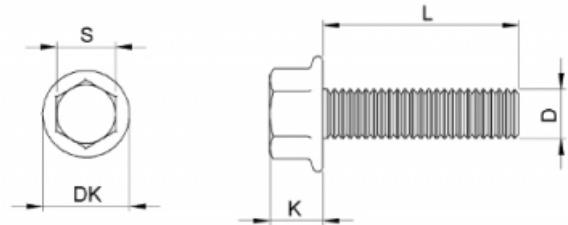
Material Grades: A2: ● A4: ▲

| b | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | 0.6 x L | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|
| k | 3.5 | 4 | 5 | 5.5 | 7 | 8 | 10 | | | | | | | | | | | |
| s | 8 | 10 | 12 | 13 | 17 | 19 | 24 | | | | | | | | | | | |
| length/dim | 5 | 6 | 7 | 8 | 10 | 12 | 16 | | | | | | | | | | | |
| 130 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 140 | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 150 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 160 | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 170 | | | ● | | | | | | | | | | | | | | | |
| 180 | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 190 | | | ● | | | | | | | | | | | | | | | |
| 200 | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 210 | | | ● | | | | | | | | | | | | | | | |
| 220 | | | | | ● | ● | | | | | | | | | | | | |
| 240 | | | | | ● | ● | | | | | | | | | | | | |
| 260 | | | | | ● | ● | | | | | | | | | | | | |
| 280 | | | | | ● | ● | | | | | | | | | | | | |
| 300 | | | | | ● | ● | | | | | | | | | | | | |

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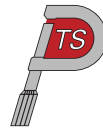
SECHSKANTSCHRAUBEN MIT FLANSCH, DIN 6921



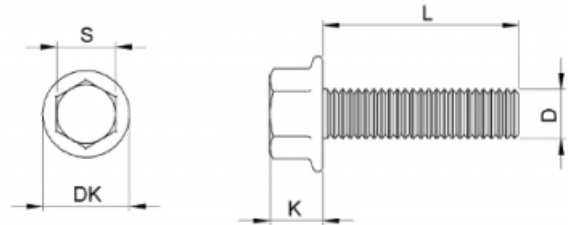
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 11.8 | 14.2 | 18 | 22.3 | | | | | | | | | | | | | | | |
| k | 5.4 | 6.6 | 8.1 | 9.2 | | | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | | | | |
| s | 8 | 10 | 13 | 15 | | | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | | | | | | | | | | | | | | | |
| 8/8 | ● | | | | | | | | | | | | | | | | | | |
| 10/10 | ● | ● | | | | | | | | | | | | | | | | | |
| 12/12 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 16/16 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 20/20 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 25/25 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 30/30 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 35/35 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 40/40 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 45/45 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 50/50 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 55/55 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 60/60 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 65/65 | | | | ● | | | | | | | | | | | | | | | |
| 70/70 | | | ● | ● | | | | | | | | | | | | | | | |
| 80/80 | | | ● | ● | | | | | | | | | | | | | | | |

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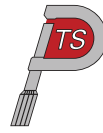
SECHSKANTSCHRAUBEN MIT FLANSCH, DIN 6921



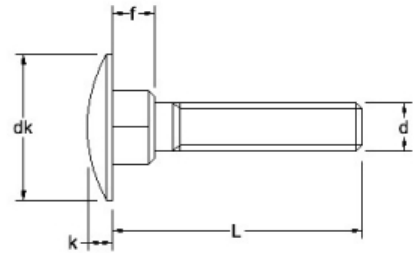
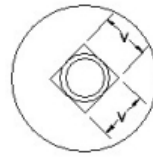
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 11.8 | 14.2 | 18 | 22.3 | | | | | | | | | | | | | | | |
| k | 5.4 | 6.6 | 8.1 | 9.2 | | | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | | | | | | | | | | | | | | | |
| s | 8 | 10 | 13 | 15 | | | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | | | | | | | | | | | | | | | |
| 90/90 | | | | ● | | | | | | | | | | | | | | | |
| 100/100 | | | | ● | | | | | | | | | | | | | | | |

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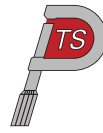
FLACHRUNDSCHRAUBEN, VIERKANTANSATZ MIT VOLLGEWINDE, DIN 603



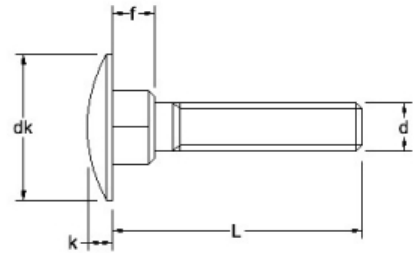
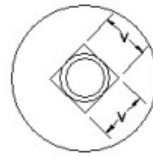
Material Grades: A2: ● A4: ▲

| dk | 12.45 | 15.45 | 19.35 | 23.35 | 29.35 | 37.2 | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| f (max) | 4.1 | 4.6 | 5.6 | 6.6 | 8.75 | 11.1 | | | | | | | | | | | | |
| k (min) | 2.7 | 3.12 | 4.12 | 4.62 | 6.05 | 8.05 | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | | | | | | |
| v (max) | 5.48 | 6.48 | 8.58 | 10.58 | 12.7 | 15.3 | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 18 | ●▲ | | | | | | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 35 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 45 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 50 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 55 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 60 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 65 | ●▲ | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 70 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 75 | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |

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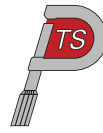
FLACHRUNDSCHRAUBEN, VIERKANTANSATZ MIT VOLLGEWINDE, DIN 603



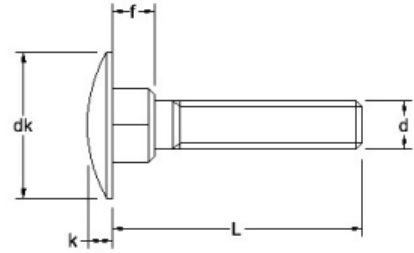
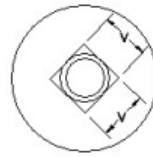
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 12.45 | 15.45 | 19.35 | 23.35 | 29.35 | 37.2 | | | | | | | | | | | | | |
| f (max) | 4.1 | 4.6 | 5.6 | 6.6 | 8.75 | 11.1 | | | | | | | | | | | | | |
| k (min) | 2.7 | 3.12 | 4.12 | 4.62 | 6.05 | 8.05 | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | | | | | | | |
| v (max) | 5.48 | 6.48 | 8.58 | 10.58 | 12.7 | 15.3 | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | | | |
| 80 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 85 | | | | ●▲ | | | | | | | | | | | | | | | |
| 90 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 100 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 110 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 120 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 130 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 140 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 150 | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 160 | | | | | ● | ● | | | | | | | | | | | | | |
| 180 | | | | ● | ● | ● | | | | | | | | | | | | | |
| 200 | | | | ● | ● | ● | | | | | | | | | | | | | |
| 220 | | | | | ● | | | | | | | | | | | | | | |
| 240 | | | | | ● | | | | | | | | | | | | | | |
| 260 | | | | | ● | | | | | | | | | | | | | | |

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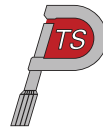
FLACHRUNDSCHRAUBEN, VIERKANTANSATZ MIT VOLLGEWINDE, DIN 603



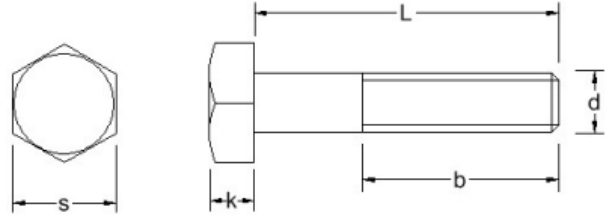
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 12.45 | 15.45 | 19.35 | 23.35 | 29.35 | 37.2 | | | | | | | | | | | | | |
| f (max) | 4.1 | 4.6 | 5.6 | 6.6 | 8.75 | 11.1 | | | | | | | | | | | | | |
| k (min) | 2.7 | 3.12 | 4.12 | 4.62 | 6.05 | 8.05 | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | | | | | | | |
| v (max) | 5.48 | 6.48 | 8.58 | 10.58 | 12.7 | 15.3 | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | | | |
| 280 | | | | | ● | | | | | | | | | | | | | | |
| 300 | | | | | ● | | | | | | | | | | | | | | |

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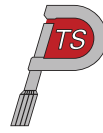
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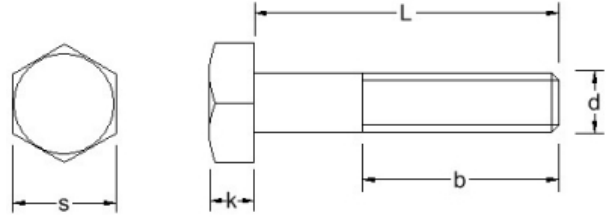
Material Grades: A2: ● A4: ▲ A4-80: ▼

| | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|--|--|
| b (max) | 16 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 60 | 66 | 72 | 78 | | |
| b (max) (L > 125mm) | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 56 | 66 | 72 | 78 | 90 | | |
| k (min) | 3.35 | 3.85 | 5.15 | 6.22 | 7.32 | 8.62 | 9.82 | 11.28 | 12.28 | 13.78 | 14.78 | 16.65 | 18.28 | 20.58 | 22.1 | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | | |
| s | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 34 | 36 | 41 | 46 | 50 | 55 | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | | |
| 25 | ●▲▼ | | | | | | | | | | | | | | | | |
| 30 | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | | | | | | | | | |
| 35 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | | | | | | | | | | | | | |
| 40 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | | | | | | | |
| 45 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | | | | | | | |
| 50 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | | | | | |
| 55 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | | | | | |
| 60 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | | | | | | | | |
| 65 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | | | | | | | | |
| 70 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ● | ●▲▼ | | | | | | |
| 75 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ● | ●▲▼ | | | | | | |
| 80 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | | | | |
| 85 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | | | | |
| 90 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | | | |
| 95 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | | | |

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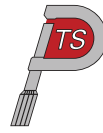
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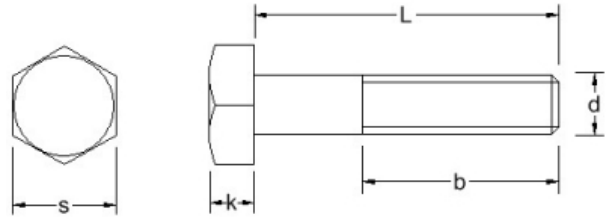
Material Grades: A2: ● A4: ▲ A4-80: ▼

| | 16 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 60 | 66 | 72 | 78 | | |
|---------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|--|--|
| b (max) | 16 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 60 | 66 | 72 | 78 | | |
| b (max) (L > 125mm) | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 56 | 66 | 72 | 78 | 90 | | |
| k (min) | 3.35 | 3.85 | 5.15 | 6.22 | 7.32 | 8.62 | 9.82 | 11.28 | 12.28 | 13.78 | 14.78 | 16.65 | 18.28 | 20.58 | 22.1 | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | | |
| s | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 34 | 36 | 41 | 46 | 50 | 55 | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | | |
| 100 | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 110 | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 120 | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 130 | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 140 | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 150 | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 160 | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ● | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 170 | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ● | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 180 | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ● | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 190 | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ● | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 200 | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ● | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 210 | | | ●▲ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 220 | | | ●▲ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 230 | | | ●▲ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 240 | | | ●▲ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |

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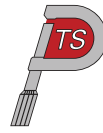
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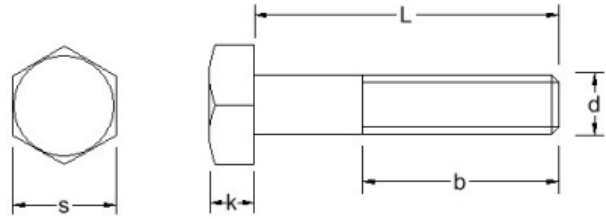
Material Grades: A2: ● A4: ▲ A4-80: ▼

| b (max) | 16 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 60 | 66 | 72 | 78 | | |
|---------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|--|--|
| b (max) (L > 125mm) | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 56 | 66 | 72 | 78 | 90 | | |
| k (min) | 3.35 | 3.85 | 5.15 | 6.22 | 7.32 | 8.62 | 9.82 | 11.28 | 12.28 | 13.78 | 14.78 | 16.65 | 18.28 | 20.58 | 22.1 | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | | |
| s | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 34 | 36 | 41 | 46 | 50 | 55 | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | | |
| 250 | | | ●▲ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 260 | | | ●▲ | ●▲ | ●▲ | | ●▲ | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 270 | | | ●▲ | ●▲ | ●▲ | | ●▲ | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 280 | | | ●▲ | ●▲ | ●▲ | | ●▲ | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 290 | | | ●▲ | ●▲ | ●▲ | | ●▲ | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 300 | | | ●▲ | ●▲ | ●▲ | | ●▲ | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 320 | | | | ●▲ | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |
| 340 | | | | ●▲ | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |
| 360 | | | | ●▲ | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |
| 380 | | | | ●▲ | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |
| 400 | | | | ●▲ | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |
| 420 | | | | ● | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |
| 440 | | | | ● | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |
| 460 | | | | ● | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |
| 480 | | | | ● | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |

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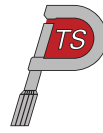
SECHSKANTSCHRAUBEN MIT SCHAFT, DIN 931



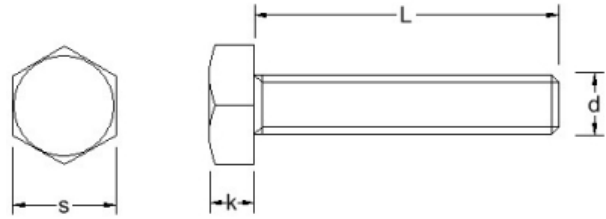
Material Grades: A2: ● A4: ▲

| b (max) | 16 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 60 | 66 | 72 | 78 | | |
|---------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|--|--|
| b (max) (L > 125mm) | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 56 | 66 | 72 | 78 | 90 | | |
| k (min) | 3.35 | 3.85 | 5.15 | 6.22 | 7.32 | 8.62 | 9.82 | 11.28 | 12.28 | 13.78 | 14.78 | 16.65 | 18.28 | 20.58 | 22.1 | | |
| Pitch | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | | |
| s | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 34 | 36 | 41 | 46 | 50 | 55 | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | | |
| 500 | | | | ● | ● | | ●▲ | | ●▲ | | ●▲ | | | | | | |
| 520 | | | | | | | | | ● | | ● | | | | | | |
| 540 | | | | | | | | | ● | | ● | | | | | | |
| 560 | | | | | | | | | ● | | ● | | | | | | |
| 580 | | | | | | | | | ● | | ● | | | | | | |
| 600 | | | | | | | | | ● | | ● | | | | | | |

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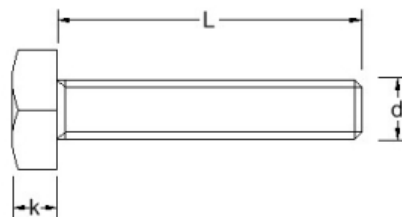
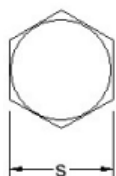
Material Grades: A2: ● A4: ▲ A4-80: ▼

| k (max) | 1.6 | 2 | 2.1 | 2.9 | 3.6 | 4.1 | 5.4 | 6.6 | 7.7 | 9 | 10.1 | 11.7 | 12.7 | 14.2 | 14.78 | 16.65 | 19.1 |
|------------|-----|------|-----|-----|-----|-----|------|-----|------|-----|------|------|------|------|-------|-------|------|
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 |
| s | 4 | 5 | 5.5 | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 |
| 3 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲ | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | ●▲ | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲ | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | | ●▲ | | | | |
| 22 | | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲ | | | | | | | |
| 25 | | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲ | | | | |
| 28 | | | | | | | ● | | | | | | | | | | |
| 30 | | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | |
| 35 | | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | |
| 40 | | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲ | ●▲ | |

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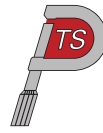
SECHSKANTSCHRAUBEN MIT VOLLGEWINDE, DIN 933



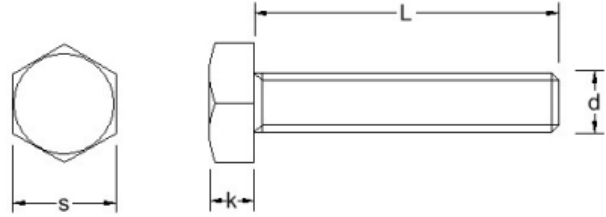
Material Grades:

| length/dim | M33 | M36 | | | | | | | | | | | |
|------------|------|-------|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 21.4 | 22.92 | | | | | | | | | | | |
| Pitch | 3.5 | 4.0 | | | | | | | | | | | |
| s | 50 | 55 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | |

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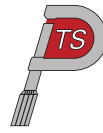
SECHSKANTSCHRAUBEN MIT VOLLGEWINDE, DIN 933



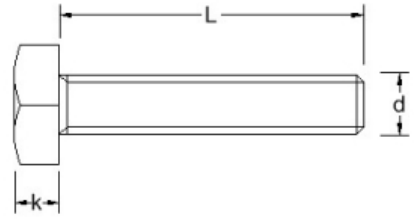
Material Grades: A2: ● A4: ▲ A4-80: ▼

| k (max) | 1.6 | 2 | 2.1 | 2.9 | 3.6 | 4.1 | 5.4 | 6.6 | 7.7 | 9 | 10.1 | 11.7 | 12.7 | 14.2 | 14.78 | 16.65 | 19.1 |
|------------|-----|------|-----|-----|-----|-----|------|-----|------|-----|------|------|------|------|-------|-------|------|
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 |
| s | 4 | 5 | 5.5 | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 |
| 45 | | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | | |
| 50 | | | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲ |
| 55 | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | |
| 60 | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 65 | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 70 | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 75 | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 80 | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 85 | | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 90 | | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 95 | | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 100 | | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 110 | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 120 | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 130 | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 140 | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |
| 150 | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ |

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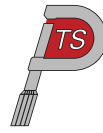
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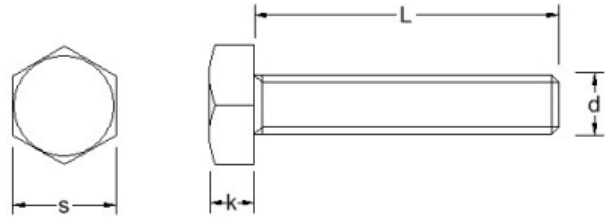
Material Grades: A2: ● A4: ▲

| k (max) | 21.4 | 22.92 | | | | | | | | | | | | | | | | | |
|------------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pitch | 3.5 | 4.0 | | | | | | | | | | | | | | | | | |
| s | 50 | 55 | | | | | | | | | | | | | | | | | |
| length/dim | M33 | M36 | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | | | | | | | |
| 70 | ●▲ | | | | | | | | | | | | | | | | | | |
| 75 | ●▲ | | | | | | | | | | | | | | | | | | |
| 80 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 85 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 90 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 95 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 100 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 110 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 120 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 130 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 140 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 150 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |

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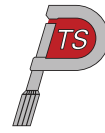
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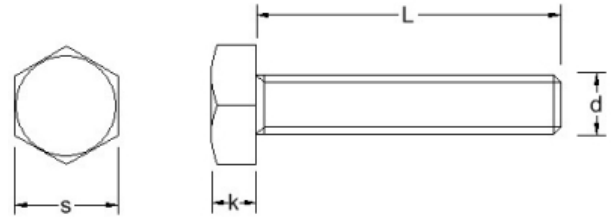
Material Grades: A2: ● A4: ▲ A4-80: ▼

| k (max) | 1.6 | 2 | 2.1 | 2.9 | 3.6 | 4.1 | 5.4 | 6.6 | 7.7 | 9 | 10.1 | 11.7 | 12.7 | 14.2 | 14.78 | 16.65 | 19.1 |
|------------|-----|------|-----|-----|-----|-----|------|-----|------|-----|------|------|------|------|-------|-------|------|
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 |
| s | 4 | 5 | 5.5 | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 |
| 160 | | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ |
| 170 | | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ |
| 180 | | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ |
| 190 | | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ |
| 200 | | | | | | | ●▲▼ | ●▲▼ | ●▲▼ | | ●▲▼ | | ●▲▼ | | ●▲▼ | ●▲ | ●▲ |

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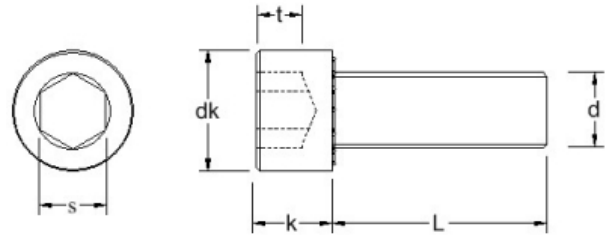
Material Grades: A2: ● A4: ▲

| | M33 | M36 | | | | | | | | | | | | | | | | | | | |
|------------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 21.4 | 22.92 | | | | | | | | | | | | | | | | | | | |
| Pitch | 3.5 | 4.0 | | | | | | | | | | | | | | | | | | | |
| s | 50 | 55 | | | | | | | | | | | | | | | | | | | |
| length/dim | M33 | M36 | | | | | | | | | | | | | | | | | | | |
| 160 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 170 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 180 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 190 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 200 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |

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ZYLINDERSCHRAUBEN ISK SPERRVERZÄHNUNG, VOLLGEWINDE, DIN 912

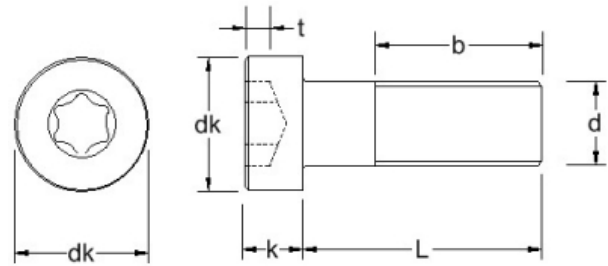


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 13 | | | | | | | | | | | | | | | | | | |
| k (max) | 8 | | | | | | | | | | | | | | | | | | |
| Pitch | 1.25 | | | | | | | | | | | | | | | | | | |
| s | 6 | | | | | | | | | | | | | | | | | | |
| t (min) | 4 | | | | | | | | | | | | | | | | | | |
| length/dim | M8 | | | | | | | | | | | | | | | | | | |
| 12 | ● | | | | | | | | | | | | | | | | | | |
| 14 | ● | | | | | | | | | | | | | | | | | | |
| 16 | ● | | | | | | | | | | | | | | | | | | |
| 20 | ● | | | | | | | | | | | | | | | | | | |
| 22 | ● | | | | | | | | | | | | | | | | | | |
| 25 | ● | | | | | | | | | | | | | | | | | | |
| 28 | ● | | | | | | | | | | | | | | | | | | |
| 30 | ● | | | | | | | | | | | | | | | | | | |
| 35 | ● | | | | | | | | | | | | | | | | | | |
| 40 | ● | | | | | | | | | | | | | | | | | | |
| 45 | ● | | | | | | | | | | | | | | | | | | |
| 50 | ● | | | | | | | | | | | | | | | | | | |
| 55 | ● | | | | | | | | | | | | | | | | | | |
| 60 | ● | | | | | | | | | | | | | | | | | | |

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ZYLINDERSCHRAUBEN MIT INNENVIELZAHN UND NIEDRIGEM KOPF ISO 14580

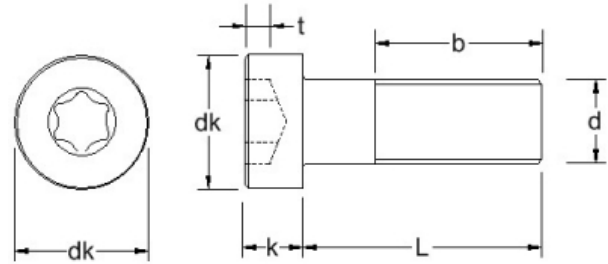


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|-------------|------|------|------|------|------|------|------|---|--|--|--|--|--|--|--|--|--|--|--|
| b (max) = L | 25 | 25 | 25 | 38 | 38 | 38 | 38 | | | | | | | | | | | | |
| dk (max) | 3.8 | 4.5 | 5.5 | 7.0 | 8.5 | 10 | 13 | | | | | | | | | | | | |
| k (max) | 1.55 | 1.85 | 2.4 | 3.1 | 3.65 | 4.4 | 5.8 | | | | | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | | |
| t (max) | 0.84 | 0.91 | 1.27 | 1.66 | 1.91 | 2.29 | 3.05 | | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | | | | | |
| 30 | | | | | ● | ● | ● | | | | | | | | | | | | |
| 45 | | | | | | | ● | | | | | | | | | | | | |
| 50 | | | | | | | ● | | | | | | | | | | | | |
| 55 | | | | | | | ● | | | | | | | | | | | | |
| 60 | | | | | | | ● | | | | | | | | | | | | |
| 25 | | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 3 | ● | ● | | | | | | | | | | | | | | | | | |
| 4 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 5 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 16 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 20 | | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |

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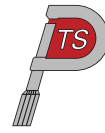
ZYLINDERSCHRAUBEN MIT INNENVIELZAHN UND NIEDRIGEM KOPF ISO 14580



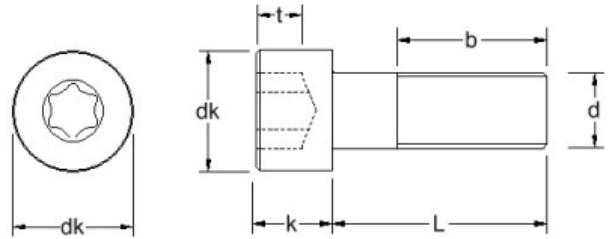
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|-------------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| b (max) = L | 25 | 25 | 25 | 38 | 38 | 38 | 38 | | | | | | | | | | | |
| dk (max) | 3.8 | 4.5 | 5.5 | 7.0 | 8.5 | 10 | 13 | | | | | | | | | | | |
| k (max) | 1.55 | 1.85 | 2.4 | 3.1 | 3.65 | 4.4 | 5.8 | | | | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | |
| t (max) | 0.84 | 0.91 | 1.27 | 1.66 | 1.91 | 2.29 | 3.05 | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | | | | |
| 35 | | | | | | ● | ● | | | | | | | | | | | |
| 40 | | | | | | ● | ● | | | | | | | | | | | |

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ZYLINDERSCHRAUBEN MIT INNENVIELZAHN ISO 14579

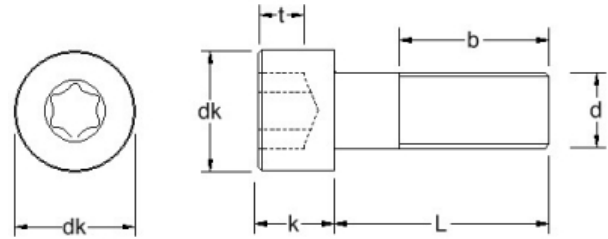


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|-------------|-----|------|-----|-----|-----|-----|------|---|--|--|--|--|--|--|--|--|--|--|--|
| b (max) = L | 16 | 17 | 18 | 20 | 22 | 24 | 28 | | | | | | | | | | | | |
| dk | 3.8 | 4.5 | 5.5 | 7.0 | 8.5 | 10 | 13 | | | | | | | | | | | | |
| k (max) | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | | |
| t (min) | 1.0 | 1.1 | 1.3 | 2.0 | 2.5 | 3 | 4 | | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | | | | | |
| 3 | ● | ● | | | | | | | | | | | | | | | | | |
| 4 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 5 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 22 | | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 25 | | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 30 | | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 14 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 18 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 35 | | | | ● | ● | ● | ● | | | | | | | | | | | | |

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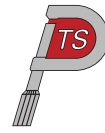
ZYLINDERSCHRAUBEN MIT INNENVIELZAHN ISO 14579



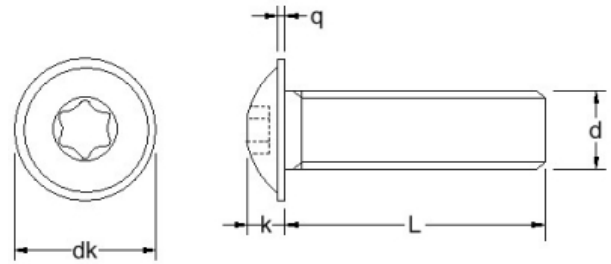
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|-------------|-----|------|-----|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) = L | 16 | 17 | 18 | 20 | 22 | 24 | 28 | | | | | | | | | | | | |
| dk | 3.8 | 4.5 | 5.5 | 7.0 | 8.5 | 10 | 13 | | | | | | | | | | | | |
| k (max) | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | | | | | | | | | | | | |
| t (min) | 1.0 | 1.1 | 1.3 | 2.0 | 2.5 | 3 | 4 | | | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | | | | | | | | | | | | |
| 40 | | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 45 | | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 50 | | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 60 | | | | ● | ● | ● | ● | | | | | | | | | | | | |

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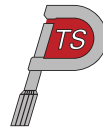
LINSENKOPFSCHRAUBEN MIT INNENVIELZAHN UND FLANSCH, ISO 7380-2



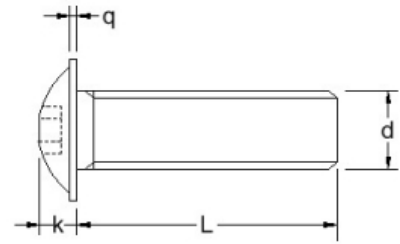
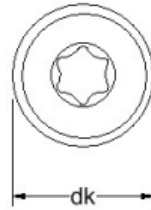
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|-----|------|------|------|------|------|---|---|--|--|--|--|--|--|--|--|--|
| dk (max) | 6.9 | 9.4 | 11.8 | 13.6 | 17.8 | 21.9 | 26 | | | | | | | | | | | |
| k | 1.65 | 2.2 | 2.75 | 3.3 | 4.4 | 5.5 | 6.6 | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | | | | |
| q | 0.7 | 0.8 | 1.0 | 1.2 | 1.5 | 2.0 | 2.4 | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | | |
| 3 | ● | | | | | | | | | | | | | | | | | |
| 4 | ● | ● | | | | | | | | | | | | | | | | |
| 5 | ● | ● | ● | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 14 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 18 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 22 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 30 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 35 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 40 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |

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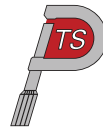
LINSENKOPFSCHRAUBEN MIT INNENVIELZAHN UND FLANSCH, ISO 7380-2



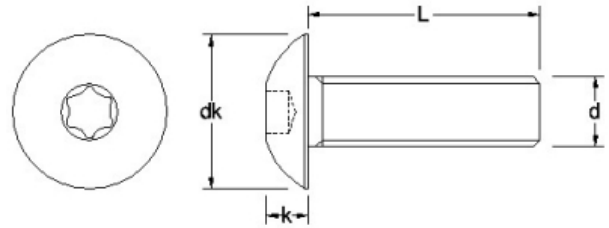
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|-----|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 6.9 | 9.4 | 11.8 | 13.6 | 17.8 | 21.9 | 26 | | | | | | | | | | | |
| k | 1.65 | 2.2 | 2.75 | 3.3 | 4.4 | 5.5 | 6.6 | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | | | | |
| q | 0.7 | 0.8 | 1.0 | 1.2 | 1.5 | 2.0 | 2.4 | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | | |
| 45 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 50 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 55 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 60 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 65 | | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 70 | | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 75 | | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 80 | | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 90 | | | | ● | ● | ● | ● | | | | | | | | | | | |
| 100 | | | | ● | ● | ● | ● | | | | | | | | | | | |
| 110 | | | | ● | ● | ● | ● | | | | | | | | | | | |
| 120 | | | | ● | ● | ● | ● | | | | | | | | | | | |

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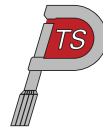
LINSENKOPFSCHRAUBEN MIT INNENVIELZAHN, ISO 7380-1 TX



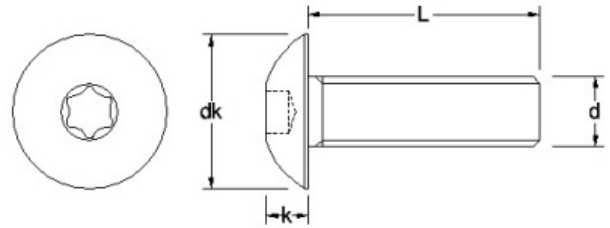
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|-----|------|------|------|------|------|---|---|--|--|--|--|--|--|--|--|--|
| dk(max) | 5.7 | 7.6 | 9.5 | 10.5 | 14 | 17.5 | 21 | | | | | | | | | | | |
| k (max) | 1.65 | 2.2 | 2.75 | 3.3 | 4.4 | 5.5 | 6.6 | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | | |
| 3 | ● | | | | | | | | | | | | | | | | | |
| 4 | ● | ● | | | | | | | | | | | | | | | | |
| 5 | ● | ● | ● | | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 12 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 14 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 16 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 18 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 20 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 22 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 25 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 30 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 35 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 40 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 45 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |

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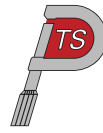
LINSENKOPFSCHRAUBEN MIT INNENVIELZAHN, ISO 7380-1 TX



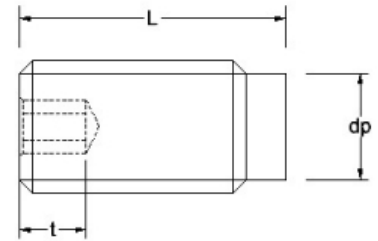
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|-----|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| dk(max) | 5.7 | 7.6 | 9.5 | 10.5 | 14 | 17.5 | 21 | | | | | | | | | | |
| k (max) | 1.65 | 2.2 | 2.75 | 3.3 | 4.4 | 5.5 | 6.6 | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | |
| 50 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 55 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 60 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 65 | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 70 | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 75 | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 80 | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 90 | | | | ● | ● | ● | ● | | | | | | | | | | |
| 100 | | | | ● | ● | ● | ● | | | | | | | | | | |
| 110 | | | | ● | ● | ● | ● | | | | | | | | | | |
| 120 | | | | ● | ● | ● | ● | | | | | | | | | | |

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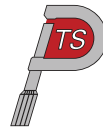
GEWINDESTIFTE MIT INNENSECHSKANT UND ZAPPEN, DIN 915



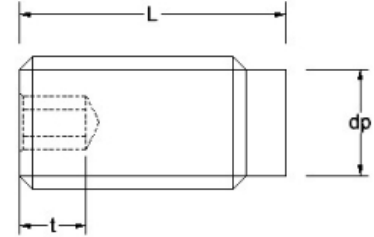
Material Grades: A2: ● A4: ▲

| dp (max) | 1 | 1.5 | 2 | 2.5 | 3.5 | 4 | 5.5 | 7 | 8.5 | 12 | | | | | | | |
|------------|-----|------|-----|-----|-----|-----|------|-----|------|-----|--|--|--|--|--|--|--|
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | |
| s | 0.9 | 1.3 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | | | |
| t (min) | 0.8 | 1.2 | 1.2 | 1.5 | 2 | 2 | 3 | 4 | 4.8 | 6.4 | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | |
| 3 | ● | ● | ●▲ | | | | | | | | | | | | | | |
| 4 | ● | ● | ●▲ | ●▲ | | | | | | | | | | | | | |
| 5 | ● | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 6 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 8 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 10 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 12 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | |
| 14 | | | | | ● | | | | | | | | | | | | |
| 16 | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 20 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 25 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 30 | | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 35 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 40 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 45 | | | | | | | ▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 50 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |

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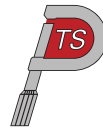
GEWINDESTIFTE MIT INNENSECHSKANT UND ZAPPEN, DIN 915



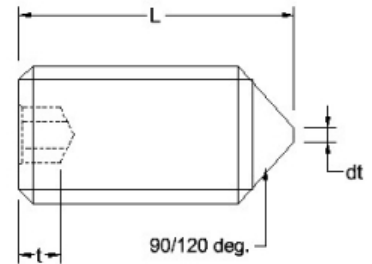
Material Grades: A2: ● A4: ▲

| dp (max) | 1 | 1.5 | 2 | 2.5 | 3.5 | 4 | 5.5 | 7 | 8.5 | 12 | | | | | | | |
|------------|-----|------|-----|-----|-----|-----|------|-----|------|-----|--|--|--|--|--|--|--|
| Pitch | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | |
| s | 0.9 | 1.3 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | | | |
| t (min) | 0.8 | 1.2 | 1.2 | 1.5 | 2 | 2 | 3 | 4 | 4.8 | 6.4 | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | |
| 55 | | | | | | | | | ● | | | | | | | | |
| 60 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 65 | | | | | | | | | | ●▲ | | | | | | | |
| 70 | | | | | | | | | ● | ●▲ | | | | | | | |
| 80 | | | | | | | | | | ●▲ | | | | | | | |
| 90 | | | | | | | | | | ● | | | | | | | |

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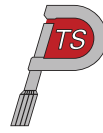
GEWINDESTIFTE MIT INNENSECHSKANT UND SPITZE, DIN 914



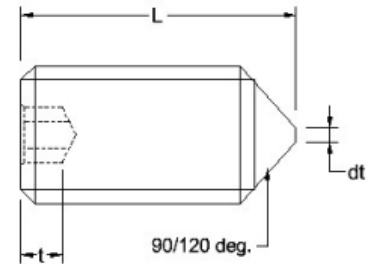
Material Grades: A2: ● A4: ▲

| dt (max) | * | * | * | * | * | * | 1.5 | 2 | 2.5 | 3 | 4 | 5 | | | | | |
|------------|------|-----|------|-----|-----|-----|-----|------|-----|------|-----|-----|--|--|--|--|--|
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | | | | | |
| s | 0.7 | 0.9 | 1.3 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | |
| t (min) | 0.7 | 0.8 | 1.2 | 1.2 | 1.5 | 2 | 2 | 3 | 4 | 4.8 | 6.4 | 8 | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | | | | | |
| 2 | ● | ● | | | | | | | | | | | | | | | |
| 2.5 | | | ● | | | | | | | | | | | | | | |
| 3 | ● | ● | ● | ●▲ | | | | | | | | | | | | | |
| 4 | | ● | ● | ●▲ | ●▲ | | | | | | | | | | | | |
| 5 | | ● | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 6 | | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 8 | | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 10 | | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 12 | | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 14 | | | | | | | | ● | ● | | | | | | | | |
| 16 | | ● | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 18 | | | | | | | | ●▲ | | | | | | | | | |
| 20 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 25 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 30 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 35 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |

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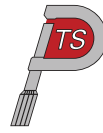
GEWINDESTIFTE MIT INNENSECHSKANT UND SPITZE, DIN 914



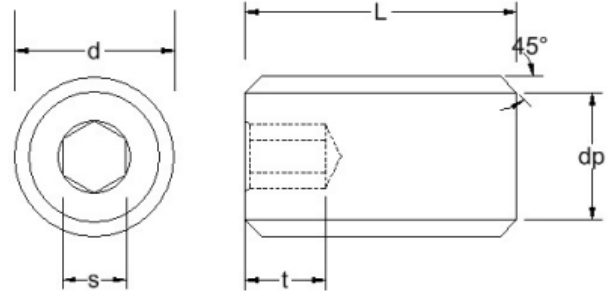
Material Grades: A2: ● A4: ▲

| dt (max) | * | * | * | * | * | * | 1.5 | 2 | 2.5 | 3 | 4 | 5 | | | | | |
|------------|------|-----|------|-----|-----|-----|-----|------|-----|------|-----|-----|--|--|--|--|--|
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | | | | | |
| s | 0.7 | 0.9 | 1.3 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | |
| t (min) | 0.7 | 0.8 | 1.2 | 1.2 | 1.5 | 2 | 2 | 3 | 4 | 4.8 | 6.4 | 8 | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | | | | | |
| 40 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 45 | | | | | | | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 50 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 55 | | | | | | | | | | ●▲ | | | | | | | |
| 60 | | | | | | | ▲ | ●▲ | | ●▲ | ●▲ | ● | | | | | |
| 70 | | | | | | | | | | | ●▲ | ● | | | | | |
| 80 | | | | | | | | | | | ●▲ | ● | | | | | |
| 90 | | | | | | | | | | | ●▲ | ● | | | | | |
| 100 | | | | | | | | | | | ●▲ | ● | | | | | |

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GEWINDESTIFTE MIT INNENSECHSKANT UND KEGELKUPPE, DIN 913



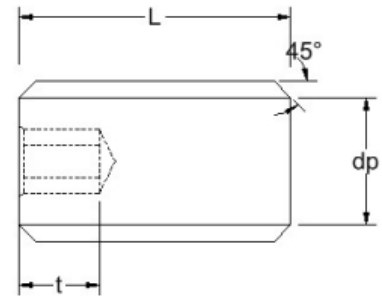
Material Grades: A2: ● A4: ▲

| dp (max) | 0.8 | 1 | 1.5 | 2 | 2.5 | 3.5 | 4 | 5.5 | 7 | 8.5 | 12 | 15 | | | | |
|------------|------|-----|------|-----|-----|-----|-----|------|-----|------|-----|-----|--|--|--|--|
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | | | | |
| s | 0.7 | 0.9 | 1.3 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | | | | |
| t (min) | 0.7 | 0.8 | 1.2 | 1.2 | 1.5 | 2 | 2 | 3 | 4 | 4.8 | 6.4 | 8 | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | | | | |
| 2 | ● | ●▲ | | | | | | | | | | | | | | |
| 2.5 | ● | ● | ● | | | | | | | | | | | | | |
| 3 | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 4 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 5 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 6 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 8 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 10 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 12 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 14 | | ●▲ | | | | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 16 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 20 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | |
| 25 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | |
| 30 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | |
| 35 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | |
| 40 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | |

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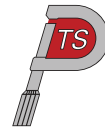
GEWINDESTIFTE MIT INNENSECHSKANT UND KEGELKUPPE, DIN 913



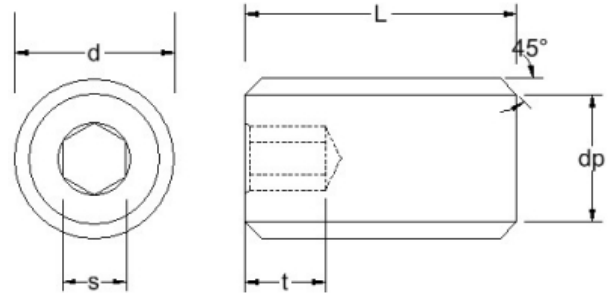
Material Grades: A2: ● A4: ▲

| dp (max) | 0.8 | 1 | 1.5 | 2 | 2.5 | 3.5 | 4 | 5.5 | 7 | 8.5 | 12 | 15 | | | | | |
|------------|------|-----|------|-----|-----|-----|-----|------|-----|------|-----|-----|--|--|--|--|--|
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | | | | | |
| s | 0.7 | 0.9 | 1.3 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | |
| t (min) | 0.7 | 0.8 | 1.2 | 1.2 | 1.5 | 2 | 2 | 3 | 4 | 4.8 | 6.4 | 8 | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | | | | | |
| 45 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 50 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 55 | | | | | | | | ●▲ | | ●▲ | ●▲ | | | | | | |
| 60 | | | | | | ● | | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 70 | | | | | | | | ● | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 80 | | | | | | | | ● | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 90 | | | | | | | | ● | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 100 | | | | | | | | ● | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 110 | | | | | | | | ● | ● | | | | | | | | |
| 120 | | | | | | | | ● | ● | | | | | | | | |
| 130 | | | | | | | | | ● | | | | | | | | |
| 140 | | | | | | | | | ● | | | | | | | | |
| 150 | | | | | | | | | ● | | | | | | | | |
| 160 | | | | | | | | | ● | | | | | | | | |
| 170 | | | | | | | | | ● | | | | | | | | |
| 180 | | | | | | | | | ● | | | | | | | | |

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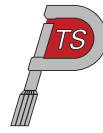
GEWINDESTIFTE MIT INNENSECHSKANT UND KEGELKUPPE, DIN 913



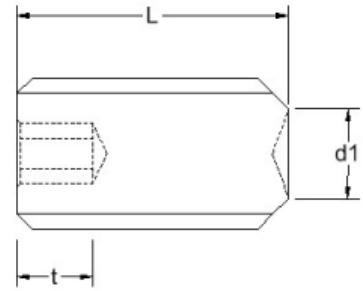
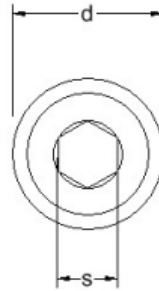
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|-----|------|-----|-----|-----|-----|------|-----|------|-----|-----|--|--|--|--|--|
| dp (max) | 0.8 | 1 | 1.5 | 2 | 2.5 | 3.5 | 4 | 5.5 | 7 | 8.5 | 12 | 15 | | | | | |
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | | | | | |
| s | 0.7 | 0.9 | 1.3 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | |
| t (min) | 0.7 | 0.8 | 1.2 | 1.2 | 1.5 | 2 | 2 | 3 | 4 | 4.8 | 6.4 | 8 | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | | | | | |
| 190 | | | | | | | | | ● | | | | | | | | |

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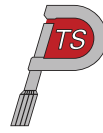
GEWINDESTIFTE MIT INNENSECHSKANT UND RINGSCHNEIDE, DIN 916



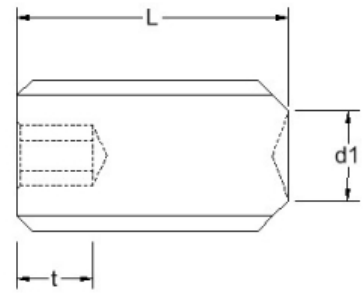
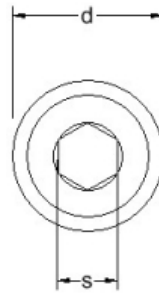
Material Grades: A2: ● A4: ▲

| d1(max) | 0.8 | 1 | 1.2 | 1.4 | 1.4 | 2 | 2.5 | 3 | 5 | 6 | 8 | 10 | | | | | |
|------------|------|-----|------|-----|------|-----|-----|-----|------|-----|------|-----|--|--|--|--|--|
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | |
| s | 0.7 | 0.9 | 1.3 | 1.5 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | |
| t(min) | 0.7 | 0.8 | 1.2 | 1.2 | 1.2 | 1.5 | 2 | 2 | 3 | 4 | 4.8 | 6.4 | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | |
| 2 | ● | ● | | | | | | | | | | | | | | | |
| 2.5 | ● | ● | ● | | | | | | | | | | | | | | |
| 3 | ● | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 4 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | | | | |
| 5 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 6 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | |
| 7 | | | | | | | | ● | | | | | | | | | |
| 8 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | |
| 10 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | |
| 12 | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 14 | | | | ● | | | ▲ | ●▲ | ●▲ | | | | | | | | |
| 16 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 18 | | | | | | | ● | | ● | | | | | | | | |
| 20 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 25 | | | | ●▲ | | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 28 | | | | | | | ● | | | | | | | | | | |

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GEWINDESTIFTE MIT INNENSECHSKANT UND RINGSCHNEIDE, DIN 916



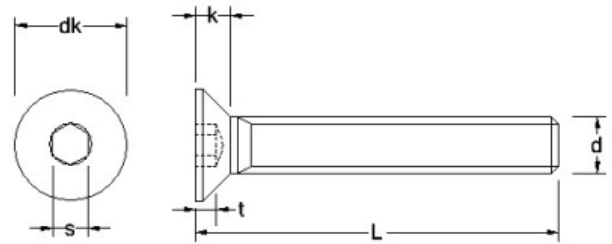
Material Grades: A2: ● A4: ▲

| d1(max) | 0.8 | 1 | 1.2 | 1.4 | 1.4 | 2 | 2.5 | 3 | 5 | 6 | 8 | 10 | | | | | |
|------------|------|-----|------|-----|------|-----|-----|-----|------|-----|------|-----|--|--|--|--|--|
| Pitch | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | |
| s | 0.7 | 0.9 | 1.3 | 1.5 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | |
| t(min) | 0.7 | 0.8 | 1.2 | 1.2 | 1.2 | 1.5 | 2 | 2 | 3 | 4 | 4.8 | 6.4 | | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | |
| 30 | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 35 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 40 | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 45 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 50 | | | | | | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 60 | | | | | | | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 70 | | | | | | | | | ● | ● | ●▲ | ●▲ | | | | | |
| 80 | | | | | | | | | | | ●▲ | ●▲ | | | | | |
| 90 | | | | | | | | | | | | ●▲ | | | | | |
| 100 | | | | | | | | | | | | ●▲ | | | | | |

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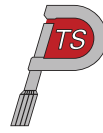
SENKSCHRAUBEN MIT INNENSECHSKANT ISO 10642



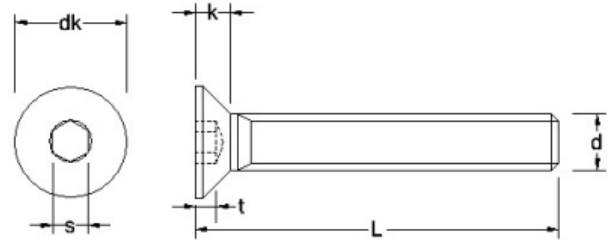
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|-----|------|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|
| dk (max) | 4 | 5 | 6 | 6.5 | 8 | 10 | 12 | 16 | 20 | 24 | 30 | 36 | 39 | | | | |
| k (max) | 1.24 | 1.55 | 1.7 | 2.1 | 2.3 | 2.8 | 3.3 | 4.4 | 5.5 | 6.5 | 7.5 | 8.5 | * | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | | | | |
| s | 1.27 | 1.50 | 2 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | | | | |
| t (max) | 0.65 | | 1.2 | 1.3 | 1.8 | | 2.5 | 3.5 | 4.4 | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | |
| 3 | ●▲ | | | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 14 | | | ●▲ | | ●▲ | ●▲ | | ●▲ | ●▲ | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 18 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 22 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 25 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 30 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |

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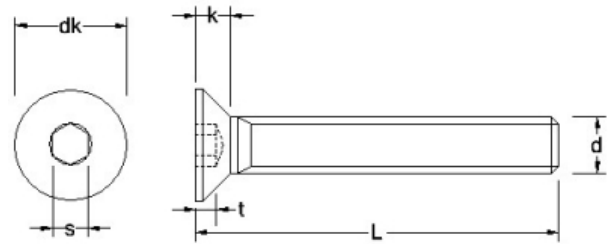
Material Grades: A2: ● A4: ▲

| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | |
|------------|------|------|-----|------|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|
| dk (max) | 4 | 5 | 6 | 6.5 | 8 | 10 | 12 | 16 | 20 | 24 | 30 | 36 | 39 | | | | |
| k (max) | 1.24 | 1.55 | 1.7 | 2.1 | 2.3 | 2.8 | 3.3 | 4.4 | 5.5 | 6.5 | 7.5 | 8.5 | * | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | | | | |
| s | 1.27 | 1.50 | 2 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | | | | |
| t (max) | 0.65 | | 1.2 | 1.3 | 1.8 | | 2.5 | 3.5 | 4.4 | | | | | | | | |
| 35 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 40 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 45 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 50 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 55 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 60 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 65 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 70 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 75 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 80 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 85 | | | | | | | | | ●▲ | ● | | | | | | | |
| 90 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 100 | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 110 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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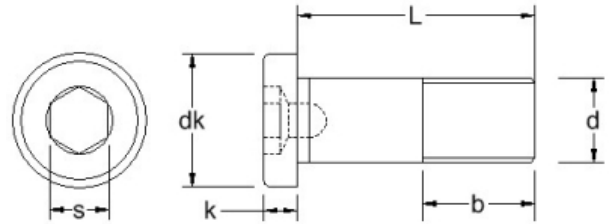
Material Grades: A2: ● A4: ▲

| dk (max) | 4 | 5 | 6 | 6.5 | 8 | 10 | 12 | 16 | 20 | 24 | 30 | 36 | 39 | | | | |
|------------|------|------|-----|------|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|
| k (max) | 1.24 | 1.55 | 1.7 | 2.1 | 2.3 | 2.8 | 3.3 | 4.4 | 5.5 | 6.5 | 7.5 | 8.5 | * | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | | | | |
| s | 1.27 | 1.50 | 2 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | | | | |
| t (max) | 0.65 | | 1.2 | 1.3 | 1.8 | | 2.5 | 3.5 | 4.4 | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | |
| 120 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 130 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 140 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 150 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 160 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 170 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 180 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 190 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 200 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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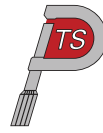
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT UND NIEDRIGEM KOPF, DIN 6912



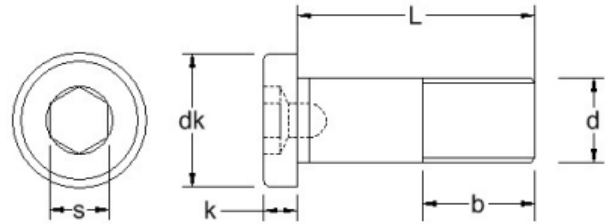
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|----|--|--|--|--|--|--|--|--|--|
| b (max) | 12 | 14 | 16 | 18 | 22 | 26 | 30 | 38 | 46 | 54 | | | | | | | | | | |
| dk (max) | 5.5 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 24 | 30 | 36 | | | | | | | | | | |
| k (max) | 2 | 2.8 | 3.5 | 4 | 5 | 6.5 | 7.5 | 10 | 12 | 14 | | | | | | | | | | |
| Pitch | 0.5 | 0.6 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2 | 2.5 | 3 | | | | | | | | | | |
| s | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 14 | 17 | 19 | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | | | | |
| 4 | ●▲ | | | | | | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 22 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 35 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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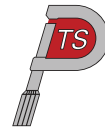
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT UND NIEDRIGEM KOPF, DIN 6912



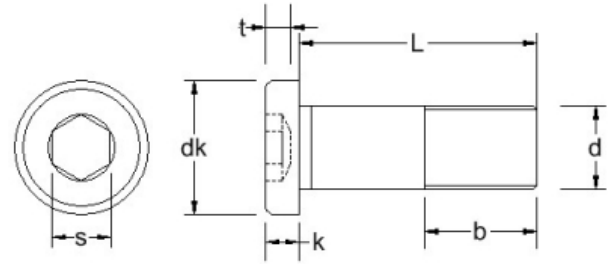
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|
| b (max) | 12 | 14 | 16 | 18 | 22 | 26 | 30 | 38 | 46 | 54 | | | | | | | | | | |
| dk (max) | 5.5 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 24 | 30 | 36 | | | | | | | | | | |
| k (max) | 2 | 2.8 | 3.5 | 4 | 5 | 6.5 | 7.5 | 10 | 12 | 14 | | | | | | | | | | |
| Pitch | 0.5 | 0.6 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2 | 2.5 | 3 | | | | | | | | | | |
| s | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 14 | 17 | 19 | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | | | | |
| 45 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 50 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 55 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 60 | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 65 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 70 | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 75 | | | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 80 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 90 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 100 | | | | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | | |
| 110 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 120 | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 130 | | | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 140 | | | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 150 | | | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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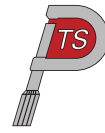
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT UND NIEDRIGEM KOPF, DIN 7984



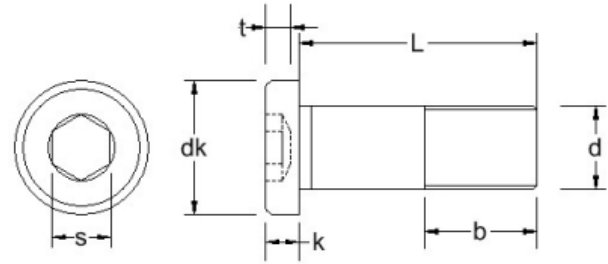
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|--|--|
| b (max) | 12 | 14 | 16 | 18 | 22 | 26 | 30 | 38 | 46 | 54 | | | | | | |
| dk (max) | 5.5 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 24 | 30 | 36 | | | | | | |
| k (max) | 2 | 2.8 | 3.5 | 4 | 5 | 6 | 7 | 9 | 11 | 13 | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | | | | | | |
| s | 2 | 2.5 | 3 | 4 | 5 | 7 | 8 | 12 | 14 | 17 | | | | | | |
| t | 1.5 | 2.3 | 2.7 | 3.0 | 3.8 | 4.5 | 5.0 | 5.5 | 7.5 | 8.0 | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | |
| 3 | ●▲ | | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ▲ | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 14 | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 18 | ●▲ | | ●▲ | ●▲ | ●▲ | | ●▲ | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 22 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |

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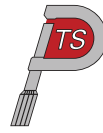
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT UND NIEDRIGEM KOPF, DIN 7984



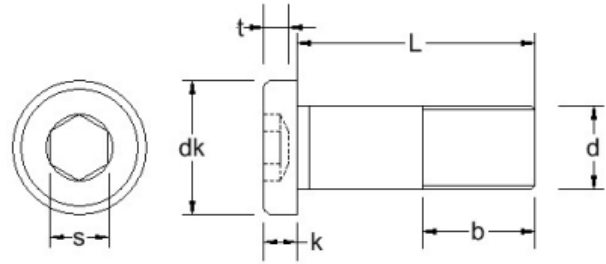
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|--|--|
| b (max) | 12 | 14 | 16 | 18 | 22 | 26 | 30 | 38 | 46 | 54 | | | | | | |
| dk (max) | 5.5 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 24 | 30 | 36 | | | | | | |
| k (max) | 2 | 2.8 | 3.5 | 4 | 5 | 6 | 7 | 9 | 11 | 13 | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | | | | | | |
| s | 2 | 2.5 | 3 | 4 | 5 | 7 | 8 | 12 | 14 | 17 | | | | | | |
| t | 1.5 | 2.3 | 2.7 | 3.0 | 3.8 | 4.5 | 5.0 | 5.5 | 7.5 | 8.0 | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | |
| 35 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 45 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 50 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 55 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 60 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 65 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 70 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 75 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 80 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 90 | | | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 100 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 110 | | | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | |
| 120 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | | | | |

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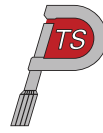
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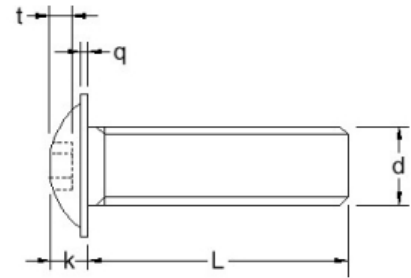
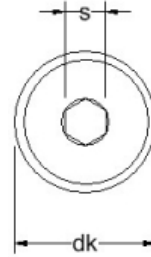
Material Grades: A2: ● A4: ▲

| | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | |
|------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|--|--|
| b (max) | 12 | 14 | 16 | 18 | 22 | 26 | 30 | 38 | 46 | 54 | | | | | | |
| dk (max) | 5.5 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 24 | 30 | 36 | | | | | | |
| k (max) | 2 | 2.8 | 3.5 | 4 | 5 | 6 | 7 | 9 | 11 | 13 | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | | | | | | |
| s | 2 | 2.5 | 3 | 4 | 5 | 7 | 8 | 12 | 14 | 17 | | | | | | |
| t | 1.5 | 2.3 | 2.7 | 3.0 | 3.8 | 4.5 | 5.0 | 5.5 | 7.5 | 8.0 | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | |
| 130 | | | | | | | | ● | ●▲ | ●▲ | | | | | | |
| 140 | | | | | | | | ● | ●▲ | ●▲ | | | | | | |
| 150 | | | | | | | | ● | ●▲ | ●▲ | | | | | | |

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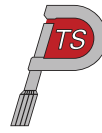
LINSENKOPFSCHRAUBEN MIT INNENSECHSKANT UND FLANSCH ISO 7380-2



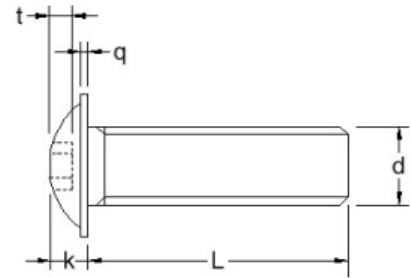
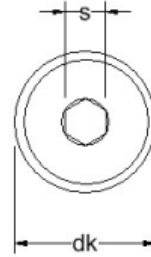
Material Grades: A2: ● A4: ▲

| dk (max) | 6.9 | 9.4 | 11.8 | 13.6 | 17.8 | 21.9 | 26 | | | | | | | | | | | |
|------------|------|-----|------|------|------|------|------|----|----|--|--|--|--|--|--|--|--|--|
| k | 1.65 | 2.2 | 2.75 | 3.3 | 4.4 | 5.5 | 6.6 | | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | | | | |
| q | 0.7 | 0.8 | 0.9 | 1.2 | 1.5 | 2.0 | 2.4 | | | | | | | | | | | |
| s | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | | | |
| t (min) | 1.04 | 1.3 | 1.56 | 2.08 | 2.6 | 3.12 | 4.16 | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | | |
| 3 | ●▲ | | | | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 14 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 18 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 22 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 25 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 30 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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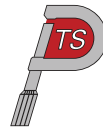
LINSENKOPFSCHRAUBEN MIT INNENSECHSKANT UND FLANSCH ISO 7380-2



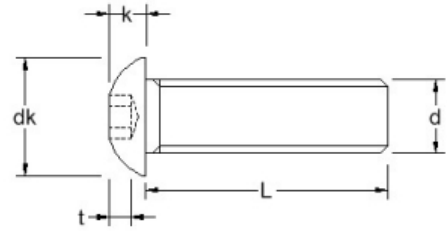
Material Grades: A2: ● A4: ▲

| dk (max) | 6.9 | 9.4 | 11.8 | 13.6 | 17.8 | 21.9 | 26 | | | | | | | | | | |
|------------|------|-----|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| k | 1.65 | 2.2 | 2.75 | 3.3 | 4.4 | 5.5 | 6.6 | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | | | |
| q | 0.7 | 0.8 | 0.9 | 1.2 | 1.5 | 2.0 | 2.4 | | | | | | | | | | |
| s | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | | |
| t (min) | 1.04 | 1.3 | 1.56 | 2.08 | 2.6 | 3.12 | 4.16 | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | |
| 35 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 40 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 45 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 50 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 55 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 60 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 65 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 70 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 75 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 80 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 90 | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 100 | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 110 | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 120 | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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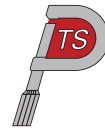
LINSENKOPFSCHRAUBEN MIT INNENSECHSKANT ISO 7380-1



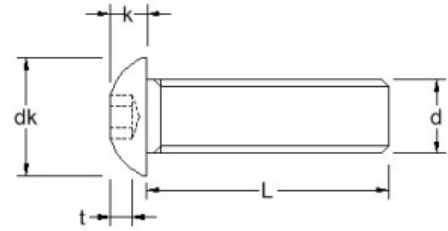
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|------|------|------|-----|------|------|------|------|------|--|--|--|--|--|--|--|--|--|
| dk(max) | 3.5 | 4.5 | 5.7 | 6.6 | 7.6 | 9.5 | 10.5 | 14 | 17.5 | 21 | | | | | | | | | |
| k (max) | 1.3 | 1.5 | 1.65 | 1.9 | 2.2 | 2.75 | 3.3 | 4.4 | 5.5 | 6.6 | | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | | |
| s | 1.3 | 1.5 | 2 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | | | | | |
| t (min) | 0.8 | 1.0 | 1.04 | 1.2 | 1.3 | 1.56 | 2.08 | 2.60 | 3.12 | 4.16 | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | |
| 3 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | | ●▲ | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 9 | | | ● | | | | | | | | | | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 14 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 18 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 20 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 22 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 25 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 30 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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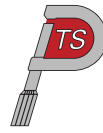
LINSENKOPFSCHRAUBEN MIT INNENSECHSKANT ISO 7380-1



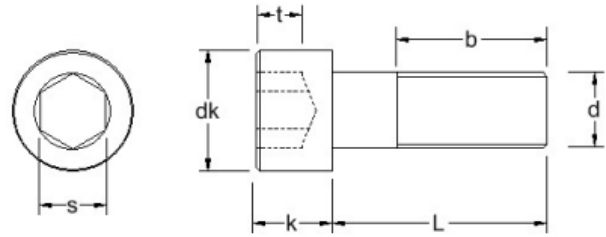
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|------|------|------|-----|------|------|------|------|------|--|--|--|--|--|--|--|--|
| dk(max) | 3.5 | 4.5 | 5.7 | 6.6 | 7.6 | 9.5 | 10.5 | 14 | 17.5 | 21 | | | | | | | | |
| k (max) | 1.3 | 1.5 | 1.65 | 1.9 | 2.2 | 2.75 | 3.3 | 4.4 | 5.5 | 6.6 | | | | | | | | |
| Pitch | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | | | | | | | | |
| s | 1.3 | 1.5 | 2 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | | | | | | | | |
| t (min) | 0.8 | 1.0 | 1.04 | 1.2 | 1.3 | 1.56 | 2.08 | 2.60 | 3.12 | 4.16 | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | |
| 35 | | | ● ▲ | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 40 | | | ● ▲ | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 45 | | | ● ▲ | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 50 | | | ● ▲ | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 55 | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 60 | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 65 | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 70 | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 75 | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 80 | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 90 | | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 100 | | | | | | | | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 110 | | | | | | | | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |
| 120 | | | | | | | | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |

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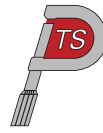
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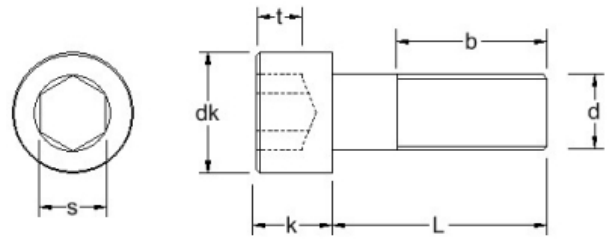
Material Grades: A2: ● A4: ▲ A4-80: ▼

| | 14.8 | 15 | 16 | 17 | 18 | 20 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 |
|------------|------|------|-----|------|-----|------|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
| b (max) | 14.8 | 15 | 16 | 17 | 18 | 20 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 |
| dk | 2.6 | 3.0 | 3.8 | 4.5 | 5.5 | 6.0 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 33 |
| k (max) | 1.4 | 1.6 | 2.0 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
| Pitch | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 |
| s | 1.3 | 1.5 | 1.5 | 2 | 2.5 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 14 | 17 | 17 |
| t (min) | 0.6 | 0.7 | 1.0 | 1.1 | 1.3 | 1.6 | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 |
| 2 | ●▲ | | | | | | | | | | | | | | | | |
| 3 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲▼ | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | | | |
| 8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | | |
| 10 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | | |
| 12 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | |
| 14 | | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | | |
| 16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | | | | | |
| 18 | | ●▲ | ● | ●▲ | ● | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | | | | |
| 20 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ● | ●▲▼ | | |
| 22 | | | ●▲ | ●▲ | ●▲ | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | | |
| 25 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | |

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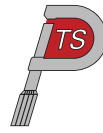
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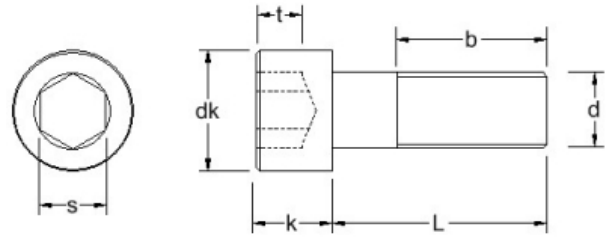
Material Grades:

| length/dim | M24 | M27 | M30 | | | | | | | | | | | | | | | | | |
|------------|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) | 60 | 66 | 72 | | | | | | | | | | | | | | | | | |
| dk | 36 | 40 | 45 | | | | | | | | | | | | | | | | | |
| k (max) | 24 | 27 | 30 | | | | | | | | | | | | | | | | | |
| Pitch | 3.0 | 3.0 | 3.5 | | | | | | | | | | | | | | | | | |
| s | 19 | 19 | 22 | | | | | | | | | | | | | | | | | |
| t (min) | 12 | 13.5 | 15.5 | | | | | | | | | | | | | | | | | |
| length/dim | M24 | M27 | M30 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | |

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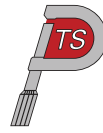
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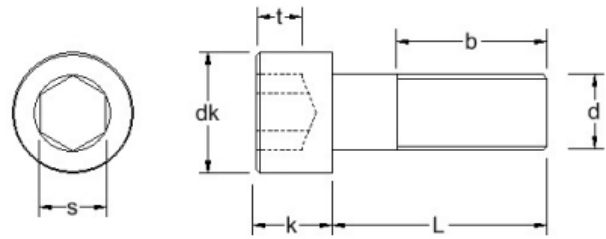
Material Grades: A2: ● A4: ▲ A4-80: ▼

| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | |
|------------|------|------|-----|------|-----|------|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|--|
| b (max) | 14.8 | 15 | 16 | 17 | 18 | 20 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | |
| dk | 2.6 | 3.0 | 3.8 | 4.5 | 5.5 | 6.0 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 33 | |
| k (max) | 1.4 | 1.6 | 2.0 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | |
| Pitch | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | |
| s | 1.3 | 1.5 | 1.5 | 2 | 2.5 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 14 | 17 | 17 | |
| t (min) | 0.6 | 0.7 | 1.0 | 1.1 | 1.3 | 1.6 | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 30/30 | | | | | | | | ●▲ | | | | | | | | | | |
| 30 | | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | |
| 35/35 | | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 35 | | | ●▲ | ●▲ | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | | |
| 40/40 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 40 | | | ●▲ | ●▲ | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | |
| 45/45 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 45 | | | | ●▲ | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | |
| 50/50 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 50 | | | | ●▲ | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | |
| 55/55 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 55 | | | | ●▲ | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | |
| 60 | | | | ●▲ | | | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ | |
| 60/60 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |

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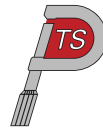
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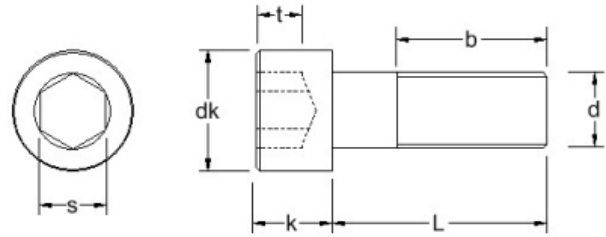
Material Grades: A2: ● A4: ▲ A4-80: ▼

| | M24 | M27 | M30 | | | | | | | | | | | | |
|------------|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) | 60 | 66 | 72 | | | | | | | | | | | | |
| dk | 36 | 40 | 45 | | | | | | | | | | | | |
| k (max) | 24 | 27 | 30 | | | | | | | | | | | | |
| Pitch | 3.0 | 3.0 | 3.5 | | | | | | | | | | | | |
| s | 19 | 19 | 22 | | | | | | | | | | | | |
| t (min) | 12 | 13.5 | 15.5 | | | | | | | | | | | | |
| length/dim | M24 | M27 | M30 | | | | | | | | | | | | |
| 30/30 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 35/35 | | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | | |
| 40/40 | | | | | | | | | | | | | | | |
| 40 | ●▲▼ | | | | | | | | | | | | | | |
| 45/45 | | | | | | | | | | | | | | | |
| 45 | ●▲▼ | | | | | | | | | | | | | | |
| 50/50 | | | | | | | | | | | | | | | |
| 50 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | |
| 55/55 | | | | | | | | | | | | | | | |
| 55 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | |
| 60 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | |
| 60/60 | | | | | | | | | | | | | | | |

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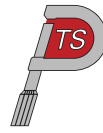
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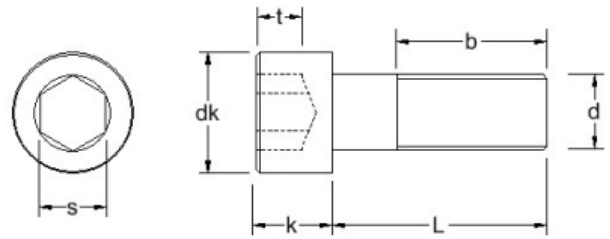
Material Grades: A2: ● A4: ▲ A4-80: ▼

| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | |
|------------|------|------|-----|------|-----|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| b (max) | 14.8 | 15 | 16 | 17 | 18 | 20 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | |
| dk | 2.6 | 3.0 | 3.8 | 4.5 | 5.5 | 6.0 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 33 | |
| k (max) | 1.4 | 1.6 | 2.0 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | |
| Pitch | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | |
| s | 1.3 | 1.5 | 1.5 | 2 | 2.5 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 14 | 17 | 17 | |
| t (min) | 0.6 | 0.7 | 1.0 | 1.1 | 1.3 | 1.6 | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 65 | | | | | ● ▲ | | ● ▲ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ |
| 70 | | | | | ● ▲ | | ● ▲ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ |
| 70/70 | | | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | |
| 75 | | | | | | | ● ▲ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ |
| 80 | | | | | | | ● ▲ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ |
| 80/80 | | | | | | | | | ● ▲ | ● ▲ | ● ▲ | | | | | | | |
| 85 | | | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ |
| 90/90 | | | | | | | | | ● ▲ | ● ▲ | ● ▲ | | | | | | | |
| 90 | | | | | | | ● ▲ | ● ▲ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ |
| 95 | | | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ |
| 100/100 | | | | | | | | | ● ▲ | ● ▲ | ● ▲ | | | | | | | |
| 100 | | | | | | | ● ▲ | ● ▲ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ |
| 110 | | | | | | | | ● ▲ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ |
| 120 | | | | | | | | ● ▲ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ | ● ▲ ▼ |

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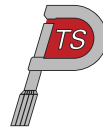
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT DIN 912



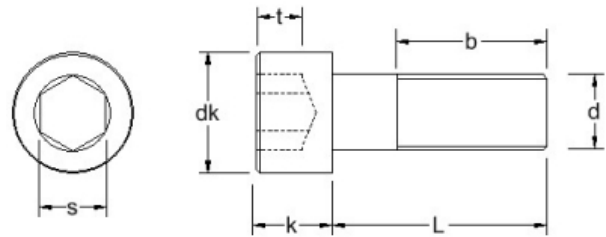
Material Grades: A2: ● A4: ▲ A4-80: ▼

| | M24 | M27 | M30 | | | | | | | | | | | | | | | | |
|------------|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) | 60 | 66 | 72 | | | | | | | | | | | | | | | | |
| dk | 36 | 40 | 45 | | | | | | | | | | | | | | | | |
| k (max) | 24 | 27 | 30 | | | | | | | | | | | | | | | | |
| Pitch | 3.0 | 3.0 | 3.5 | | | | | | | | | | | | | | | | |
| s | 19 | 19 | 22 | | | | | | | | | | | | | | | | |
| t (min) | 12 | 13.5 | 15.5 | | | | | | | | | | | | | | | | |
| length/dim | M24 | M27 | M30 | | | | | | | | | | | | | | | | |
| 65 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 70 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 70/70 | | | | | | | | | | | | | | | | | | | |
| 75 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 80 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 80/80 | | | | | | | | | | | | | | | | | | | |
| 85 | ▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 90/90 | | | | | | | | | | | | | | | | | | | |
| 90 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 95 | ▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 100/100 | | | | | | | | | | | | | | | | | | | |
| 100 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 110 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 120 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |

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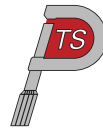
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT DIN 912



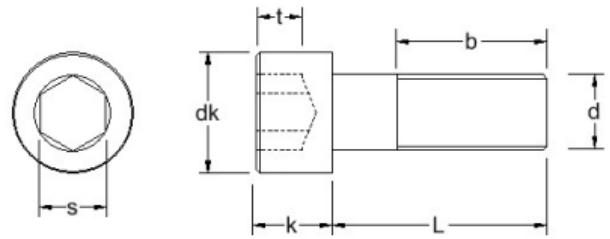
Material Grades: A2: ● A4: ▲ A4-80: ▼

| b (max) | 14.8 | 15 | 16 | 17 | 18 | 20 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 |
|------------|------|------|-----|------|-----|------|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
| dk | 2.6 | 3.0 | 3.8 | 4.5 | 5.5 | 6.0 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 33 |
| k (max) | 1.4 | 1.6 | 2.0 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
| Pitch | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 |
| s | 1.3 | 1.5 | 1.5 | 2 | 2.5 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 14 | 17 | 17 |
| t (min) | 0.6 | 0.7 | 1.0 | 1.1 | 1.3 | 1.6 | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 |
| 130 | | | | | | | | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲▼ | ●▲ |
| 140 | | | | | | | | ●▲ | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲ | ●▲ |
| 150 | | | | | | | | | ●▲▼ | ●▲ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲▼ | ●▲ | ●▲ | ●▲ |
| 160 | | | | | | | | | ● | ●▲ | ●▲▼ | ●▲▼ | ●▲ | ●▲ | | ●▲ | |
| 170 | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | |
| 180 | | | | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | |
| 190 | | | | | | | | | ● | | ▲ | ●▲ | ●▲ | | | ●▲ | |
| 200 | | | | | | | | | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | |
| 210 | | | | | | | | | | ● | ●▲ | ●▲ | | | | | |
| 220 | | | | | | | | | | ● | ●▲ | ●▲ | | | | | |
| 230 | | | | | | | | | | ● | ●▲ | ●▲ | | | | | |
| 240 | | | | | | | | | | ● | ●▲ | ●▲ | | | | | |
| 250 | | | | | | | | | | ●▲ | ●▲ | ●▲ | | | | | |
| 260 | | | | | | | | | | ● | ●▲ | ●▲ | | | | | |

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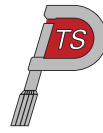
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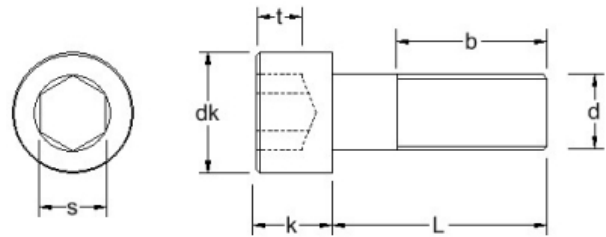
Material Grades: A2: ● A4: ▲ A4-80: ▼

| | 60 | 66 | 72 | | | | | | | | | | | | | | | | | |
|------------|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) | 60 | 66 | 72 | | | | | | | | | | | | | | | | | |
| dk | 36 | 40 | 45 | | | | | | | | | | | | | | | | | |
| k (max) | 24 | 27 | 30 | | | | | | | | | | | | | | | | | |
| Pitch | 3.0 | 3.0 | 3.5 | | | | | | | | | | | | | | | | | |
| s | 19 | 19 | 22 | | | | | | | | | | | | | | | | | |
| t (min) | 12 | 13.5 | 15.5 | | | | | | | | | | | | | | | | | |
| length/dim | M24 | M27 | M30 | | | | | | | | | | | | | | | | | |
| 130 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 140 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 150 | ●▲▼ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 160 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 170 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 180 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 190 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 200 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | |
| 210 | ●▲ | | | | | | | | | | | | | | | | | | | |
| 220 | ●▲ | | | | | | | | | | | | | | | | | | | |
| 230 | ●▲ | | | | | | | | | | | | | | | | | | | |
| 240 | ●▲ | | | | | | | | | | | | | | | | | | | |
| 250 | ●▲ | | | | | | | | | | | | | | | | | | | |
| 260 | ●▲ | | | | | | | | | | | | | | | | | | | |

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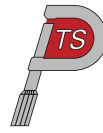
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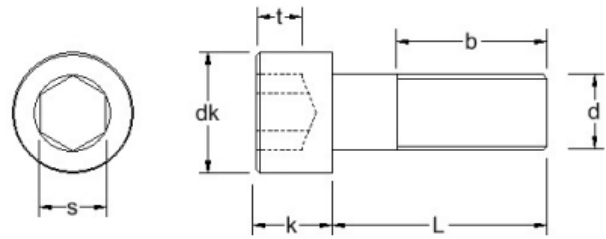
Material Grades: A2: ● A4: ▲

| | 14.8 | 15 | 16 | 17 | 18 | 20 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 |
|------------|------|------|-----|------|-----|------|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
| b (max) | 14.8 | 15 | 16 | 17 | 18 | 20 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 |
| dk | 2.6 | 3.0 | 3.8 | 4.5 | 5.5 | 6.0 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 33 |
| k (max) | 1.4 | 1.6 | 2.0 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
| Pitch | 0.3 | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 |
| s | 1.3 | 1.5 | 1.5 | 2 | 2.5 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 14 | 17 | 17 |
| t (min) | 0.6 | 0.7 | 1.0 | 1.1 | 1.3 | 1.6 | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 |
| 270 | | | | | | | | | | ●▲ | ●▲ | ●▲ | | | | | |
| 280 | | | | | | | | | | ● | ●▲ | ●▲ | | | | | |
| 290 | | | | | | | | | | ●▲ | ●▲ | ●▲ | | | | | |
| 300 | | | | | | | | | | ● | ●▲ | ●▲ | | | | | |

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ZYLINDERSCHRAUBEN MIT INNENSECHSKANT DIN 912

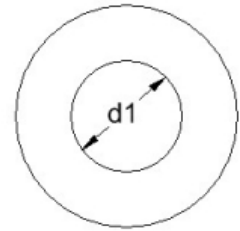
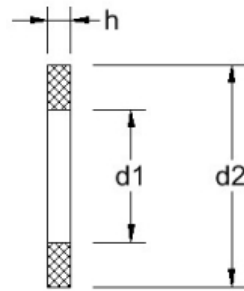


Material Grades: A2: ● A4: ▲

| length/dim | M24 | M27 | M30 | | | | | | | | | | | | | | | | |
|------------|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b (max) | 60 | 66 | 72 | | | | | | | | | | | | | | | | |
| dk | 36 | 40 | 45 | | | | | | | | | | | | | | | | |
| k (max) | 24 | 27 | 30 | | | | | | | | | | | | | | | | |
| Pitch | 3.0 | 3.0 | 3.5 | | | | | | | | | | | | | | | | |
| s | 19 | 19 | 22 | | | | | | | | | | | | | | | | |
| t (min) | 12 | 13.5 | 15.5 | | | | | | | | | | | | | | | | |
| length/dim | M24 | M27 | M30 | | | | | | | | | | | | | | | | |
| 270 | ●▲ | | | | | | | | | | | | | | | | | | |
| 280 | ●▲ | | | | | | | | | | | | | | | | | | |
| 290 | ●▲ | | | | | | | | | | | | | | | | | | |
| 300 | ●▲ | | | | | | | | | | | | | | | | | | |

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AFNOR UNTERLEGSCHIEBEN FORM LL (NF E 25-514)



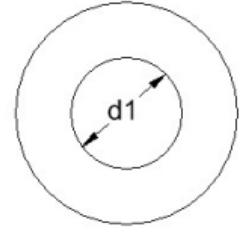
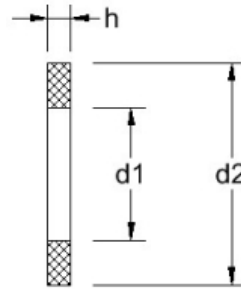
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|------|-----|-----|--|--|--|--|--|--|--|--|--|--|
| d1(min) | 3.2 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 17 | | | | | | | | | | |
| d2(max) | 14 | 16 | 20 | 24 | 30 | 36 | 40 | 50 | | | | | | | | | | |
| h | 0.5 | 0.8 | 1 | 1.2 | 1.5 | 2.0 | 2.5 | 3 | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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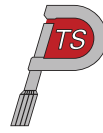
AFNOR UNTERLEGSCHIEBEN FORM M (NF E 25-514)



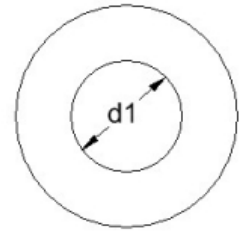
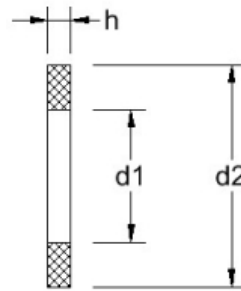
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| d1 (min) | 2.2 | 2.7 | 3.2 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 28 | 31 |
| d2 (max) | 5.5 | 7 | 8 | 10 | 12 | 14 | 18 | 22 | 27 | 30 | 32 | 36 | 40 | 45 | 50 | 55 | 60 |
| h | 0.5 | 0.5 | 0.8 | 0.8 | 1.0 | 1.2 | 1.5 | 2.0 | 2.5 | 2.5 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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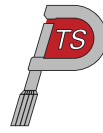
AFNOR UNTERLEGSCHIEBEN FORM M (NF E 25-514)



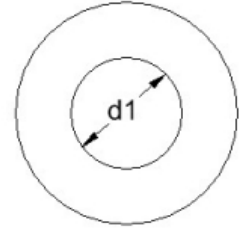
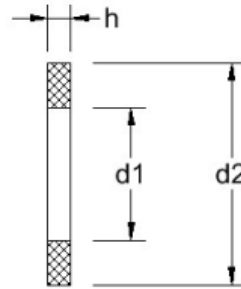
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 (min) | 34 | 37 | | | | | | | | | | | | | | | | | | |
| d2 (max) | 65 | 70 | | | | | | | | | | | | | | | | | | |
| h | 5 | 5 | | | | | | | | | | | | | | | | | | |
| length/dim | M33 | M36 | | | | | | | | | | | | | | | | | | |
| | ● ▲ | ● ▲ | | | | | | | | | | | | | | | | | | |

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AFNOR UNTERLEGSCHIEBEN FORM Z (NF E 25-514)

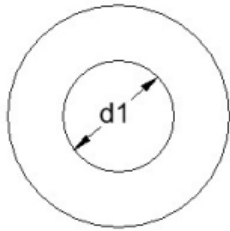
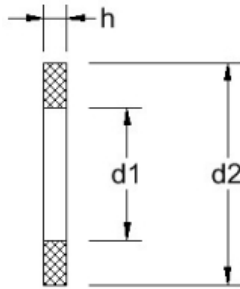


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|--|--|--|--|--|--|--|
| d1(min) | 2.2 | 2.7 | 3.2 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 17 | 21 | | | | | | | |
| d2 (max) | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | 30 | 36 | | | | | | | |
| h | 0.5 | 0.5 | 0.8 | 0.8 | 1 | 1.2 | 1.5 | 2 | 2.5 | 3 | 3 | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |

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AFNOR UNTERLEGSCHIEBEN FORM L (NF E 25-514)

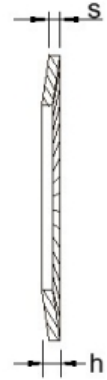
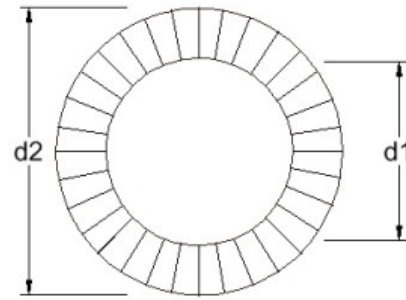


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|
| d1 (min) | 3.2 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | | | | | | | |
| d2 (max) | 12 | 14 | 16 | 18 | 22 | 27 | 32 | 36 | 40 | 45 | 50 | | | | | | | |
| h | 0.8 | 0.8 | 1.0 | 1.2 | 1.5 | 2.0 | 2.5 | 2.5 | 3.0 | 3.0 | 3.0 | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |

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AFNOR KONTAKTSCHIBEN FORM M (NF E 25-511)

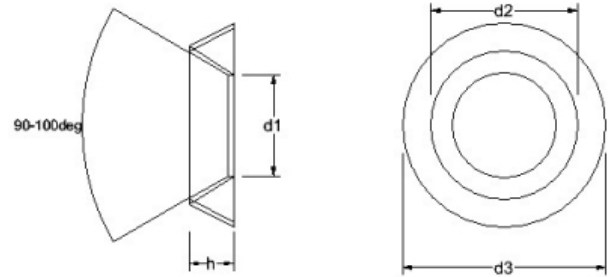


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|-----|-----|-----|------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|
| d1 (max) | 3.35 | 4.4 | 5.4 | 6.4 | 8.58 | 10.56 | 12.83 | 14.83 | 16.83 | 21.02 | | | | | | | | |
| d2 | 8 | 10 | 12 | 14 | 18 | 22 | 27 | 30 | 32 | 40 | | | | | | | | |
| h (max) | 1.0 | 1.4 | 1.8 | 2.1 | 2.35 | 2.75 | 3.1 | 3.7 | 4.1 | 4.9 | | | | | | | | |
| s | 0.6 | 0.9 | 1.1 | 1.3 | 1.4 | 1.6 | 1.8 | 2.4 | 2.8 | 3.2 | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | | | | | | | | |
| | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |

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ROSETTEN, GESTANZT (NF E 27-619)

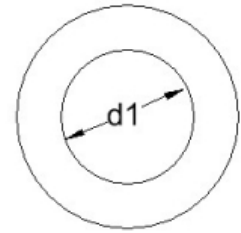
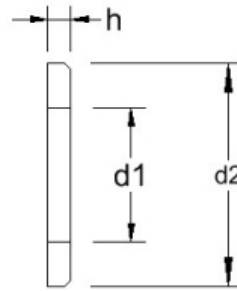


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 | 3.5 | 4.3 | 5.3 | 6.4 | 8.5 | 11 | | | | | | | | | | | | |
| d2 | 6.5 | 8 | 10 | 12 | 16 | 20 | | | | | | | | | | | | |
| d3 | 9 | 11 | 14 | 16 | 22 | 28 | | | | | | | | | | | | |
| h | 2 | 2.5 | 3 | 3.5 | 4.5 | 5.5 | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |

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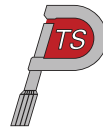
ISO 7090 UNTERLEGSCHIEBEN MIT FASE, NORMAL REIHE, 200HV



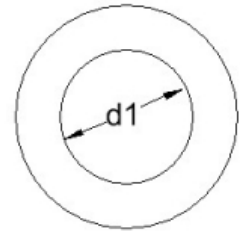
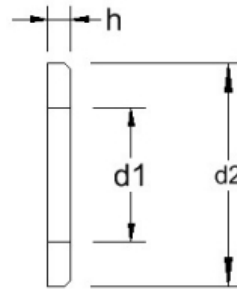
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| d1 min | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 28 | 31 | 34 | 37 | 42 | 45 |
| d2 max | 10 | 12 | 16 | 20 | 24 | 28 | 30 | 34 | 37 | 39 | 44 | 50 | 56 | 60 | 66 | 72 | 78 |
| h | 1 | 1.6 | 1.6 | 2 | 2.5 | 2.5 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 6 | 8 |
| length/dim | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M39 | M42 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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ISO 7090 UNTERLEGSCHIEBEN MIT FASE, NORMAL REIHE, 200HV

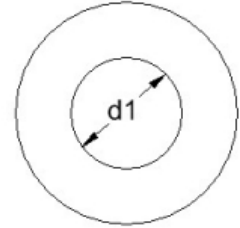
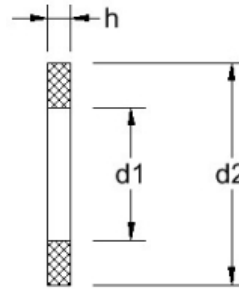


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 min | 48 | 52 | | | | | | | | | | | | | | | | | | |
| d2 max | 85 | 92 | | | | | | | | | | | | | | | | | | |
| h | 8 | 8 | | | | | | | | | | | | | | | | | | |
| length/dim | M45 | M48 | | | | | | | | | | | | | | | | | | |
| | ● ▲ | ● ▲ | | | | | | | | | | | | | | | | | | |

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ISO 7093-1 UNTERLEGSCHLEIBEN, GROBE REIHE, 200HV

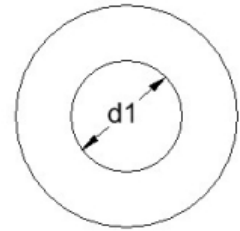
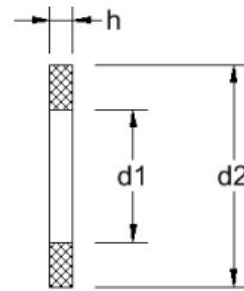


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| d1 min | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 30 | 33 | 36 |
| d2 max | 9 | 11 | 12 | 15 | 18 | 24 | 30 | 37 | 44 | 50 | 56 | 60 | 66 | 72 | 85 | 92 | 105 |
| h | 0.8 | 0.8 | 1 | 1 | 1.6 | 2 | 2.5 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 6 |
| length/dim | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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ISO 7093-1 UNTERLEGSCHLEIBEN, GROBE REIHE, 200HV

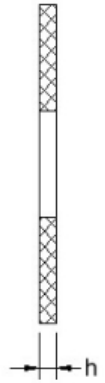
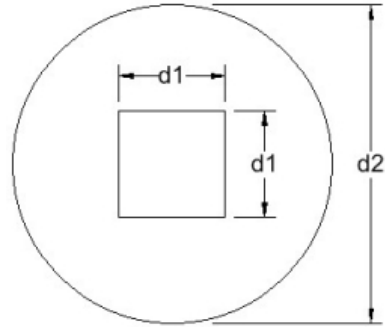


Material Grades: A2:● A4:▲

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 min | 39 | | | | | | | | | | | | | | | | | | |
| d2 max | 110 | | | | | | | | | | | | | | | | | | |
| h | 8 | | | | | | | | | | | | | | | | | | |
| length/dim | M36 | | | | | | | | | | | | | | | | | | |
| | ●▲ | | | | | | | | | | | | | | | | | | |

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SCHEIBEN FÜR HOLZKONSTRUKTIONEN MIT QUADRATLOCH, DIN 440 FORM V



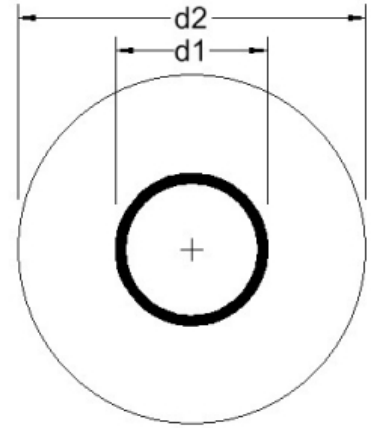
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|
| d1 | 5.5 | 6.6 | 9 | 11 | 14 | 18 | 22 | 26 | | | | | | | | | | |
| d2 | 18 | 22 | 28 | 34 | 44 | 56 | 72 | 85 | | | | | | | | | | |
| h (max) | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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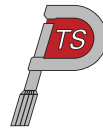
DICHTSCHEIBEN GEWÖLBT MIT GRAUEM EPDM



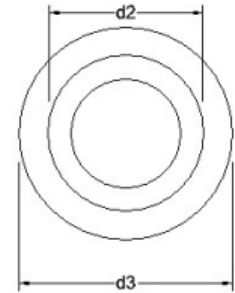
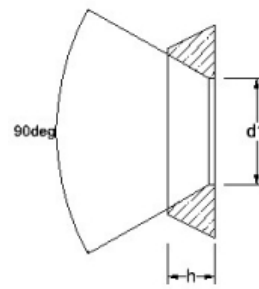
Material Grades: A2: ●

| h1 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|------|------|--|--|--|--|--|--|--|--|--|--|
| h2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | |
| length/dim | 4.8 | 5.2 | 5.3 | 6.2 | 6.7 | 6.8 | 8.4 | 10.5 | 13.0 | | | | | | | | | | |
| 12 | ● | | ● | | | | | | | | | | | | | | | | |
| 14 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 16 | | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 19 | | | ● | | ● | ● | ● | | | | | | | | | | | | |
| 22 | | | | | ● | ● | ● | | | | | | | | | | | | |
| 25 | | | | | ● | ● | ● | ● | | | | | | | | | | | |
| 29 | | | | | ● | | ● | ● | ● | | | | | | | | | | |

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ROSETTEN, AUS VOLLMETAL GEDRECHT (NF E 27-619)

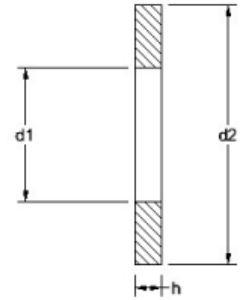
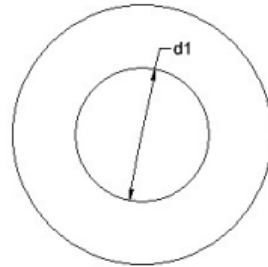


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 | 3.5 | 4.3 | 5.3 | 6.4 | 8.5 | 11 | | | | | | | | | | | | |
| d2 | 6.5 | 8 | 10 | 12 | 16 | 20 | | | | | | | | | | | | |
| d3 | 9 | 11 | 14 | 16 | 22 | 28 | | | | | | | | | | | | |
| h | 2 | 2.5 | 3 | 3.5 | 4.5 | 5.5 | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | | |
| | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | | |

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SCHEIBEN FÜR SCHRAUBEN MIT SCHWEREN SPANNHÜLSEN



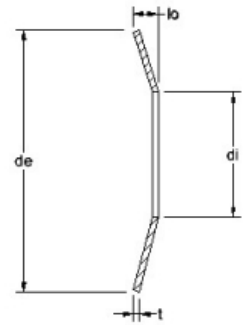
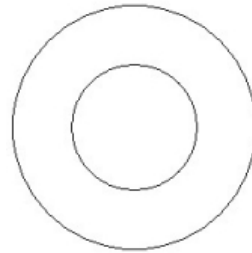
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|------|------|--|--|
| d1 | 3.2 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 28 | 31 | | |
| d2 | 9 | 12 | 15 | 17 | 21 | 25 | 30 | 36 | 40 | 44 | 44 | 50 | 50 | 60 | 68 | | |
| h | 1.0 | 01.6 | 2.0 | 3.0 | 4.0 | 4.0 | 6.0 | 6.0 | 6.0 | 8.0 | 8.0 | 8.0 | 10.0 | 10.0 | 10.0 | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |

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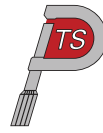
DISC SPRINGS DIN 2093



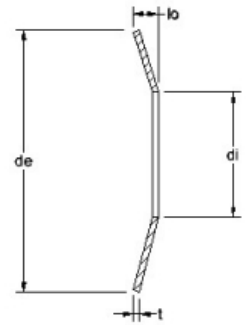
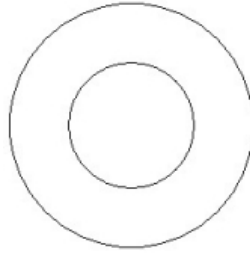
Material Grades: A2: ●

| d2 | 3.2 | 3.2 | 4.2 | 5.2 | 4.2 | 6.2 | 6.2 | 7.2 | 8.2 | 8.2 | 6.2 | 9.2 | 8.2 | 10.2 | 12.2 | 14.2 | 16.3 |
|--------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|------|------|------|
| thickness/d1 | 6 | 8 | 8 | 10 | 12 | 12 | 12.5 | 14 | 15 | 16 | 18 | 18 | 20 | 20 | 25 | 28 | 31.5 |
| 0.2000 | | | ● | | | | | | | | | | | | | | |
| 0.2500 | | | | ● | | | | | | | | | | | | | |
| 0.3000 | ● | | ● | | | | | | | | | | | | | | |
| 0.4000 | | | ● | ● | ● | | | | | ● | ● | | | | | | |
| 0.5000 | | ● | | ● | ● | ● | ● | | | | | | ● | | | | |
| 0.6000 | | | | | | | | | | ● | | | | ● | | | |
| 0.7000 | | | | | | ● | | | | | | ● | | | ● | | |
| 0.8000 | | | | | | | | ● | ● | | | | | ● | | | |
| 0.9000 | | | | | | | | | | ● | | | | ● | ● | | |
| 1.0000 | | | | | | | | | | | | ● | | ● | | ● | |
| 1.1000 | | | | | | | | | | | | | | ● | ● | | |
| 1.2500 | | | | | | | | | | | | | | | | | ● |
| 1.5000 | | | | | | | | | | | | | | | ● | ● | |
| 1.7500 | | | | | | | | | | | | | | | | | ● |
| 2.0000 | | | | | | | | | | | | | | | | | |
| 2.2500 | | | | | | | | | | | | | | | | | |

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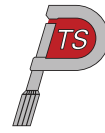
DISC SPRINGS DIN 2093



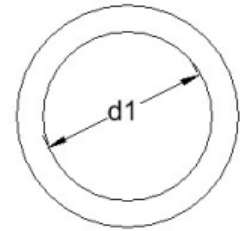
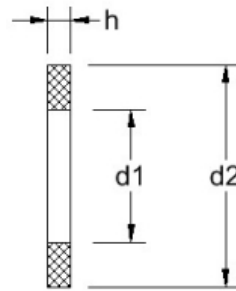
Material Grades: A2: ●

| d2 | 18.3 | 20.4 | | | | | | | | | | | | | | | | | |
|--------------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| thickness/d1 | 35.5 | 40 | | | | | | | | | | | | | | | | | |
| 0.2000 | | | | | | | | | | | | | | | | | | | |
| 0.2500 | | | | | | | | | | | | | | | | | | | |
| 0.3000 | | | | | | | | | | | | | | | | | | | |
| 0.4000 | | | | | | | | | | | | | | | | | | | |
| 0.5000 | | | | | | | | | | | | | | | | | | | |
| 0.6000 | | | | | | | | | | | | | | | | | | | |
| 0.7000 | | | | | | | | | | | | | | | | | | | |
| 0.8000 | | | | | | | | | | | | | | | | | | | |
| 0.9000 | | | | | | | | | | | | | | | | | | | |
| 1.0000 | | | | | | | | | | | | | | | | | | | |
| 1.1000 | | | | | | | | | | | | | | | | | | | |
| 1.2500 | ● | | | | | | | | | | | | | | | | | | |
| 1.5000 | | ● | | | | | | | | | | | | | | | | | |
| 1.7500 | | | | | | | | | | | | | | | | | | | |
| 2.0000 | ● | ● | | | | | | | | | | | | | | | | | |
| 2.2500 | | ● | | | | | | | | | | | | | | | | | |

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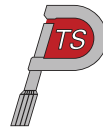
DIN 988 SHIM WASHERS



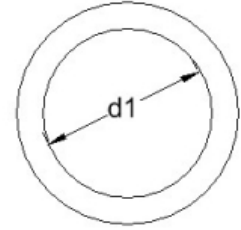
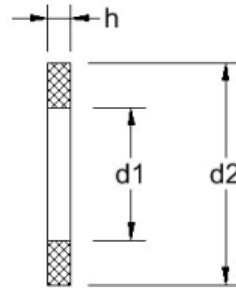
Material Grades: A2: ●

| d2 | 3.0 | 4.0 | 5.0 | 6.0 | 8.0 | 7.0 | 8.0 | 10.0 | 11.0 | 12.0 | 13.0 | 8.0 | 14.0 | 15.0 | 15.0 | 16.0 | 17.0 |
|--------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| thickness/d1 | 6.0 | 8.0 | 10.0 | 12.0 | 12.0 | 13.0 | 14.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 20.0 | 21.0 | 22.0 | 22.0 | 24.0 |
| 0.0500 | | | | | | | | ● | | | | | | | | | |
| 0.1000 | ● | ● | | ● | | ● | ● | ● | ● | ● | | | | | | ● | ● |
| 0.1500 | | | | ● | | | | | | | | | | | | | |
| 0.2000 | ● | ● | ● | ● | | ● | ● | ● | ● | | ● | | ● | | | ● | ● |
| 0.2500 | | | | ● | | | | | | ● | | | | | | | |
| 0.3000 | ● | ● | ● | ● | | ● | ● | | | ● | | | | | ● | | ● |
| 0.4000 | ● | ● | | | | | | | | | | | | | | | |
| 0.5000 | ● | | ● | ● | ● | | ● | ● | | ● | ● | | ● | ● | ● | | ● |
| 0.8000 | | | | | | | | | | | | | | | | | |
| 1.0000 | ● | ● | ● | ● | | ● | ● | ● | ● | ● | ● | | ● | | ● | | ● |
| 1.2000 | | | | ● | | | | ● | | ● | | | | | | | |
| 1.5000 | | | | | | | | | | | | ● | ● | ● | | ● | ● |
| 2.0000 | | | ● | | | | | ● | | | | | | ● | | | |
| 2.5000 | | | | | | | | | | | | | | | | | |
| 3.0000 | | | | | | | | | | | | | | | | | |

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DIN 988 SHIM WASHERS

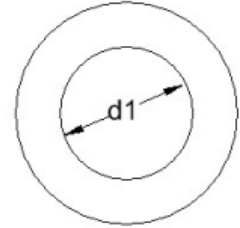
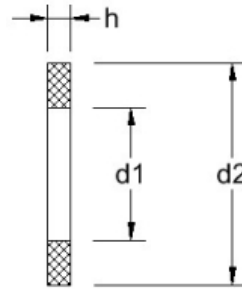


Material Grades: A2: ●

| d2 | 18.0 | 20.0 | 22.0 | 25.0 | 26.0 | 28.0 | 30.0 | 30.0 | 35.0 | 37.0 | 40.0 | 42.0 | 45.0 | 50.0 | 63.0 | 70.0 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| thickness/d1 | 25.0 | 28.0 | 30.0 | 35.0 | 37.0 | 40.0 | 40.0 | 42.0 | 45.0 | 47.0 | 50.0 | 52.0 | 55.0 | 62.0 | 80.0 | 80.0 |
| 0.0500 | | | | | | | | | | | | | | | | |
| 0.1000 | | ● | | | | | ● | ● | | ● | ● | | ● | ● | ● | ● |
| 0.1500 | | | | | | | | | | | | | | | | |
| 0.2000 | ● | | | | ● | | | ● | | ● | | | ● | | | |
| 0.2500 | | | | | | | | | | | | | | | | |
| 0.3000 | ● | | | | | ● | | ● | ● | ● | | | | | | |
| 0.4000 | | | | | | | | | | | | | | | | |
| 0.5000 | ● | ● | | | ● | | ● | ● | | ● | ● | ● | | | | |
| 0.8000 | | | ● | | | | | | | | | | | | | |
| 1.0000 | ● | ● | | ● | | ● | | ● | | ● | ● | | ● | ● | | |
| 1.2000 | | | | | | | | | | | | | | | | |
| 1.5000 | | | | | | | | | ● | | | | | | | |
| 2.0000 | | | | ● | | ● | | | ● | | | ● | | | | |
| 2.5000 | | | | | | | | | | | ● | | | | | |
| 3.0000 | | | | | | | | | | | ● | | ● | | | |

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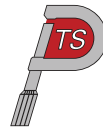
ISO 7089 UNTERLEGSCHLEIBEN 200HV



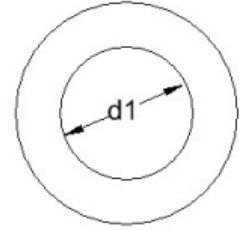
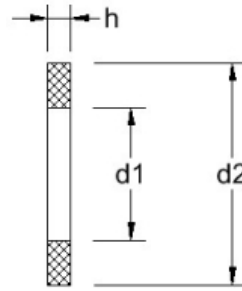
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| d1 | 1.7 | 2.2 | 2.7 | 3.2 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 21 | 25 | 28 | 31 | 34 |
| d2 | 4 | 5 | 6 | 7 | 9 | 10 | 12 | 16 | 20 | 24 | 28 | 30 | 37 | 44 | 50 | 56 | 60 |
| h | 0.3 | 0.3 | 0.5 | 0.5 | 0.8 | 1 | 1.6 | 1.6 | 2 | 2.5 | 2.5 | 3 | 3 | 4 | 4 | 4 | 5 |
| length/dim | M1.6 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 | M27 | M30 | M33 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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ISO 7089 UNTERLEGSCHLEIBEN 200HV

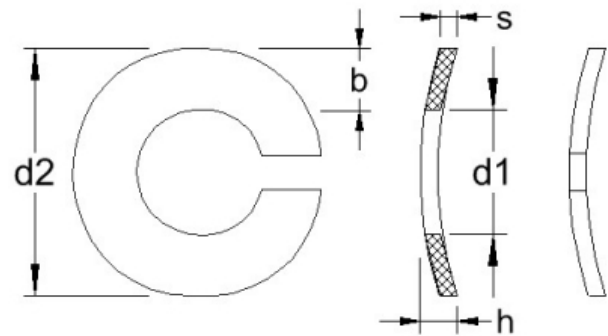


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 | 37 | 40 | 43 | 46 | 50 | 54 | * | | | | | | | | | | | | |
| d2 | 66 | 66 | 75 | 85 | 92 | 98 | * | | | | | | | | | | | | |
| h | 5 | 6 | 7 | 7 | 8 | 8 | * | | | | | | | | | | | | |
| length/dim | M36 | M39 | M42 | M45 | M48 | M52 | M56 | | | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |

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HOCHSPANN-FEDERRINGE, FORM A (GEWÖLBT) DIN 128

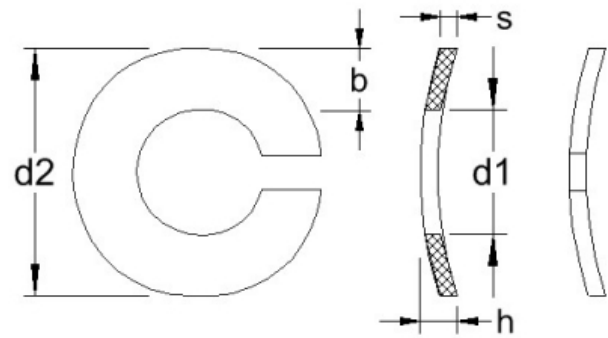


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| b | 0.9 | 0.9 | 1.0 | 1.0 | 1.3 | 1.3 | 1.5 | 1.8 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.0 | 6.0 | 6.0 |
| d1 (min) | 2.1 | 2.4 | 2.6 | 2.7 | 3.1 | 3.6 | 4.1 | 5.1 | 6.1 | 8.1 | 10.2 | 12.2 | 14.2 | 16.2 | 18.2 | 20.2 | 22.5 |
| d2 (max) | 4.4 | 4.9 | 5.1 | 5.2 | 6.2 | 6.7 | 7.6 | 9.2 | 11.8 | 14.8 | 18.1 | 21.1 | 24.1 | 27.4 | 29.4 | 33.6 | 35.9 |
| h | 0.70-0.90 | 0.90-1.10 | 0.90-1.10 | 0.90-1.10 | 1.10-1.30 | 1.10-1.30 | 1.20-1.40 | 1.50-1.70 | 2.00-2.20 | 2.45-2.75 | 2.85-3.15 | 3.35-3.65 | 3.90-4.30 | 4.50-5.10 | 4.50-5.10 | 5.10-5.90 | 5.10-5.90 |
| s | 0.5 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 1.0 | 1.3 | 1.6 | 1.8 | 2.1 | 2.4 | 2.8 | 2.8 | 3.2 | 3.2 |
| length/dim | M2 | M2.3 | M2.5 | M2.6 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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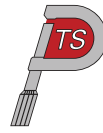
HOCHSPANN-FEDERRINGE, FORM A (GEWÖLBT) DIN 128



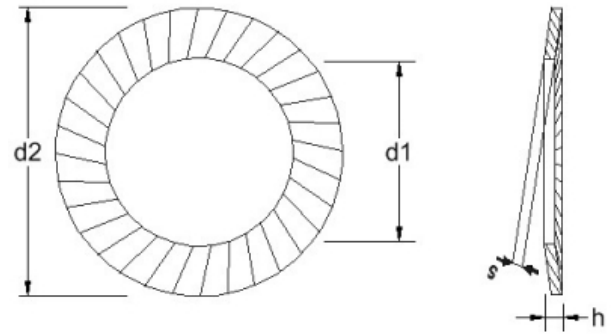
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|-----------|-----------|------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b | 7.0 | 7.0 | 8.0 | 10.0 | | | | | | | | | | | | | | | |
| d1 (min) | 24.5 | 27.5 | 30.5 | 36.5 | | | | | | | | | | | | | | | |
| d2 (max) | 40.0 | 43.0 | 48.2 | 58.2 | | | | | | | | | | | | | | | |
| h | 6.50-7.50 | 6.50-7.50 | 9.50-10.50 | 10.30-11.30 | | | | | | | | | | | | | | | |
| s | 4.0 | 4.0 | 6.0 | 6.0 | | | | | | | | | | | | | | | |
| length/dim | M24 | M27 | M30 | M36 | | | | | | | | | | | | | | | |
| | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | | | | | |

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SICHERUNGSSCHEIBEN 'S'

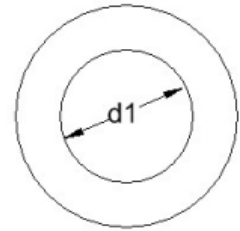
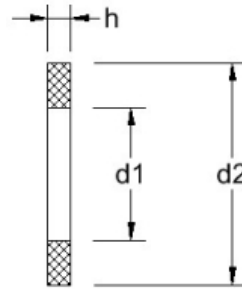


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|--|--|
| d1 | 2.2 | 2.7 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 25 | | |
| d2 | 4.0 | 4.8 | 5.5 | 6.0 | 7.0 | 9.0 | 10 | 13 | 16 | 18 | 22 | 24 | 27 | 30 | 36 | | |
| h (max) | 0.8 | 0.9 | 0.9 | 1.0 | 1.0 | 1.1 | 1.2 | 1.4 | 1.6 | 1.7 | 2.0 | 2.1 | 2.2 | 2.4 | 2.7 | | |
| s | 0.35 | 0.45 | 0.45 | 0.45 | 0.50 | 0.60 | 0.70 | 0.80 | 1.00 | 1.10 | 1.20 | 1.30 | 1.50 | 1.5 | 1.8 | | |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |

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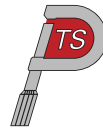
SCHEIBEN FÜR HOLZKONSTRUKTIONEN, DIN 440, FORM R



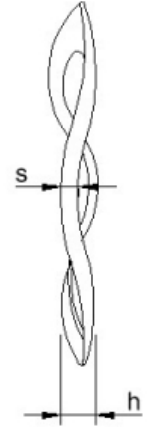
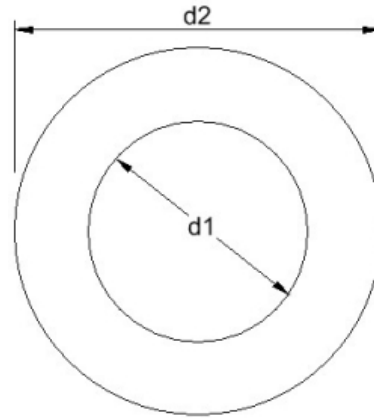
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|----|-----|------|------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|
| d1 | 5.5 | 6.6 | 9 | 11 | 13.5 | 17.5 | 22 | 24 | 26 | 30 | | | | | | | | | | |
| d2 | 18 | 22 | 28 | 34 | 44 | 56 | 72 | 80 | 85 | 98 | | | | | | | | | | |
| h | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M22 | M24 | M27 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | |

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FEDERSCHEIBEN BS4463

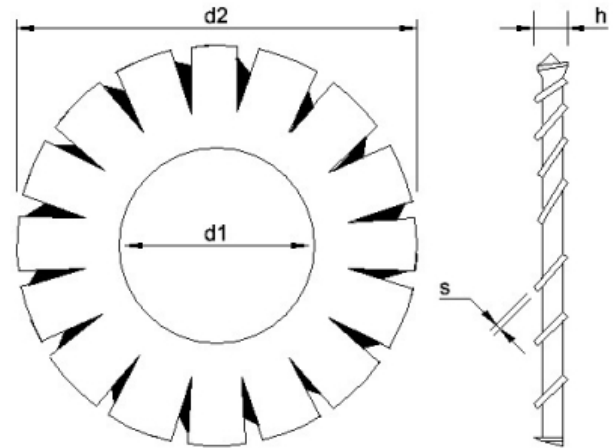


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| d1 (min) | 1.7 | 2.2 | 2.7 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 17 | 21 | | | | |
| d2 (max) | 3.7 | 4.6 | 5.8 | 6.4 | 6.9 | 8.1 | 9.2 | 11.5 | 15 | 19.6 | 22 | 27.8 | 34.7 | | | | |
| h (max) | 0.51 | 0.53 | 0.53 | 0.61 | 0.79 | 0.84 | 0.89 | 1.14 | 1.4 | 1.7 | 1.9 | 2.41 | 2.66 | | | | |
| s | 0.16 | 0.16 | 0.16 | 0.16 | 0.20 | 0.28 | 0.30 | 0.40 | 0.40 | 0.55 | 0.55 | 0.70 | 0.70 | | | | |
| length/dim | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |

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FÄCHERSCHEIBEN FORM A DIN 6798

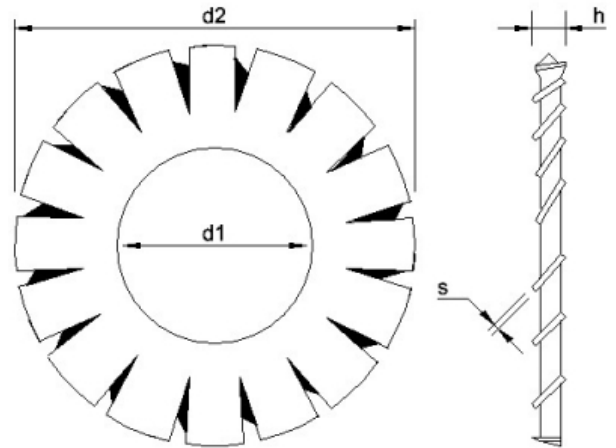


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| d1 (min) | 2.2 | 2.7 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 7.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 |
| d2 (max) | 4.5 | 5.5 | 6 | 7 | 8 | 10 | 11 | 12.5 | 15 | 18 | 20.5 | 24 | 26 | 30 | 33 | 36 | 38 |
| h | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' | 3 x 's' |
| s | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 1 | 1 | 1.2 | 1.4 | 1.4 | 1.5 | 1.5 |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
| | ● ▲ | ● ▲ | ● ▲ | ● | ● ▲ | ● ▲ | ● ▲ | ● | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ |

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FÄCHERSCHEIBEN FORM A DIN 6798

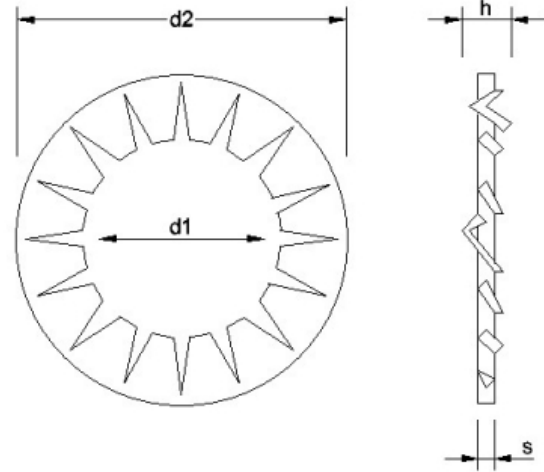


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 (min) | 28 | 31 | | | | | | | | | | | | | | | | | | |
| d2 (max) | 44 | 48 | | | | | | | | | | | | | | | | | | |
| h | 3 x 's' | 3 x 's' | | | | | | | | | | | | | | | | | | |
| s | 1.6 | 1.6 | | | | | | | | | | | | | | | | | | |
| length/dim | M27 | M30 | | | | | | | | | | | | | | | | | | |
| | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | |

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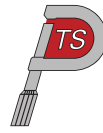
FÄCHERSCHEIBEN FORM J DIN 6798



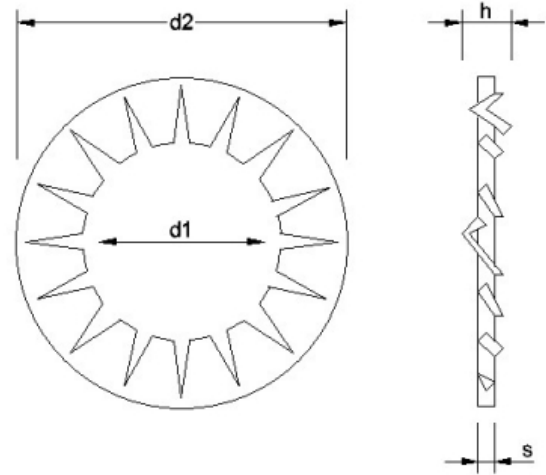
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| d1 | 2.2 | 2.7 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 |
| d2 (max) | 4.5 | 5.5 | 6 | 7 | 8 | 10 | 11 | 12.5 | 15 | 18 | 20.5 | 24 | 26 | 30 | 33 | 36 | 38 |
| h | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' | 3 x 'S' |
| s (max) | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 1 | 1 | 1.2 | 1.4 | 1.4 | 1.5 | 1.5 |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
| | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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FÄCHERSCHEIBEN FORM J DIN 6798

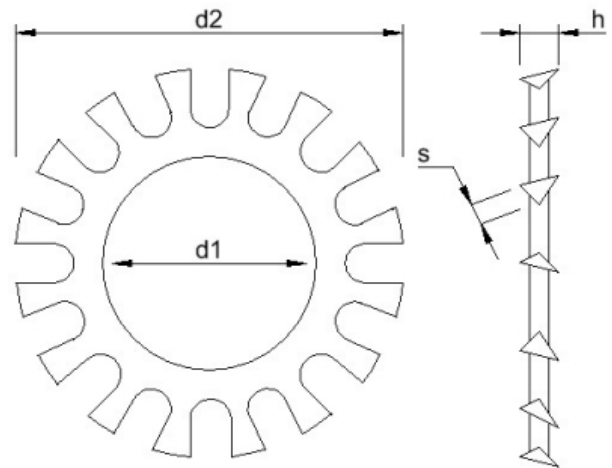


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 | 28 | 31 | | | | | | | | | | | | | | | |
| d2 (max) | 44 | 48 | | | | | | | | | | | | | | | |
| h | 3 x 'S' | 3 x 'S' | | | | | | | | | | | | | | | |
| s (max) | 1.6 | 1.6 | | | | | | | | | | | | | | | |
| length/dim | M27 | M30 | | | | | | | | | | | | | | | |
| | ● ▲ | ● ▲ | | | | | | | | | | | | | | | |

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ZAHNSCHEIBEN FORM A DIN 6797

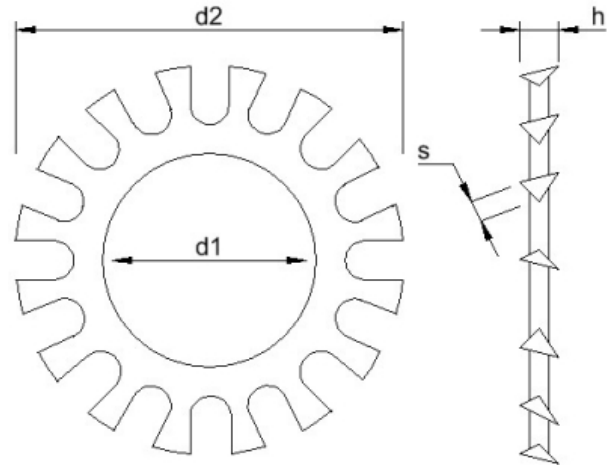


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| d1 (min) | 2.2 | 2.7 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 7.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 |
| d2 (max) | 4.5 | 5.5 | 6 | 7 | 8 | 10 | 11 | 12.5 | 15 | 18 | 20.5 | 24 | 26 | 30 | 33 | 36 | 38 |
| h (min) | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' |
| s | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 1 | 1 | 1.2 | 1.4 | 1.4 | 1.5 | 1.5 |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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ZAHNSCHEIBEN FORM A DIN 6797

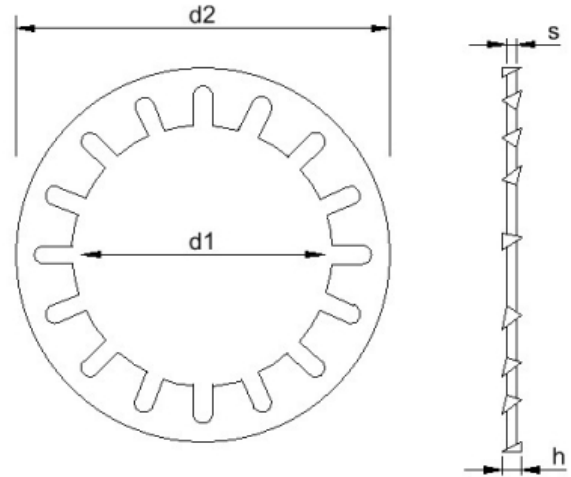


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 (min) | 28 | 31 | | | | | | | | | | | | | | | | | | |
| d2 (max) | 44 | 48 | | | | | | | | | | | | | | | | | | |
| h (min) | 2 x 's' | 2 x 's' | | | | | | | | | | | | | | | | | | |
| s | 1.6 | 1.6 | | | | | | | | | | | | | | | | | | |
| length/dim | M27 | M30 | | | | | | | | | | | | | | | | | | |
| | ● | ● | | | | | | | | | | | | | | | | | | |

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ZAHNSCHEIBEN FORM J DIN 6797

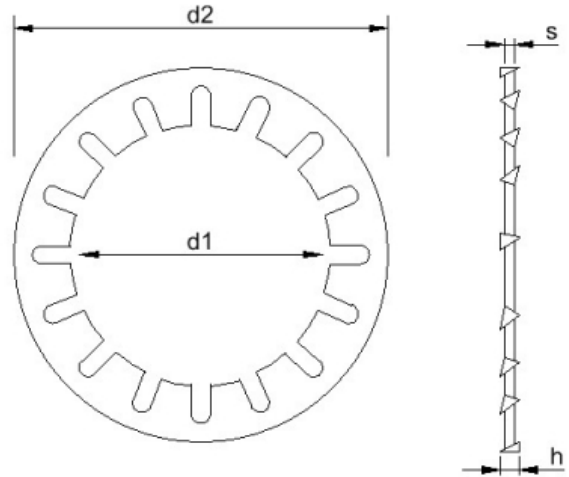


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| d1 (min) | 2.2 | 2.7 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 7.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 |
| d2 (max) | 4.5 | 5.5 | 6 | 7 | 8 | 10 | 11 | 12.5 | 15 | 18 | 20.5 | 24 | 26 | 30 | 33 | 36 | 38 |
| h (min) | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' | 2 x 's' |
| s | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 1 | 1 | 1.2 | 1.4 | 1.4 | 1.5 | 1.5 |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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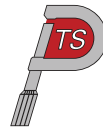
ZAHNSCHEIBEN FORM J DIN 6797



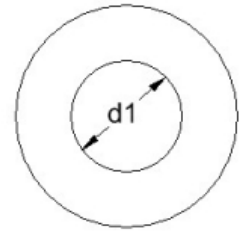
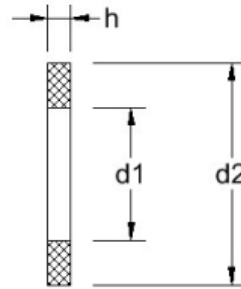
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | |
|------------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 (min) | 28 | 31 | | | | | | | | | | | | | | | | | | |
| d2 (max) | 44 | 48 | | | | | | | | | | | | | | | | | | |
| h (min) | 2 x 's' | 2 x 's' | | | | | | | | | | | | | | | | | | |
| s | 1.6 | 1.6 | | | | | | | | | | | | | | | | | | |
| length/dim | M27 | M30 | | | | | | | | | | | | | | | | | | |
| | ● | ● | | | | | | | | | | | | | | | | | | |

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UNTERLEGSCHIEBEN AUßENDURCHMESSER 3 X SCHRAUBENDURCHMESSER DIN 9021

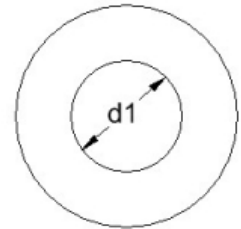
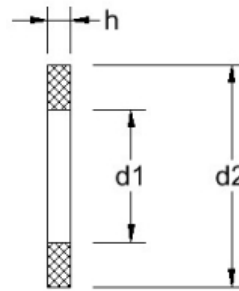


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| d1 | 2.2 | 2.7 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 7.4 | 8.4 | 10.5 | 13 | 15 | 17 | 20 | 22 | 26 | 33 |
| d2 | 7 | 8 | 9 | 11 | 12 | 15 | 18 | 22 | 24 | 30 | 37 | 44 | 50 | 56 | 60 | 72 | 92 |
| h | 0.8 | 0.8 | 0.8 | 0.8 | 1 | 1.2 | 1.6 | 2 | 2 | 2.5 | 3 | 3 | 3 | 4 | 4 | 5 | 6 |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M30 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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UNTERLEGSCHIBEN AUßENDURCHMESSER 3 X SCHRAUBENDURCHMESSER DIN 9021

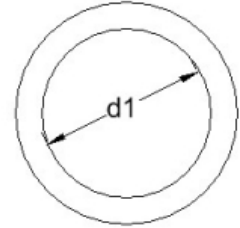
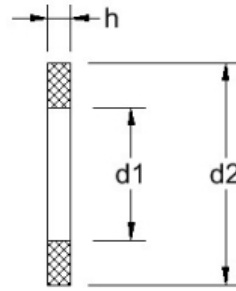


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 | 39 | | | | | | | | | | | | | | | | | | |
| d2 | 110 | | | | | | | | | | | | | | | | | | |
| h | 8 | | | | | | | | | | | | | | | | | | |
| length/dim | M36 | | | | | | | | | | | | | | | | | | |
| | ● ▲ | | | | | | | | | | | | | | | | | | |

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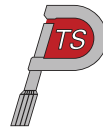
UNTERLEGSCHLEIBEN FÜR ZYLINDERSCHRAUBEN DIN 433



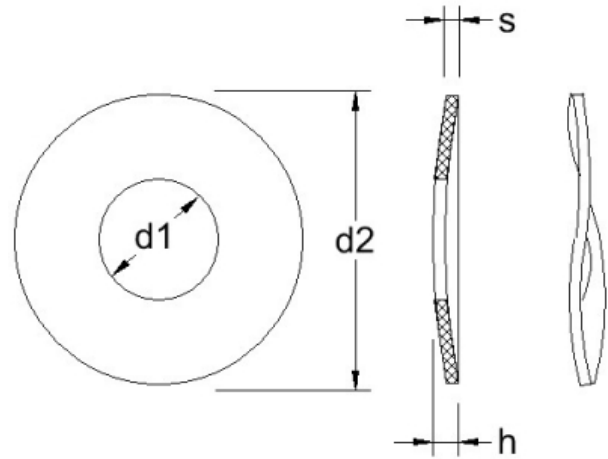
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|-----|------|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|----|--|
| d1 | 1.5 | 1.7 | 2.2 | 2.7 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | | |
| d2 | 3 | 3.5 | 4.5 | 5 | 6 | 7 | 8 | 9 | 11 | 15 | 18 | 20 | 24 | 28 | 30 | 34 | | |
| h | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1.6 | 1.6 | 1.6 | 2 | 2.5 | 2.5 | 2.5 | 3 | | |
| length/dim | M1.4 | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | | |
| | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | |

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FEDERSCHEIBEN FORM B (GEWELLT) DIN 137

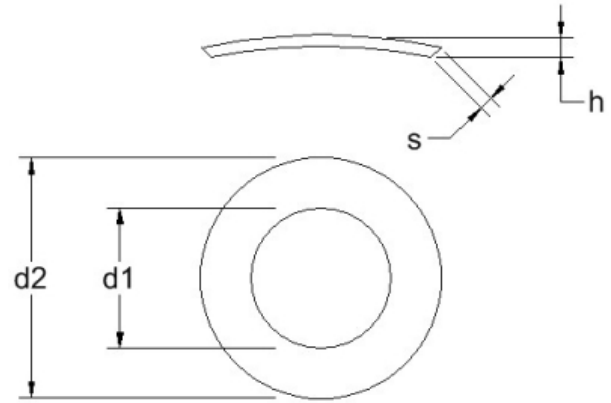


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| d1 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 7.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 28 | |
| d2 | 8 | 8 | 9 | 11 | 12 | 14 | 15 | 21 | 24 | 28 | 30 | 34 | 36 | 40 | 44 | 50 | |
| h (max) | 1.6 | 1.8 | 2 | 2.2 | 2.6 | 3 | 3 | 4.2 | 5 | 6 | 6.4 | 6.6 | 7.4 | 7.8 | 8.2 | 9.4 | |
| s | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 1 | 1.2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.8 | 1.8 | 2.0 | |
| length/dim | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | |
| | ● ▲ | ● | ● ▲ | ● ▲ | ● ▲ | ● | ● ▲ | ● | ● | ● | ● | ● | ● | ● | ● | ● | |

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FEDERSCHEIBEN FORM A (GEWÖLBT) DIN 137

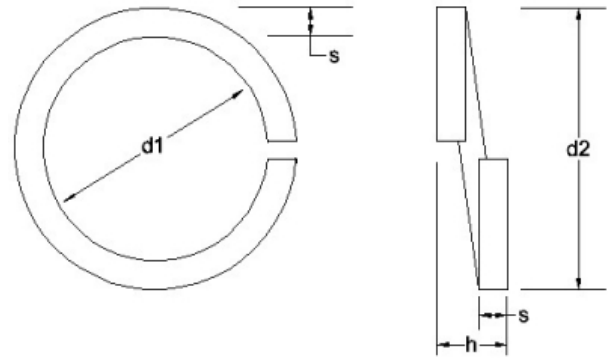


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|-----|------|------|------|-----|------|-----|-----|-----|-----|-----|------|--|--|
| d1 | 1.5 | 1.7 | 1.8 | 2.2 | 2.5 | 2.8 | 2.8 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 7.4 | 8.4 | 10.5 | | |
| d2 | 3.0 | 4.0 | 4 | 4.5 | 5 | 5.5 | 5.5 | 6 | 7 | 8 | 10 | 11 | 12 | 15 | 18 | | |
| h (max) | 0.7 | 0.9 | 0.9 | 1 | 1 | 1.1 | 1.1 | 1.3 | 1.4 | 1.6 | 1.8 | 2.2 | 2.4 | 3.4 | 4 | | |
| s | 0.25 | 0.25 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | | |
| length/dim | M1.4 | M1.6 | M1.7 | M2 | M2.3 | M2.5 | M2.6 | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |

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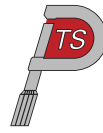
FEDERRINGE FÜR ZYLINDERSCHRAUBEN, DIN 7980



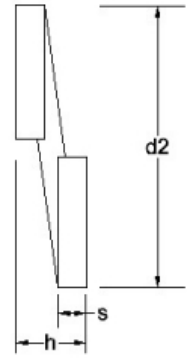
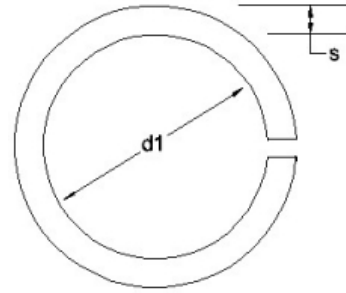
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| d1 (min) | 2.1 | 2.6 | 3.1 | 3.6 | 4.1 | 5.1 | 6.1 | 8.1 | 10.2 | 12.2 | 14.2 | 16.2 | 18.2 | 20.2 | 22.5 | 24.5 | 27.5 |
| d2 (max) | * | * | 5.6 | 6.1 | 7 | 8.8 | 9.9 | 12.7 | 16 | 18 | 21.1 | 24.4 | 26.4 | 30.6 | 32.9 | 35.9 | 38.9 |
| h | * | * | 2 | 2 | 2.4 | 3.2 | 3.2 | 4 | 5 | 5 | 6 | 7 | 7 | 9 | 9 | 10 | 10 |
| s | * | * | 1 | 1 | 1.2 | 1.6 | 1.6 | 2 | 2.5 | 2.5 | 3 | 3.5 | 3.5 | 4.5 | 4.5 | 5 | 5 |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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FEDERRINGE FÜR ZYLINDERSCHRAUBEN, DIN 7980

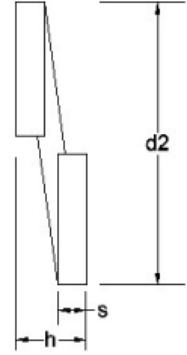
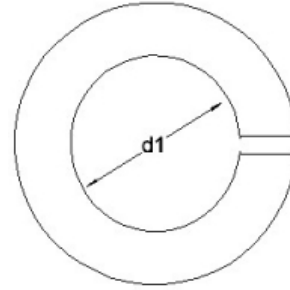


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d1 (min) | 30.5 | | | | | | | | | | | | | | | | | | | |
| d2 (max) | 44.1 | | | | | | | | | | | | | | | | | | | |
| h | 12 | | | | | | | | | | | | | | | | | | | |
| s | 6 | | | | | | | | | | | | | | | | | | | |
| length/dim | M30 | | | | | | | | | | | | | | | | | | | |
| | ● ▲ | | | | | | | | | | | | | | | | | | | |

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FEDERRINGE, DIN 127B

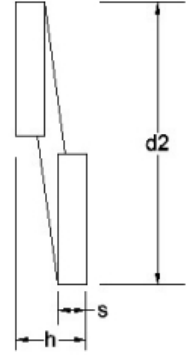
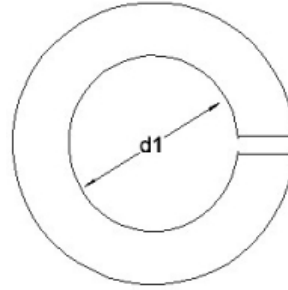


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|---|------|-----|------|------|-----|------|-----|------|------|------|------|------|------|------|------|------|-----|
| d1 (min) | * | 2.1 | 2.6 | 2.7 | 3.1 | 3.6 | 4.1 | 5.1 | 6.1 | 7.1 | 8.1 | 10.2 | 12.2 | 14.2 | 16.2 | 18.2 | 20.2 | |
| d2 (max) | * | 4.4 | 5.1 | 5.2 | 6.2 | 6.7 | 7.6 | 9.2 | 11.8 | 12.8 | 14.8 | 18.1 | 21.1 | 24.1 | 27.4 | 29.4 | 33.6 | |
| h | * | 1 | 1.2 | 1.2 | 1.6 | 1.6 | 1.8 | 2.4 | 3.2 | 3.2 | 4 | 4.4 | 5 | 6 | 7 | 7 | 8 | |
| s | * | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 1.2 | 1.6 | 1.6 | 2 | 2.2 | 2.5 | 3 | 3.5 | 3.5 | 4 | |
| length/dim | | M1.6 | M2 | M2.5 | M2.6 | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 |
| | | ●▲ | ●▲ | ●▲ | ▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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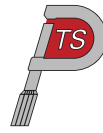
FEDERRINGE, DIN 127B



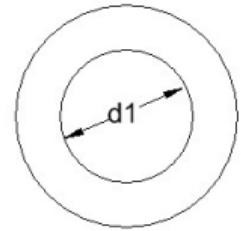
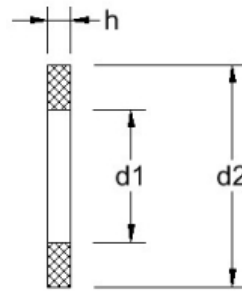
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|
| d1 (min) | 22.5 | 24.5 | 27.5 | 30.5 | | | | | | | | | | | | | | |
| d2 (max) | 35.9 | 40 | 43 | 48.2 | | | | | | | | | | | | | | |
| h | 8 | 10 | 10 | 12 | | | | | | | | | | | | | | |
| s | 4 | 5 | 5 | 6 | | | | | | | | | | | | | | |
| length/dim | M22 | M24 | M27 | M30 | M33 | M36 | M39 | | | | | | | | | | | |
| | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | |

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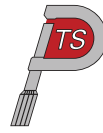
KAROSSERIESCHEIBEN



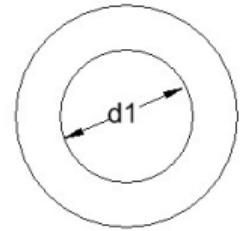
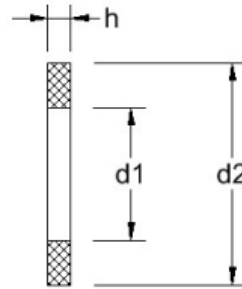
Material Grades: A2: ● A4: ▲

| d1 | 4.3 | 4.3 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | | | | | | | | | |
|------------|-----|------|-----|-----|-----|-----|------|-----|--|--|--|--|--|--|--|--|--|
| h (max) | 1 | 1.25 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | | | | | | | | |
| length/dim | M4 | M4 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | |
| 12 | ● ▲ | | | | | | | | | | | | | | | | |
| 15 | ● ▲ | | | ● ▲ | | | | | | | | | | | | | |
| 20 | | ● ▲ | | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | |
| 25 | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | |
| 30 | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | |
| 35 | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | |
| 40 | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | |

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UNTERLEGSCHIEBEN FORM C, BS4320



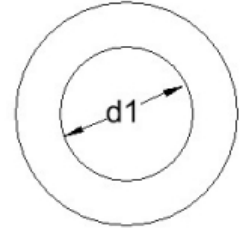
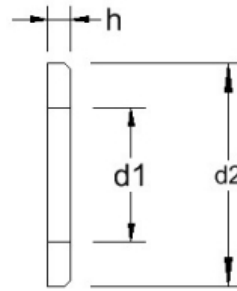
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----|-----|------|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|
| d1 | 4.3 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 17 | 21 | | | | | | | | | | |
| d2 | 10 | 12.5 | 14 | 21 | 24 | 28 | 34 | 39 | | | | | | | | | | |
| h (max) | 0.8 | 1 | 1.6 | 1.6 | 2 | 2.5 | 3 | 3 | | | | | | | | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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UNTERLEGSCHIEBEN FORM B, BS4320

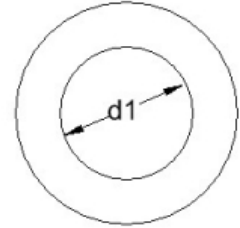
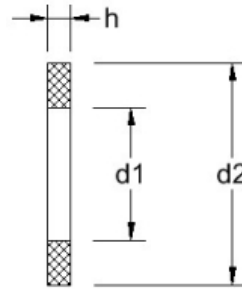


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|
| d1 | 5.3 | 6.4 | 8.4 | 10.5 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | | | | | | | | |
| d2 | 10 | 12.5 | 17 | 21 | 24 | 28 | 30 | 34 | 37 | 39 | 44 | | | | | | | | |
| h | 0.8 | 0.8 | 1 | 1.25 | 1.6 | 1.6 | 2 | 2 | 2 | 2 | 2.5 | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |

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UNTERLEGSCHIEBEN FORM A, DIN 125A

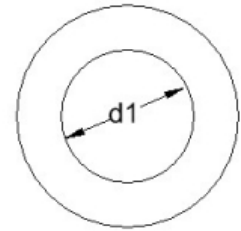
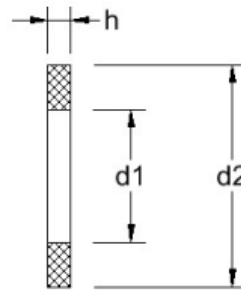


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----|------|------|------|------|-----|------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|
| d1 | 1.1 | 1.3 | 1.5 | 1.7 | 1.8 | 2.2 | 2.7 | 3.2 | 3.7 | 4.3 | 5.3 | 6.4 | 7.4 | 8.4 | 10.5 | 13 | 15 |
| d2 | 3.2 | 3.8 | 3.8 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 20 | 24 | 28 |
| h | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.8 | 1 | 1.6 | 1.6 | 1.6 | 2 | 2.5 | 2.5 |
| length/dim | M1 | M1.2 | M1.4 | M1.6 | M1.7 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 |
| | ● | ● | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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UNTERLEGSCHIEBEN FORM A, DIN 125A

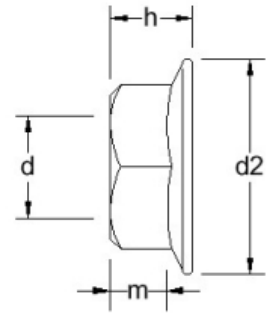
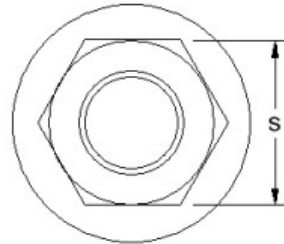


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| d1 | 17 | 19 | 21 | 23 | 25 | 28 | 31 | 34 | 37 | 40 | 43 | 46 | 50 | 54 | 58 | | |
| d2 | 30 | 34 | 37 | 39 | 44 | 50 | 56 | 60 | 66 | 66 | 75 | 85 | 92 | 98 | 105 | | |
| h | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | | |
| length/dim | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M39 | M42 | M45 | M48 | M52 | M56 | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |

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SECHSKANTMUTTERN MIT FLANSCH NACH SPERRVERZÄHNUNG DIN 6923

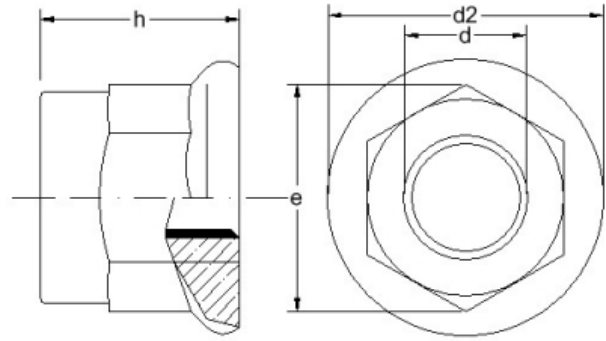


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d2 (max) | 10 | 11.8 | 14.2 | 17.9 | 21.8 | 26 | | | | | | | | | | | | | |
| h (max) | 4.65 | 5.0 | 6.0 | 8.0 | 10 | 12 | | | | | | | | | | | | | |
| m (min) | 1.9 | 2.2 | 3.1 | 4.5 | 5.5 | 6.7 | | | | | | | | | | | | | |
| Pitch | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | | | | | | | | | | | | | |
| s (max) | 7.0 | 8.0 | 10 | 13 | 15 | 18 | | | | | | | | | | | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |

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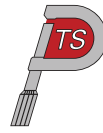
FLANSCHMÜTTERN SELBSTSICHERND MIT SPERRVERZÄHNUNG DIN 6926



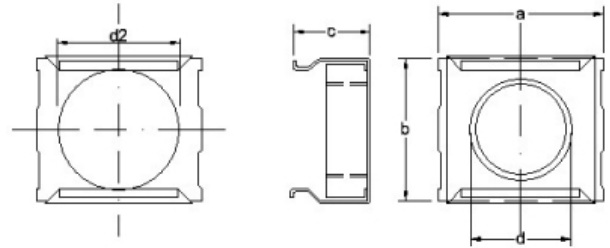
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| d2 (max) | 7.8 | 10 | 11.8 | 14.2 | 17.9 | 21.8 | 26 | | | | | | | | | | | | |
| Drive | SW6 | SW7 | SW8 | SW10 | SW13 | SW15 | SW18 | | | | | | | | | | | | |
| e | 6.33 | 7.66 | 8.79 | 11.05 | 14.38 | 16.64 | 20.03 | | | | | | | | | | | | |
| h (max) | * | * | 7.1 | 9.1 | 11.1 | 13.5 | 16.1 | | | | | | | | | | | | |
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | | | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |

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KäFIGMUTTERN

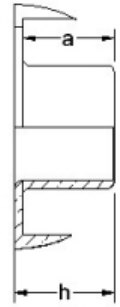
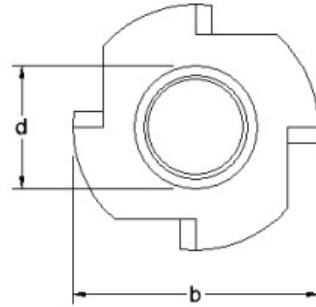


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| a | 13.8 | 16.5 | 16.5 | | | | | | | | | | | | | | | | | |
| b | 13 | 15.5 | 15.5 | | | | | | | | | | | | | | | | | |
| c | 9.3 | 12 | 12 | | | | | | | | | | | | | | | | | |
| d2 | 7 | 10.5 | 10.5 | | | | | | | | | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | | | | | | | | | | | | | | | | | |
| length/dim | M6 | M8 | M10 | | | | | | | | | | | | | | | | | |
| | ● | ● | ● | | | | | | | | | | | | | | | | | |

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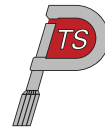
EINSCHLAGMUTTERN, FÜR HOLZ (T-MUTTERN)



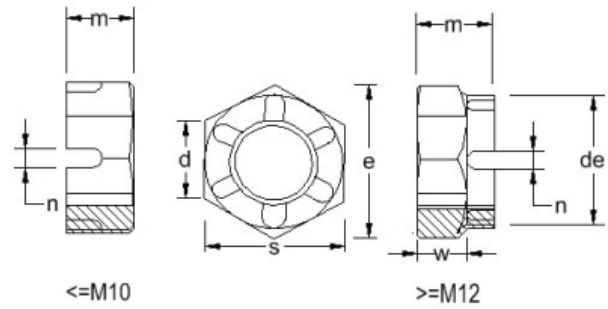
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| a (min) | 3.1 | 3.5 | 6.8 | 9.4 | | | | | | | | | | | | | | | |
| b | 17 | 19 | 22 | 25 | | | | | | | | | | | | | | | |
| h | 8 | 9 | 11 | 12 | | | | | | | | | | | | | | | |
| Pitch | 0.8 | 1.00 | 1.25 | 1.50 | | | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | | | | | | | | | | | | | | | |
| | ● | ● | ● | ● | | | | | | | | | | | | | | | |

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KRONENMÜTTERN, NIEDRIGE FORM, DIN 937

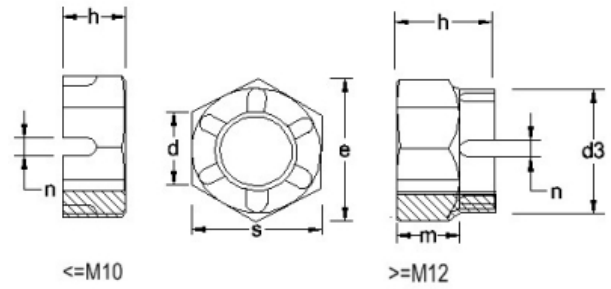


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| de (min) | - | - | - | 16.57 | 18.48 | 21.48 | 24.30 | 27.30 | 33.00 | 37.00 | 41.00 | | | | | | |
| e | 11.05 | 14.38 | 18.90 | 20.10 | 24.49 | 26.75 | 29.56 | 32.95 | 39.55 | 45.20 | 50.85 | | | | | | |
| m (min) | 5.7 | 7.64 | 8.64 | 9.64 | 10.57 | 11.57 | 12.30 | 12.30 | 14.30 | 16.30 | 17.30 | | | | | | |
| n (min) | 2.0 | 2.5 | 2.8 | 3.5 | 3.5 | 4.5 | 4.5 | 4.5 | 5.5 | 5.5 | 7.0 | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | | | | | | |
| s | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 36 | 41 | 46 | | | | | | |
| w | 3.5 | 4.5 | 5.0 | 6.0 | 7.0 | 7.0 | 8.0 | 8.0 | 9.0 | 11.0 | 11.0 | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M27 | M30 | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |

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KRONENMÜTTERN DIN 935

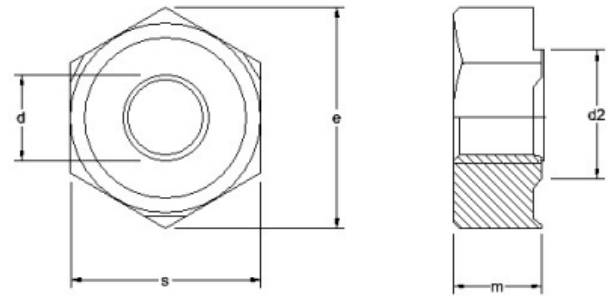


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| d3 | - | - | - | - | 17 | 19 | 22 | 25 | 28 | 34 | 38 | 42 | 50 | | | | |
| e | 8.87 | 11.05 | 14.38 | 18.90 | 21.10 | 24.49 | 26.75 | 30.14 | 33.53 | 39.98 | 45.63 | 51.28 | 55.80 | | | | |
| h | 6.0 | 7.5 | 9.5 | 12.0 | 15.0 | 16.0 | 19.0 | 21.0 | 22.0 | 27.0 | 30.0 | 33.0 | 38.0 | | | | |
| m | 4.0 | 5.0 | 6.5 | 8.0 | 10.0 | 11.0 | 13.0 | 15.0 | 16.0 | 19.0 | 22.0 | 24.0 | 29.0 | | | | |
| n | 1.4 | 2.0 | 2.5 | 2.8 | 3.5 | 3.5 | 4.5 | 4.5 | 4.5 | 5.5 | 5.5 | 7.0 | 7.0 | | | | |
| Pitch | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | 4.00 | | | | |
| s | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 36 | 41 | 46 | 55 | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M27 | M30 | M36 | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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SECHSKANT-SCHWEIßMUTTERN DIN 929

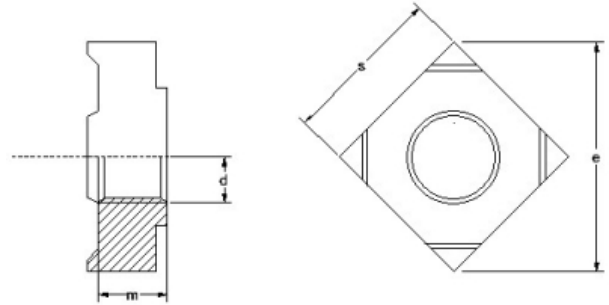
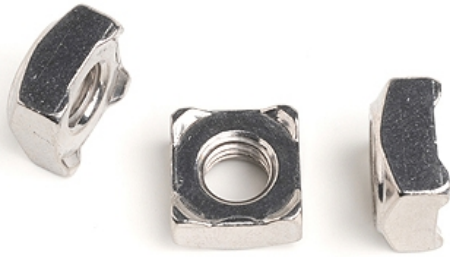


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| d2 | 4.5 | 6.0 | 7.0 | 8.0 | 10.5 | 12.5 | 14.8 | 18.8 | | | | | | | | | | |
| e | 8.15 | 9.83 | 10.95 | 12.02 | 15.38 | 18.74 | 20.91 | 26.51 | | | | | | | | | | |
| m | 3.0 | 3.5 | 4.0 | 5.0 | 6.5 | 8.0 | 10.0 | 13.0 | | | | | | | | | | |
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | | | | | | | | | | |
| s | 7.5 | 9 | 10 | 11 | 14 | 17 | 19 | 24 | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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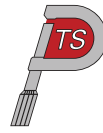
VIERKANT-SCHWEIßMUTTERN DIN 928



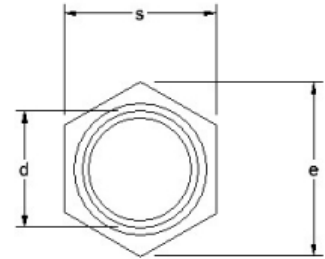
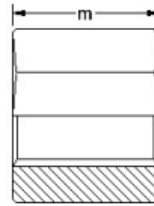
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| e | 12 | 13 | 18 | | | | | | | | | | | | | | | | | |
| m | 4.2 | 5.0 | 6.5 | | | | | | | | | | | | | | | | | |
| Pitch | 0.80 | 1.00 | 1.25 | | | | | | | | | | | | | | | | | |
| s | 9 | 10 | 14 | | | | | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | | | | | | | | | | | | | | | | | |
| | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | | | | | | | |

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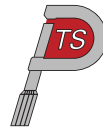
SECHSKANTMUTTERN (LANGMUTTERN), HÖHE M = 3D, DIN 6334



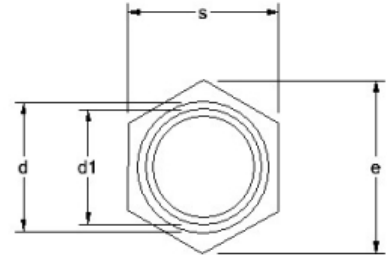
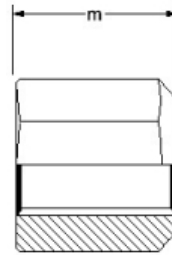
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|
| e | 11.1 | 15.0 | 19.6 | 21.9 | 25.5 | 27.7 | 34.6 | 41.6 | 53.1 | | | | | | | | | |
| m | 18 | 24 | 30 | 36 | 42 | 48 | 60 | 72 | 90 | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 | 3.50 | | | | | | | | | |
| s | 10 | 13 | 17 | 19 | 22 | 24 | 30 | 36 | 46 | | | | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 | M30 | | | | | | | | | |
| 18 | ● ▲ | | | | | | | | | | | | | | | | | |
| 24 | | ● ▲ | | | | | | | | | | | | | | | | |
| 30 | | | ● ▲ | | | | | | | | | | | | | | | |
| 36 | | | | ● ▲ | | | | | | | | | | | | | | |
| 42 | | | | | ● ▲ | | | | | | | | | | | | | |
| 48 | | | | | | ● ▲ | | | | | | | | | | | | |
| 60 | | | | | | | ● ▲ | | | | | | | | | | | |
| 72 | | | | | | | | ● ▲ | | | | | | | | | | |
| 90 | | | | | | | | | ● ▲ | | | | | | | | | |

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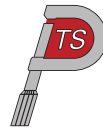
SECHSKANTMUTTERN, 1.5 D HOCH, FORM B, DIN 6330



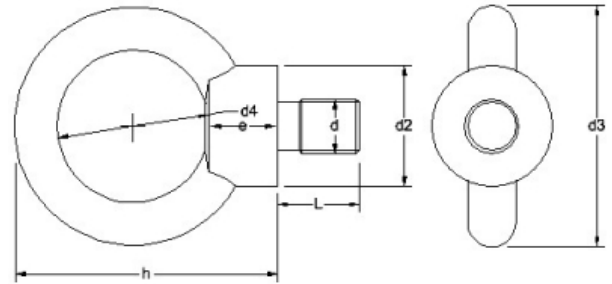
Material Grades: A2: ● A4: ▲

| d1 | 7.0 | 9.0 | 11.5 | 14.0 | 16.0 | 18.0 | 22.0 | 26.0 | 29.0 | 32.0 | 35.0 | 38.0 | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| e | 11.05 | 14.38 | 17.77 | 20.03 | 25.30 | 26.75 | 33.53 | 39.98 | 46.55 | 51.28 | 57.50 | 61.31 | | | | | | |
| m | 9 | 12 | 15 | 18 | 21.5 | 24 | 30 | 36 | 40.5 | 45 | 49.5 | 54 | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 | 3.00 | 3.50 | 3.50 | 4.00 | | | | | | |
| s | 10 | 13 | 16 | 18 | 22 | 24 | 30 | 36 | 41 | 46 | 50 | 55 | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 | M27 | M30 | M33 | M36 | | | | | | |
| 9 | ● ▲ | | | | | | | | | | | | | | | | | |
| 12 | | ● ▲ | | | | | | | | | | | | | | | | |
| 15 | | | ● ▲ | | | | | | | | | | | | | | | |
| 18 | | | | ● ▲ | | | | | | | | | | | | | | |
| 22 | | | | | ● ▲ | | | | | | | | | | | | | |
| 24 | | | | | | ● ▲ | | | | | | | | | | | | |
| 30 | | | | | | | ● ▲ | | | | | | | | | | | |
| 36 | | | | | | | | ● ▲ | | | | | | | | | | |
| 41 | | | | | | | | | ● ▲ | | | | | | | | | |
| 45 | | | | | | | | | | ● ▲ | | | | | | | | |
| 50 | | | | | | | | | | | ● ▲ | | | | | | | |
| 54 | | | | | | | | | | | | ● ▲ | | | | | | |

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RINGSCHRAUBEN DIN 580

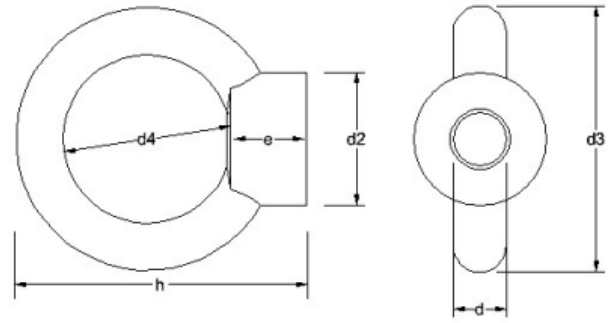


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| d2 | 16 | 20 | 25 | 30 | 35 | 40 | 50 | | | | | | | | | | | | |
| d3 | 27 | 36 | 45 | 54 | 63 | 72 | 90 | | | | | | | | | | | | |
| d4 | 16 | 20 | 25 | 30 | 35 | 40 | 50 | | | | | | | | | | | | |
| e | 6 | 6 | 8 | 10 | 12 | 14 | 18 | | | | | | | | | | | | |
| h | 31 | 36 | 45 | 53 | 62 | 71 | 90 | | | | | | | | | | | | |
| L | 11.0 | 13.0 | 17.0 | 20.5 | 27.0 | 30.0 | 36.0 | | | | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 | | | | | | | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |

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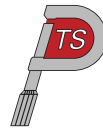
RINGMUTTERN DIN 582



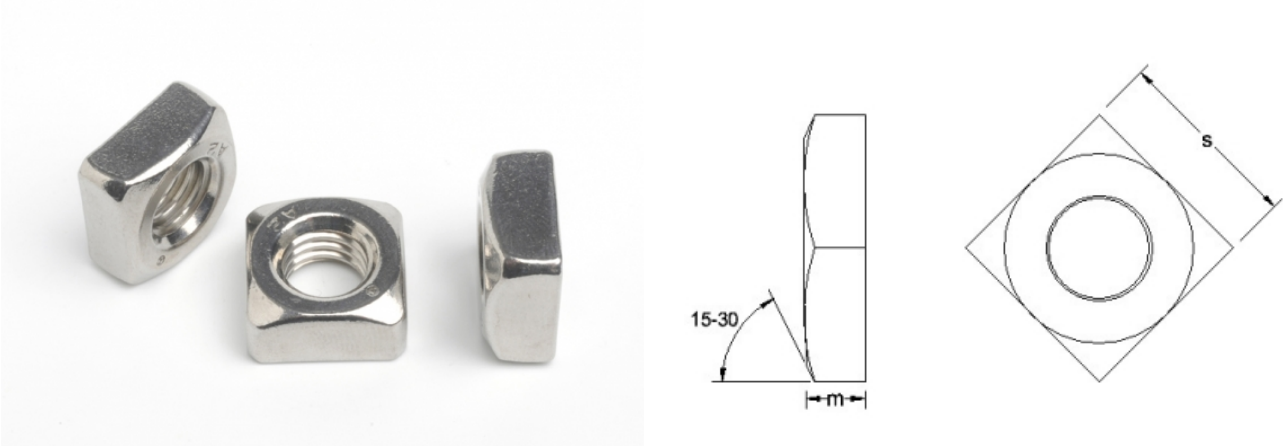
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| d2 | 16 | 20 | 25 | 30 | 35 | 40 | 50 | 65 | | | | | | | | | | |
| d3 | 27 | 36 | 45 | 54 | 63 | 72 | 90 | 108 | | | | | | | | | | |
| d4 | 16 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | | | | | | | | | | |
| e | 8.0 | 8.5 | 10.0 | 11.0 | 13.0 | 16.0 | 20.0 | 25.0 | | | | | | | | | | |
| h | 31 | 36 | 45 | 53 | 62 | 71 | 90 | 109 | | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 | 3.50 | | | | | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M16 | M20 | M24 | M30 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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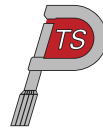
VIERKANTMUTTERN DIN 557



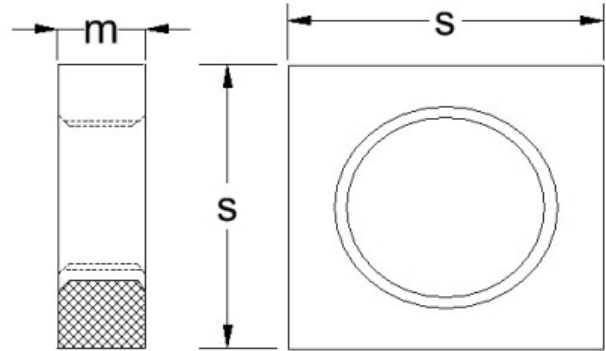
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| m | 4.0 | 5.0 | 6.5 | 8.0 | 10 | 13 | | | | | | | | | | | | | |
| Pitch | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | | | | | | | | | | | | | |
| s | 8.0 | 10 | 13 | 17 | 19 | 24 | | | | | | | | | | | | | |
| length/dim | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | | | |
| | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | | | |

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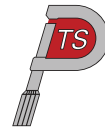
VIERKANTMUTTERN, NIEDRIGE FORM DIN 562



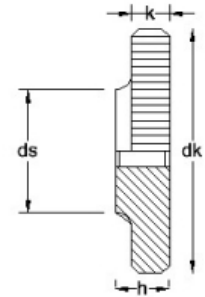
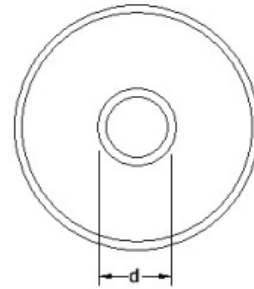
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| m | 1.2 | 1.6 | 1.8 | 2.2 | 2.7 | 3.2 | 4 | 5 | | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | | | | | | | | | | |
| s | 4.0 | 5.0 | 5.5 | 7.0 | 8.0 | 10 | 13 | 17 | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | |
| | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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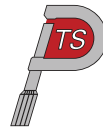
RÄNDELMUTTERN, NIEDRIGE FORM DIN 467



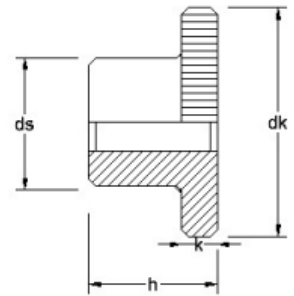
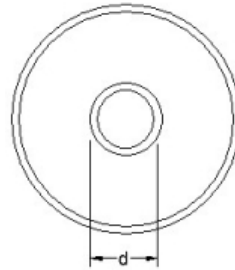
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| dk | 11 | 12 | 16 | 20 | 24 | 30 | 36 | | | | | | | | | | | |
| ds | 5 | 6 | 8 | 10 | 12 | 16 | 20 | | | | | | | | | | | |
| h | 3 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | | | | | | | |
| k | 2.5 | 2.5 | 3.5 | 4.0 | 5.0 | 6.0 | 8.0 | | | | | | | | | | | |
| Pitch | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | | | | | | | | | | | |
| length/dim | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |

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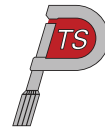
RÄNDELMUTTERN, HOHE FORM DIN 466



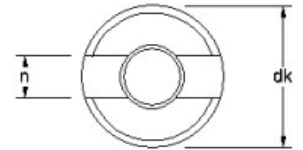
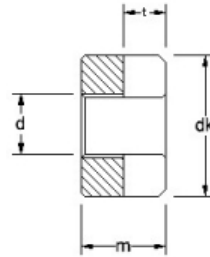
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| dk | 9 | 11 | 12 | 16 | 20 | 24 | 30 | 36 | | | | | | | | | | |
| ds | 4.5 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | | | | | | | | | | |
| h | 5.3 | 6.5 | 7.5 | 9.5 | 11.5 | 15.0 | 18.0 | 23.0 | | | | | | | | | | |
| k | 2.0 | 2.5 | 2.5 | 3.5 | 4.0 | 5.0 | 6.0 | 8.0 | | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | | | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |

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SCHLITZMUTTERN DIN 546

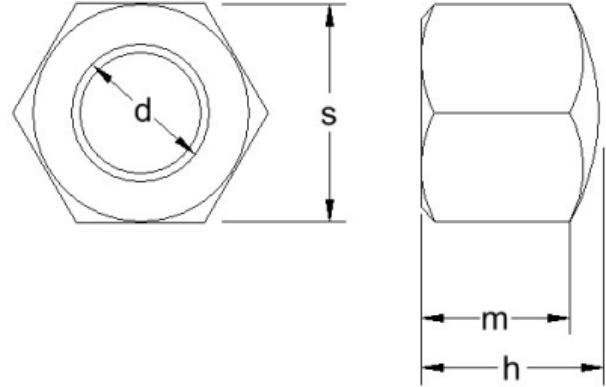


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| dk | 4.5 | 5.5 | 6.0 | 8.0 | 9.0 | 11.0 | 14.0 | 18.0 | 21.0 | 26.0 | | | | | | | | | | |
| m | 2.0 | 2.2 | 2.5 | 3.5 | 4.2 | 5.0 | 6.5 | 8.0 | 10.0 | 12.0 | | | | | | | | | | |
| n | 1.0 | 1.2 | 1.2 | 1.4 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.0 | | | | | | | | | | |
| Pitch | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | | | | | | | | | | |
| t (min) | 0.8 | 0.9 | 1.0 | 1.2 | 1.5 | 2.0 | 2.5 | 3.2 | 3.8 | 3.8 | | | | | | | | | | |
| length/dim | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ▲ | ▲ | | | | | | | | | | |

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SECHSKANT-HUTMUTTERN, NIEDRIGE FORM DIN 917

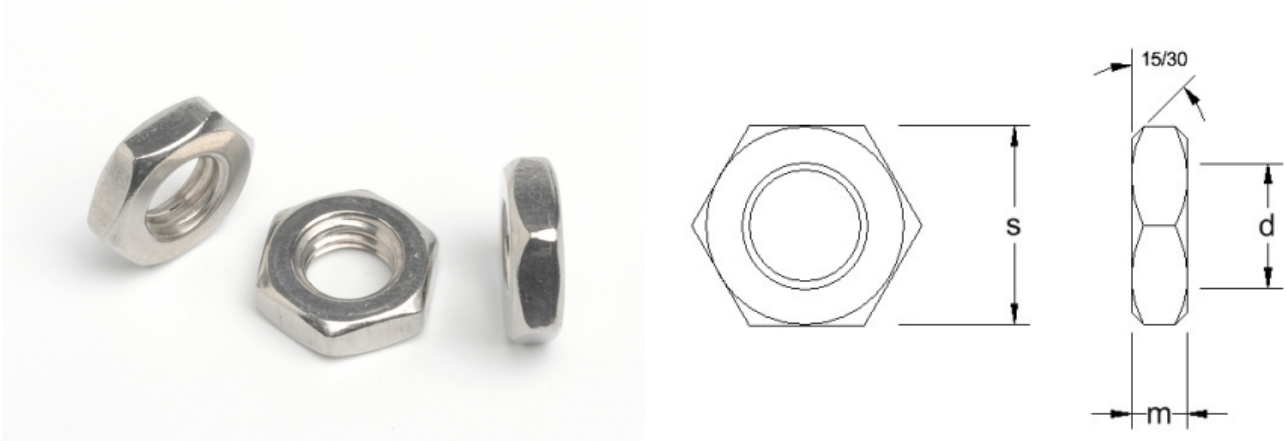


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|--|--|
| h | 4.5 | 5.5 | 7 | 9 | 12 | 14 | 16 | 18 | 20 | 22 | 25 | 28 | 30 | 32 | 34 | | |
| m | 4.0 | 4.4 | 5.2 | 7 | 9.5 | 11 | 13.6 | 15 | 17 | 19 | 21 | 22 | 24 | 26 | 28 | | |
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 2.5 | 3.0 | | |
| s | 5.5 | 7.0 | 8.0 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |

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SECHSKANTMUTTERN, NIEDRIGE FORM DIN 439

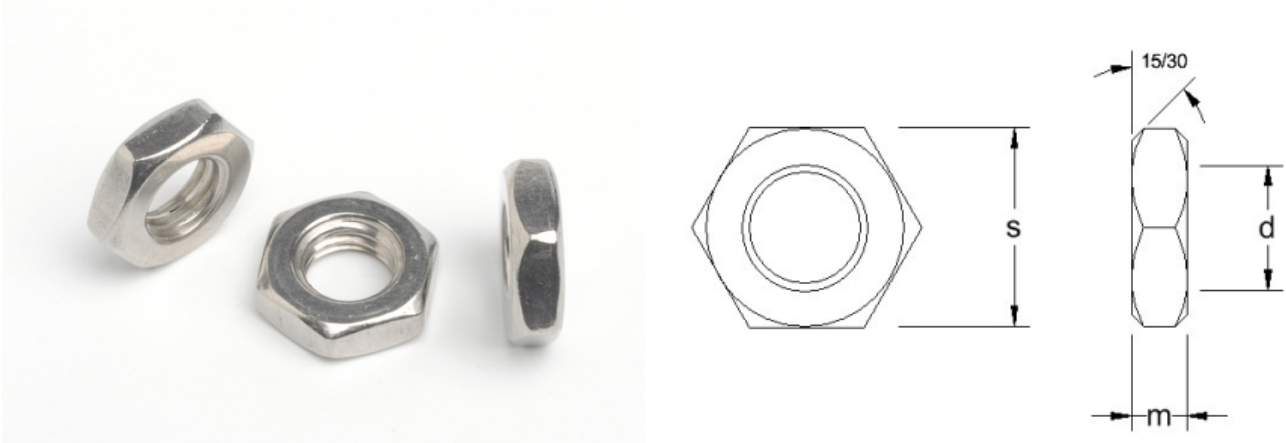


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| m (max) | 1.0 | 1.2 | * | 1.6 | * | 1.8 | 2.0 | 2.2 | 2.7 | 3.2 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10 |
| Pitch | 0.35 | 0.40 | * | 0.45 | 0.45 | 0.50 | 0.60 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 |
| s | 3.2 | 4.0 | * | 5.0 | 5.0 | 5.5 | 6.0 | 7.0 | 8.0 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 |
| length/dim | M1.6 | M2 | M2.3 | M2.5 | M2.6 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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SECHSKANTMUTTERN, NIEDRIGE FORM DIN 439

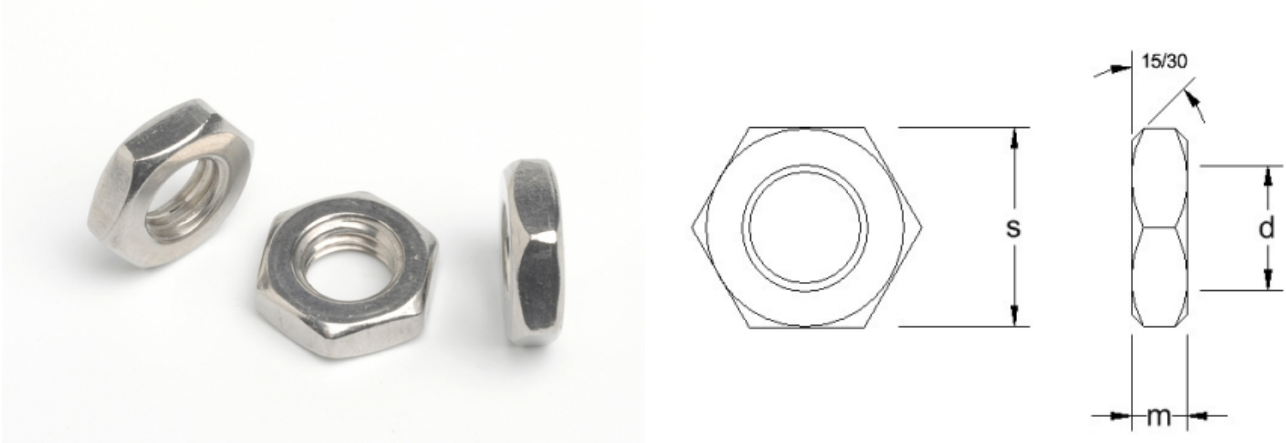


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| m (max) | 11 | 12 | 13.5 | 15 | 16.5 | 18 | | | | | | | | | | | | | |
| Pitch | 2.50 | 3.00 | 3.00 | 3.50 | 3.50 | 4.00 | | | | | | | | | | | | | |
| s | 32 | 36 | 41 | 46 | 50 | 55 | | | | | | | | | | | | | |
| length/dim | M22 | M24 | M27 | M30 | M33 | M36 | | | | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |

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SECHSKANTMUTTERN, NIEDRIGE FORM, LINKSGEWINDE DIN 439

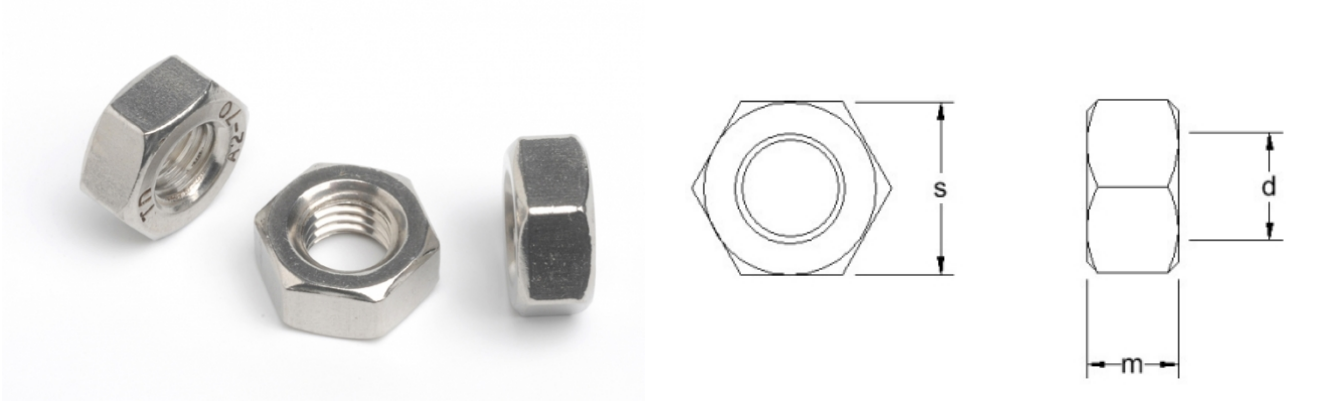


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| m (max) | 3.2 | 4.0 | 5.0 | 6.0 | 8.0 | 10 | 12 | 15 | 18 | | | | | | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 3.00 | 3.00 | 3.50 | 4.00 | | | | | | | | | | |
| s (max) | 10 | 13 | 17 | 19 | 24 | 30 | 36 | 46 | 55 | | | | | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M16 | M20 | M24 | M30 | M36 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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SECHSKANTMUTTERN MIT LINKSGEWINDE DIN 934

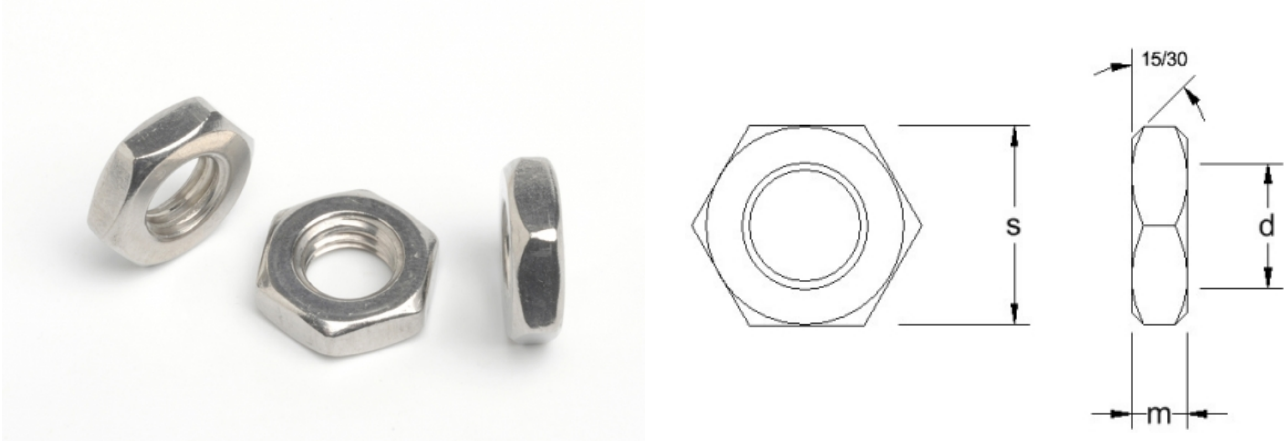


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| m (max) | 2.4 | 3.2 | 4.0 | 5.0 | 6.5 | 8.0 | 10 | 11 | 13 | 15 | 16 | 18 | 19 | 22 | 24 | | |
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | | |
| s (max) | 5.5 | 7.0 | 8.0 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | | |
| | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |

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SECHSKANTMUTTERN, NIEDRIGE FORM, MIT FEINGEWINDE DIN 439

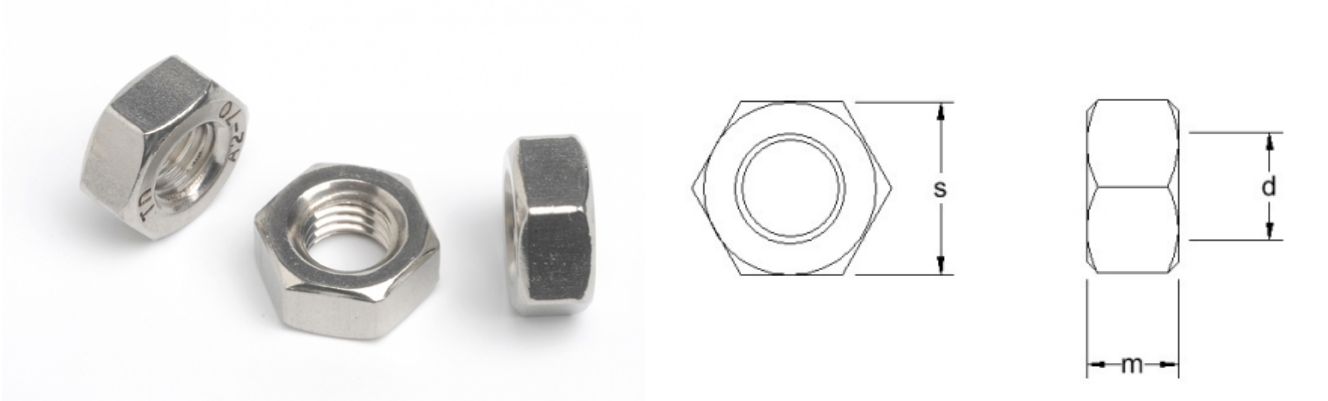


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|--|--|--|--|--|
| m (max) | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10 | 11 | 12 | 13.5 | 15 | 16.5 | | | | | | |
| s (max) | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 34 | 36 | 41 | 46 | 50 | | | | | | |
| length/dim | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | | | | | | |
| 0.75 | ● ▲ | | | | | | | | | | | | | | | | | |
| 1.0 | ● ▲ | ● ▲ | ● ▲ | | ● ▲ | | | | | | | | | | | | | |
| 1.25 | | ● ▲ | ● ▲ | | | | | | | | | | | | | | | |
| 1.5 | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | |
| 2.0 | | | | | | | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | |

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SECHSKANTMUTTERN, MIT FEINGEWINDE DIN 934

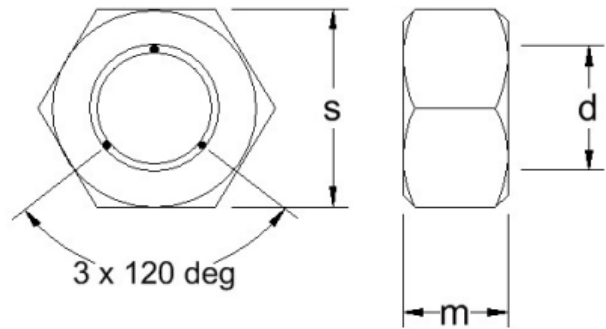


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|
| m (max) | 6.5 | 8.0 | 10 | 11 | 13 | 15 | 16 | 18 | 19 | 22 | 24 | 29 | | | | | | |
| s (max) | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 55 | | | | | | |
| length/dim | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M36 | | | | | | |
| 1.0 | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 1.25 | | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 1.5 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 2.0 | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | | | |
| 3.0 | | | | | | | | | | | | ●▲ | | | | | | |

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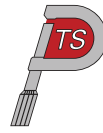
SECHSKANTMUTTERN, SELBSTSICHERND MIT KLEMMTEIL, GANZMETALLMUTTERN DIN 980



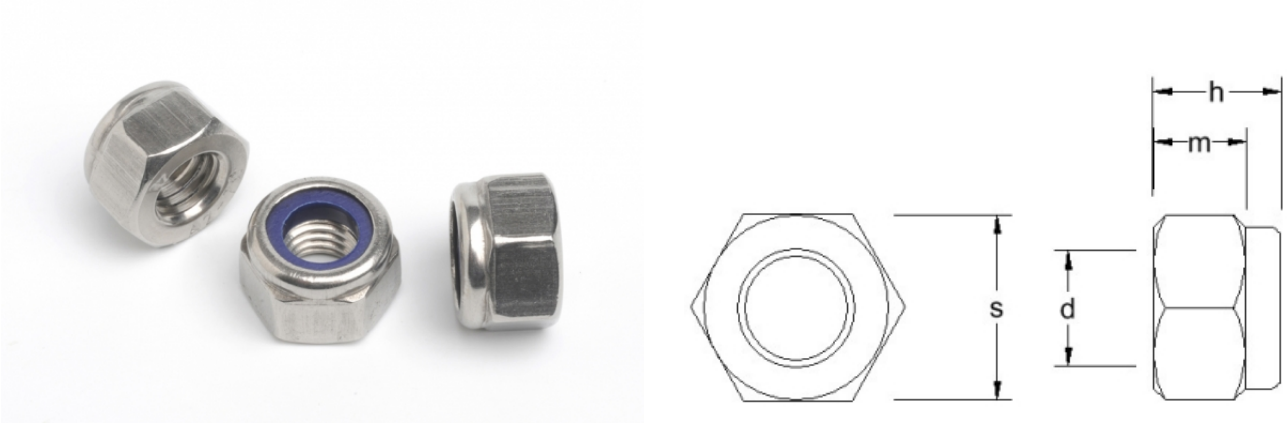
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| m (max) | 2.4 | 3.2 | 4.0 | 5.0 | 5.5 | 6.5 | 8 | 10 | 11 | 13 | 14.5 | 16 | * | * | | | |
| Pitch | 0.50 | 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 | 5.5 | 7.0 | 8.0 | 10 | 11 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 33 | 36 | | | |
| length/dim | M3 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ● | ● | | | |

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SECHSKANTMUTTERN, MIT NICHTMETALLISCHEM KLEMMTEIL, HOHE FORM DIN 982

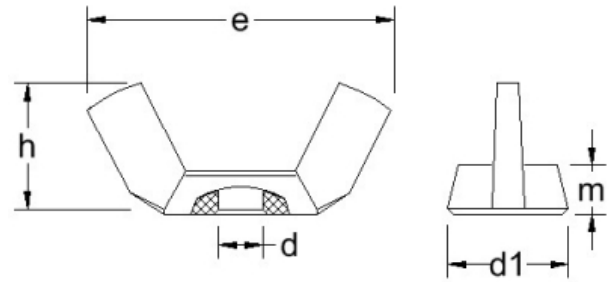


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|-------|------|------|------|------|--|--|--|--|--|--|--|--|
| h (max) | 4.7 | 6.3 | 8.0 | 9.5 | 11.5 | 14 | 16 | 18 | 22 | 28 | | | | | | | | |
| m | 3.6 | 4.4 | 4.9 | 6.44 | 8.04 | 10.37 | 12.1 | 14.1 | 16.9 | 20.2 | | | | | | | | |
| Pitch | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 | | | | | | | | |
| s | 7.0 | 8.0 | 10 | 13 | 17 | 19 | 22 | 24 | 30 | 36 | | | | | | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 | | | | | | | | |
| | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | |

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FLÜGELSCHRAUBEN DIN 315 AF

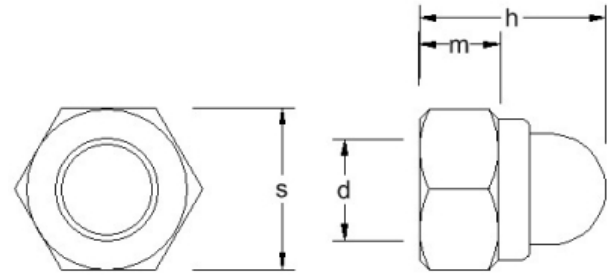


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| d1 | 8.0 | 8.0 | 10.3 | 12.7 | 13.8 | 16.5 | 22.5 | 26.0 | 26.6 | 29.3 | 29.3 | | | | | | |
| e | 17.6 | 17.6 | 22.5 | 27.8 | 30.3 | 36.2 | 49.4 | 52.7 | 58.3 | 66.5 | 66.5 | | | | | | |
| h | 8.6 | 8.6 | 11 | 13.6 | 14.8 | 17.3 | 22.3 | 30.8 | 30.8 | 31.2 | 31.2 | | | | | | |
| m | 2.9 | 2.9 | 4.1 | 5.1 | 5.6 | 6.8 | 9.0 | 10.0 | 10.7 | 12.2 | 12.2 | | | | | | |
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |

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SECHSKANT-HUTMUTTERN, MIT NICHTMETALLISCHEM KLEMMTEIL DIN 986

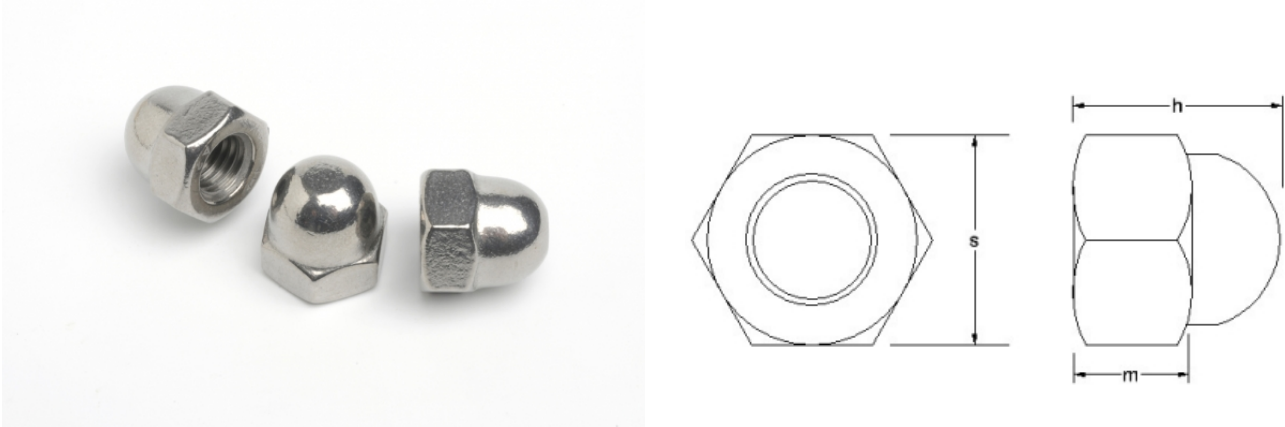


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|-------|------|--|--|--|--|--|--|--|--|--|--|--|
| h | 9.6 | 10.5 | 12 | 14 | 18.1 | 22.5 | 27.5 | | | | | | | | | | | |
| m | * | 4.4 | 4.9 | 6.44 | 8.04 | 10.37 | * | | | | | | | | | | | |
| Pitch | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | | | | | | | | | | | |
| s | 7.0 | 8.0 | 10 | 13 | 17 | 19 | 24 | | | | | | | | | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |

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SECHSKANT-HUTMUTTERN DIN 1587

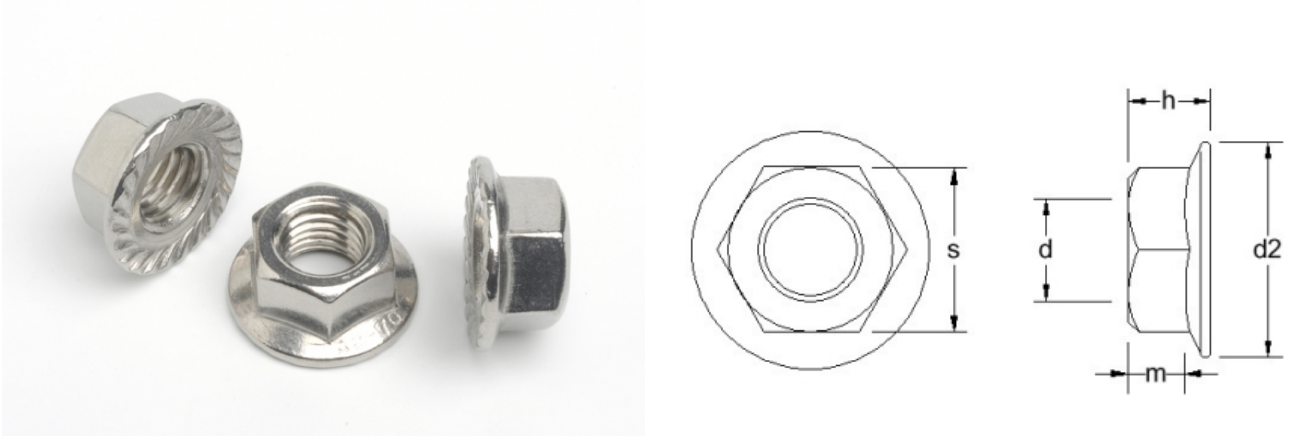


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|-----|------|-----|-----|------|-----|-----|-----|-----|-----|----|--|
| h (max) | 6 | 8 | 10 | 12 | * | 15 | 18 | 22 | 25 | 28 | 32 | 34 | 39 | 42 | 47 | 52 | | |
| m (max) | 2.4 | 3.2 | 4.0 | 5.0 | * | 6.5 | 8.0 | 10 | 11 | 13 | 15 | 16 | 18 | 19 | 22 | 24 | | |
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.00 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.50 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | | |
| s | 5.5 | 7.0 | 8.0 | 10 | * | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | | |
| length/dim | M3 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | |

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SECHSKANTMUTTERN MIT FLANSCH UND SPERRVERZÄHNUNG DIN 6923

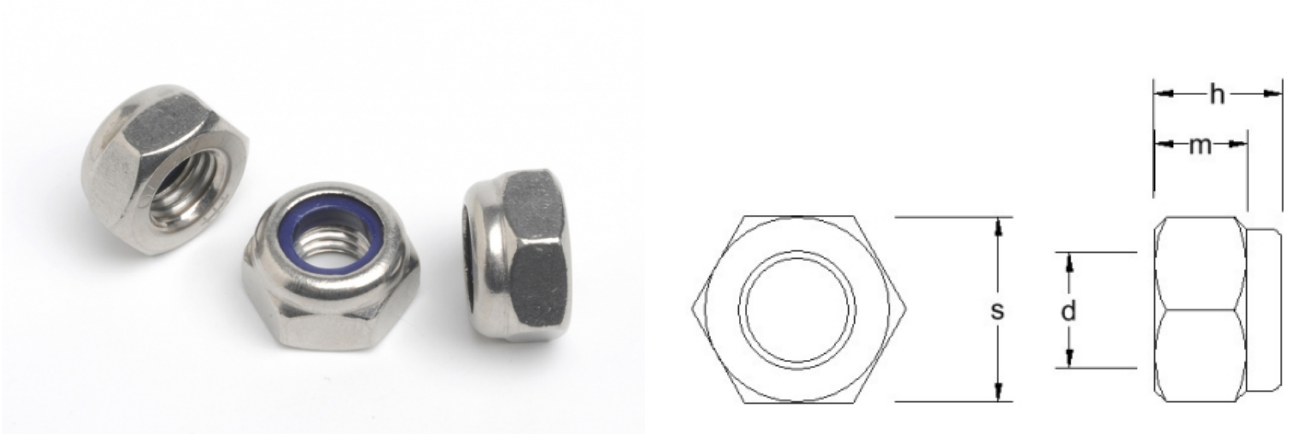


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| d2 (max) | * | 10 | 11.8 | 14.2 | 17.9 | 21.8 | 26 | 34.5 | | | | | | | | | | |
| h (max) | * | 4.65 | 5.0 | 6.0 | 8.0 | 10 | 12 | 16 | | | | | | | | | | |
| m (min) | * | 1.9 | 2.2 | 3.1 | 4.5 | 5.5 | 6.7 | * | | | | | | | | | | |
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | | | | | | | | | | |
| s (max) | * | 7.0 | 8.0 | 10 | 13 | 15 | 18 | 24 | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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SECHSKANTMUTTERN, MIT NICHTMETALLISCHEM KLEMMTEIL DIN 985

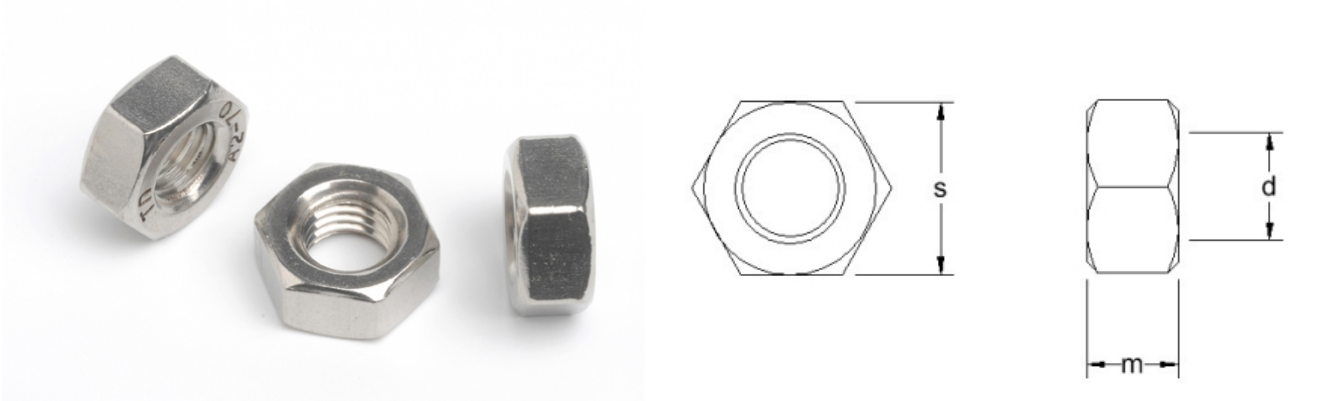


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|--|
| h (max) | 3.0 | 3.8 | 4.0 | * | 5.0 | 5.0 | 6.0 | 8.0 | 10 | 12 | 14 | 16 | 18.5 | 20 | 24 | 30 | | |
| m | 2.0 | 2.0 | 2.4 | * | 2.9 | 3.2 | 4.0 | 5.5 | 6.5 | 8.0 | 9.5 | 10.5 | 13 | 14 | 15 | 19 | | |
| Pitch | 0.40 | 0.45 | 0.50 | 0.60 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | 3.00 | 3.50 | | |
| s | 4.0 | 5.0 | 5.5 | * | 7.0 | 8.0 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 36 | 46 | | |
| length/dim | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M30 | | |
| | ● | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | |

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SECHSKANTMUTTERN DIN 934

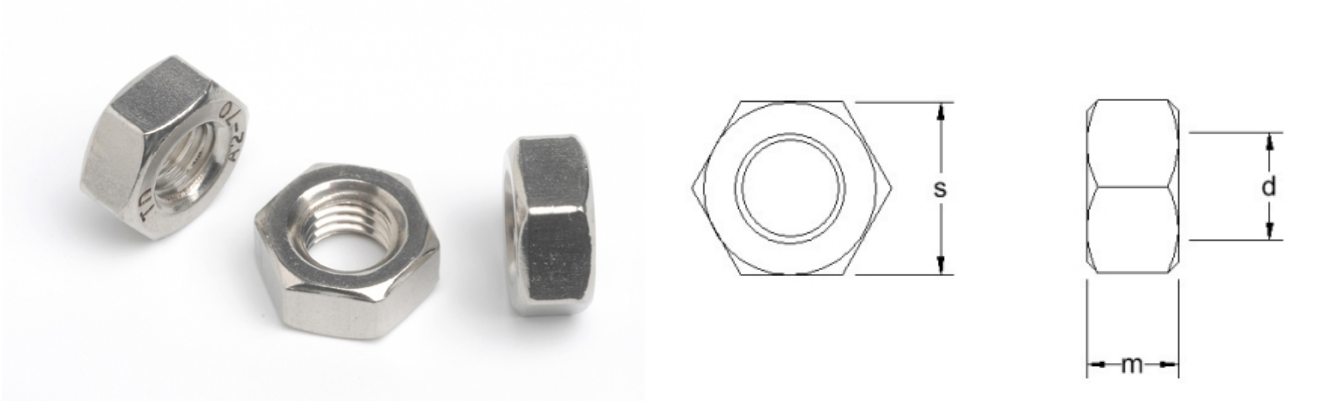


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| m (max) | 0.8 | 1.0 | 1.2 | 1.3 | 1.4 | 1.6 | 1.8 | 2.0 | 2.0 | 2.4 | 2.8 | 3.2 | 4.0 | 5.0 | 5.5 | 6.5 | 8.0 |
| Pitch | 0.25 | 0.25 | 0.30 | 0.35 | 0.35 | 0.40 | 0.45 | 0.45 | 0.45 | 0.50 | 0.60 | 0.70 | 0.80 | 1.00 | 1.00 | 1.25 | 1.50 |
| s | 2.5 | 3.0 | 3.0 | 3.2 | 3.5 | 4.0 | 4.5 | 5.0 | 5.0 | 5.5 | 6.0 | 7.0 | 8.0 | 10 | 11 | 13 | 17 |
| length/dim | M1.0 | M1.2 | M1.4 | M1.6 | M1.7 | M2 | M2.3 | M2.5 | M2.6 | M3 | M3.5 | M4 | M5 | M6 | M7 | M8 | M10 |
| | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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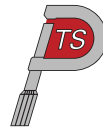
SECHSKANTMUTTERN DIN 934



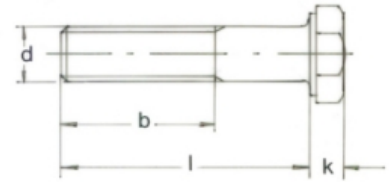
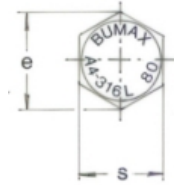
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| m (max) | 10 | 11 | 13 | 15 | 16 | 18 | 19 | 22 | 24 | 26 | 29 | 31 | 34 | 36 | 38 | 42 | * |
| Pitch | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | 3.50 | 4.00 | 4.00 | 4.40 | 4.50 | 5.00 | 5.00 | * |
| s | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | * |
| length/dim | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M39 | M42 | M45 | M48 | M52 | M56 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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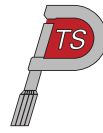
BUMAX SECHSKANTSCHRAUBEN MIT SCHAFT ISO 4014



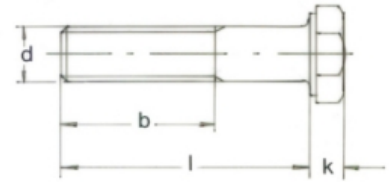
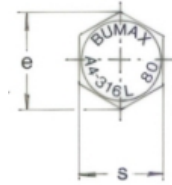
Material Grades: **BUMAX 88:**❖ **BUMAX 109:***

| | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|---|--|--|--|--|
| b (max) | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 54 | 60 | 66 | 78 | | | | | |
| b (max) (L > 125mm) | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 60 | 66 | 72 | 84 | | | | | |
| k (min) | 3.76 | 5.06 | 6.11 | 7.21 | 8.51 | 9.71 | 11.15 | 12.15 | 14.65 | 16.65 | 18.28 | 22.08 | | | | | |
| Pitch | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 4.0 | | | | | |
| s (max) | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 36 | 41 | 46 | 55 | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M27 | M30 | M36 | | | | | |
| 30 | ❖* | | | | | | | | | | | | | | | | |
| 35 | ❖* | ❖* | | * | | | | | | | | | | | | | |
| 40 | ❖* | ❖* | ❖ | ❖* | | | | | | | | | | | | | |
| 42 | ❖ | | | | | | | | | | | | | | | | |
| 45 | ❖* | ❖* | ❖* | ❖* | | | | | | | | | | | | | |
| 50 | ❖* | ❖* | ❖* | ❖* | | ❖ | | | | | | | | | | | |
| 55 | ❖* | ❖* | ❖* | ❖* | | ❖ | | | | | | | | | | | |
| 60 | ❖* | ❖* | ❖* | ❖* | | ❖* | | ❖ | | | | | | | | | |
| 65 | ❖* | ❖* | ❖* | ❖* | | ❖* | | ❖ | | | | | | | | | |
| 70 | ❖* | ❖* | ❖* | ❖* | | ❖* | ❖ | ❖ | | | | | | | | | |
| 75 | * | ❖ | ❖ | ❖ | | ❖* | | ❖ | ❖ | | | ❖ | | | | | |
| 80 | ❖* | ❖* | ❖* | ❖* | ❖* | ❖* | ❖ | ❖ | ❖ | | | ❖ | | | | | |
| 85 | | | ❖ | | | | | | | | | | | | | | |
| 90 | ❖ | ❖ | ❖* | ❖* | ❖ | ❖* | ❖ | ❖ | ❖ | | | ❖ | | | | | |
| 100 | ❖ | ❖ | ❖* | ❖* | ❖ | ❖* | ❖ | ❖ | ❖ | ❖ | ❖ | ❖ | ❖ | | | | |

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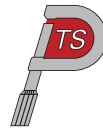
BUMAX SECHSKANTSCHRAUBEN MIT SCHAFT ISO 4014



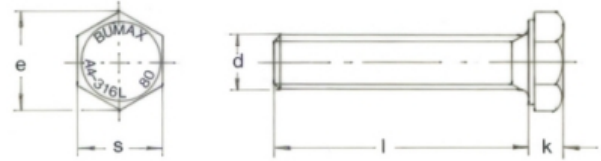
Material Grades: **BUMAX 88:** ♦ **BUMAX 109:** *

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|---|
| b (max) | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 54 | 60 | 66 | 78 | | | | | | |
| b (max) (L > 125mm) | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 60 | 66 | 72 | 84 | | | | | | |
| k (min) | 3.76 | 5.06 | 6.11 | 7.21 | 8.51 | 9.71 | 11.15 | 12.15 | 14.65 | 16.65 | 18.28 | 22.08 | | | | | | |
| Pitch | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 4.0 | | | | | | |
| s (max) | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 36 | 41 | 46 | 55 | | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M27 | M30 | M36 | | | | | | |
| 110 | | | ♦ | ♦ | | ♦* | | ♦ | ♦ | ♦ | ♦ | | | | | | | |
| 120 | | | ♦ | ♦* | ♦ | ♦* | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | |
| 130 | | | ♦ | ♦ | | ♦ | | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | |
| 140 | | | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | |
| 150 | | | ♦ | ♦ | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | |
| 160 | | | ♦ | ♦ | | ♦ | | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | |
| 170 | | | | | | ♦ | | | ♦ | | | | | | | | | |
| 180 | | | | ♦ | | ♦ | | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | |
| 200 | | | | | | ♦ | | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | |
| 210 | | | | | | | | | | | | | | | | | | ♦ |
| 220 | | | | | | | | | ♦ | | | | | | | | | |
| 235 | | | | | | | | | | | | | | | | | | ♦ |
| 310 | | | | | | | | | | ♦ | | | | | | | | |
| 340 | | | | | | | | | | ♦ | | | | | | | | |

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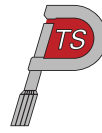
BUMAX SECHSKANTSCHRAUBEN MIT VOLLGEWINDE ISO 4017



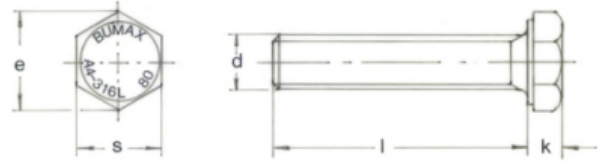
Material Grades: ♦ BUMAX 88:♦ * BUMAX 109:*

| e | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | | | |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|--|
| k (max) | 2.925 | 3.65 | 4.15 | 5.45 | 6.58 | 7.68 | 8.98 | 10.18 | 11.715 | 12.715 | 15.215 | 17.35 | 19.12 | 22.92 | | | |
| Pitch | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 4.0 | | | |
| s (max) | 7 | 8 | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 36 | 41 | 46 | 55 | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M27 | M30 | M36 | | | |
| 6 | ♦ | | | | | | | | | | | | | | | | |
| 8 | ♦ | | | | | | | | | | | | | | | | |
| 10 | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | | |
| 12 | ♦ | ♦ | ♦* | ♦ | ♦ | | | | | | | | | | | | |
| 14 | | ♦ | ♦ | ♦ | * | | | | | | | | | | | | |
| 16 | ♦* | ♦ | ♦* | ♦ | ♦* | | | | | | | | | | | | |
| 20 | ♦* | ♦ | ♦* | ♦* | ♦* | ♦* | | | | | | | | | | | |
| 22 | | | ♦* | ♦* | | | | | | | | | | | | | |
| 25 | ♦ | ♦ | ♦* | ♦* | ♦* | ♦* | | ♦ | | | | | | | | | |
| 30 | ♦ | ♦ | ♦* | ♦* | ♦* | ♦* | ♦ | ♦* | | ♦ | | | | | | | |
| 32 | | | | | | ♦ | | | | | | | | | | | |
| 35 | | ♦ | ♦ | ♦* | ♦* | ♦* | ♦ | ♦* | | ♦ | | | | | | | |
| 40 | | ♦ | ♦ | ♦ | ♦* | ♦* | ♦ | ♦* | ♦ | ♦ | ♦ | | | | | | |
| 45 | | ♦ | ♦ | ♦ | ♦ | ♦ | | ♦* | | ♦ | ♦ | | | | | | |
| 50 | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦* | ♦ | ♦ | ♦ | ♦ | | | | | |
| 55 | | | ♦ | ♦ | ♦ | ♦ | | ♦* | | ♦ | ♦ | | | | | | |

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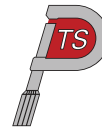
BUMAX SECHSKANTSCHRAUBEN MIT VOLLGEWINDE ISO 4017



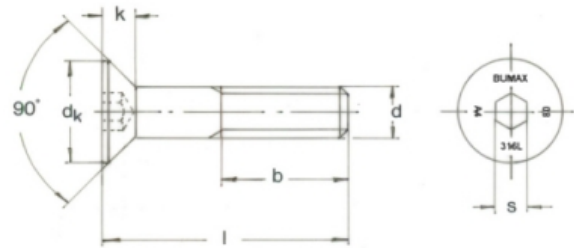
Material Grades: **BUMAX 88:** ♦ **BUMAX 109:** *

| e | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | | | |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|--|
| k (max) | 2.925 | 3.65 | 4.15 | 5.45 | 6.58 | 7.68 | 8.98 | 10.18 | 11.715 | 12.715 | 15.215 | 17.35 | 19.12 | 22.92 | | | |
| Pitch | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 4.0 | | | |
| s (max) | 7 | 8 | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 36 | 41 | 46 | 55 | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M27 | M30 | M36 | | | |
| 60 | | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦* | ♦ | ♦ | ♦ | ♦ | ♦ | | | | |
| 65 | | | * | * | ♦ | ♦ | | | | ♦ | ♦ | | | | | | |
| 70 | | | ♦ | ♦* | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | |
| 75 | | | | | | | | | | ♦ | ♦ | | | | | | |
| 80 | | | ♦ | ♦ | ♦ | ♦ | | ♦* | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | |
| 90 | | | | | ♦ | ♦ | | ♦* | | ♦ | ♦ | ♦ | ♦ | ♦ | | | |
| 100 | | | | | ♦ | ♦ | | ♦ | | ♦ | ♦ | ♦ | ♦ | ♦ | | | |
| 110 | | | | | ♦ | | | | | | ♦ | | | | | | |
| 120 | | | | | ♦ | | | ♦ | | | ♦ | ♦ | ♦ | ♦ | | | |
| 130 | | | | | ♦ | | | | | ♦ | | | ♦ | ♦ | | | |
| 140 | | | | | | | | | | | ♦ | ♦ | ♦ | ♦ | | | |
| 150 | | | | | | | | | | ♦ | | ♦ | | ♦ | | | |

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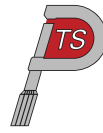
BUMAX SENKSCHRAUBEN MIT INNENSECHSKANT ISO 10642



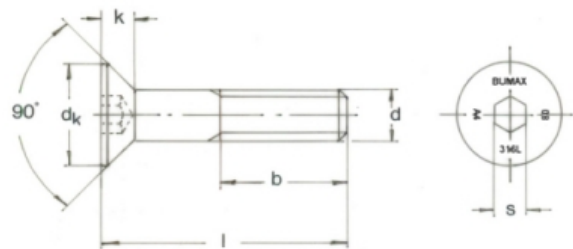
Material Grades: **BUMAX 88** ♦

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 6.72 | 8.96 | 11.20 | 13.44 | 17.92 | 22.40 | 26.88 | 30.88 | | | | | | | | | | |
| k (max) | 1.86 | 2.48 | 3.1 | 3.72 | 4.96 | 6.2 | 7.44 | 8.8 | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | | | | |
| s | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | | | | | | |
| t (min) | 1.1 | 1.5 | 1.9 | 2.2 | 3.0 | 3.6 | 4.3 | 4.8 | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | |
| 6 | ♦ | | | | | | | | | | | | | | | | | |
| 8 | ♦ | | | | | | | | | | | | | | | | | |
| 10 | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | | | |
| 12 | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | | |
| 14 | | | | | ♦ | | | | | | | | | | | | | |
| 16 | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | | |
| 20 | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | |
| 25 | | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | |
| 30 | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | |
| 35 | | | | | ♦ | ♦ | | | | | | | | | | | | |
| 40 | | | | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | |
| 45 | | | | | | ♦ | ♦ | | | | | | | | | | | |
| 50 | | | | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | |
| 60 | | | | ♦ | ♦ | | ♦ | ♦ | | | | | | | | | | |
| 70 | | | | | ♦ | | ♦ | ♦ | | | | | | | | | | |

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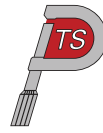
BUMAX SENKSCHRAUBEN MIT INNENSECHSKANT ISO 10642



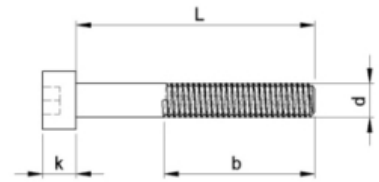
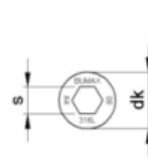
Material Grades: **BUMAX 88** ♦

| | | | | | | | | | | | | | | | | | | |
|------------|------|------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 6.72 | 8.96 | 11.20 | 13.44 | 17.92 | 22.40 | 26.88 | 30.88 | | | | | | | | | | |
| k (max) | 1.86 | 2.48 | 3.1 | 3.72 | 4.96 | 6.2 | 7.44 | 8.8 | | | | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | | | | | | | | | | |
| s | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | | | | | | |
| t (min) | 1.1 | 1.5 | 1.9 | 2.2 | 3.0 | 3.6 | 4.3 | 4.8 | | | | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | | | | | | | | | | |
| 80 | | | | | | | | ♦ | | | | | | | | | | |
| 100 | | | | | | | | ♦ | | | | | | | | | | |

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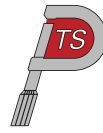
BUMAX ZYLINDERSCHRAUBEN MIT INNENSECHSKANT ISO 4762



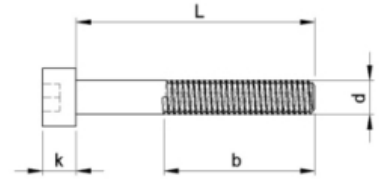
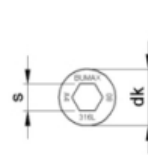
Material Grades: **BUMAX 88:**❖ **BUMAX 109:***❖

| | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|--|--|---|
| b (max) | 18 | 20 | 22 | 24 | 28 | 32 | 36 | 44 | 52 | 60 | | | | | | | |
| dk | 5.5 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 24 | 30 | 36 | | | | | | | |
| k (max) | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | | | | | | | |
| s | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 14 | 17 | 19 | | | | | | | |
| t (min) | 1.3 | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | |
| 65 | | | | ❖* | ❖* | ❖* | ❖ | ❖ | | ❖ | | | | | | | |
| 160 | | | | | | | | | | ❖ | | | | | | | |
| 40 | | ❖* | ❖ | ❖* | ❖* | ❖* | ❖* | ❖* | ❖ | | | | | | | | |
| 75 | | | | ❖* | ❖* | ❖* | ❖* | | ❖ | | | | | | | | |
| 6 | ❖ | ❖ | | | | | | | | | | | | | | | |
| 180 | | | | | | | | | | ❖ | | | | | | | |
| 45 | | ❖ | ❖ | ❖* | ❖* | ❖* | ❖* | ❖ | ❖ | | | | | | | | |
| 90 | | | | ❖ | ❖* | ❖* | ❖* | ❖* | ❖ | ❖ | | | | | | | |
| 8 | ❖ | ❖ | | | | | | | | | | | | | | | |
| 190 | | | | | | | | | | ❖ | | | | | | | |
| 50 | | ❖ | ❖ | ❖* | ❖* | ❖* | ❖* | ❖* | ❖ | ❖ | | | | | | | |
| 120 | | | | | | | ❖ | ❖* | ❖ | ❖ | | | | | | | |
| 10 | ❖ | ❖ | ❖ | | | | | | | | | | | | | | |
| 170 | | | | | | | | | | | | | | | | | ❖ |

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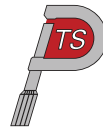
BUMAX ZYLINDERSCHRAUBEN MIT INNENSECHSKANT ISO 4762



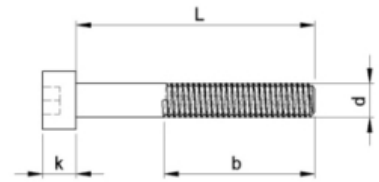
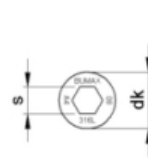
Material Grades: **BUMAX 88:**◆ **BUMAX 109:***

| | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|--|--|--|
| b (max) | 18 | 20 | 22 | 24 | 28 | 32 | 36 | 44 | 52 | 60 | | | | | | | |
| dk | 5.5 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 24 | 30 | 36 | | | | | | | |
| k (max) | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | | | | | | | |
| s | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 14 | 17 | 19 | | | | | | | |
| t (min) | 1.3 | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | | |
| 55 | | ◆* | ◆ | ◆* | ◆* | ◆ | ◆* | ◆ | | | | | | | | | |
| 110 | | | | | | * | ◆* | ◆ | ◆ | ◆ | | | | | | | |
| 12 | ◆ | ◆* | ◆ | ◆* | | | | | | | | | | | | | |
| 80 | | ◆ | | ◆* | ◆* | ◆* | ◆* | ◆* | ◆ | ◆ | | | | | | | |
| 115 | | | | | | | ◆ | | | | | | | | | | |
| 16 | ◆ | ◆* | ◆ | ◆* | ◆* | ◆ | | | | | | | | | | | |
| 60 | | | ◆ | ◆* | ◆* | ◆* | ◆* | ◆ | ◆ | ◆ | | | | | | | |
| 125 | | | | | | | ◆ | | | | | | | | | | |
| 20 | ◆ | ◆* | ◆ | ◆* | ◆* | ◆* | ◆ | | | | | | | | | | |
| 70 | | | ◆ | ◆* | ◆* | ◆* | ◆* | ◆ | ◆ | ◆ | | | | | | | |
| 130 | | | | | | | ◆ | ◆* | ◆ | ◆ | | | | | | | |
| 25 | ◆ | ◆ | ◆ | ◆* | ◆* | ◆* | ◆* | | | | | | | | | | |
| 73 | | | ◆ | | | | | | | | | | | | | | |
| 140 | | | | | | | ◆ | ◆ | ◆* | ◆ | | | | | | | |

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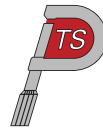
BUMAX ZYLINDERSCHRAUBEN MIT INNENSECHSKANT ISO 4762



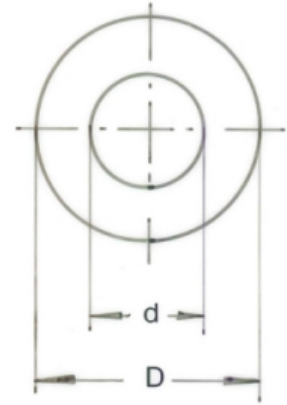
Material Grades: **BUMAX 88:**❖ **BUMAX 109:***

| | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--|--|--|--|--|--|
| b (max) | 18 | 20 | 22 | 24 | 28 | 32 | 36 | 44 | 52 | 60 | | | | | | |
| dk | 5.5 | 7.0 | 8.5 | 10 | 13 | 16 | 18 | 24 | 30 | 36 | | | | | | |
| k (max) | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | | | | | | |
| Pitch | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | | | | | | |
| s | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 14 | 17 | 19 | | | | | | |
| t (min) | 1.3 | 2.0 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | | | | | | |
| length/dim | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 | | | | | | |
| 30 | ❖ | ❖ | ❖ | ❖* | ❖* | ❖* | ❖* | ❖ | ❖ | | | | | | | |
| 100 | | | ❖ | ❖ | ❖ | ❖* | ❖* | ❖* | ❖ | ❖ | | | | | | |
| 150 | | | | | | | ❖ | ❖ | ❖ | ❖ | | | | | | |
| 35 | ❖ | ❖ | ❖ | ❖* | ❖* | ❖* | * | ❖ | | | | | | | | |
| 22 | | | | ❖ | ❖ | * | | | | | | | | | | |
| 135 | | | | | | | | ❖ | | | | | | | | |
| 14 | | ❖ | | ❖* | | | | | | | | | | | | |

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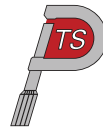
BUMAX UNTERLEGSCHIEBEN ISO 7089 200HV



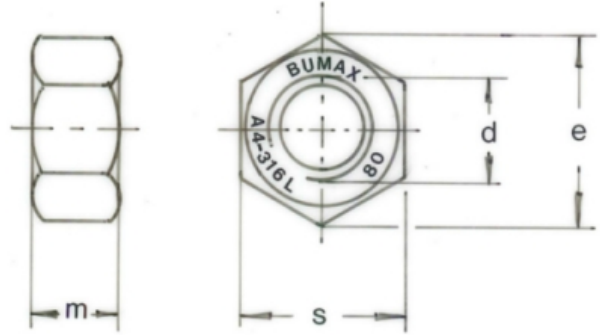
Material Grades: **BUMAX 88:**❖ **BUMAX 109:***

| | | | | | | | | | | | | | | | | | |
|------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| d | 9 | 10 | 6.4 | 16 | 20 | 24 | | 17 | 37 | 39 | 44 | 28 | 66 | | | | |
| t | 0.8 | 1 | 1.6 | 1.6 | 2 | 2.5 | | 3 | 3 | 3 | 4 | 4 | 5 | | | | |
| length/dim | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M22 | M24 | M27 | M36 | | | | |
| | ❖* | ❖* | ❖* | ❖* | ❖* | ❖* | ❖* | ❖* | ❖* | ❖ | ❖* | ❖ | ❖ | | | | |

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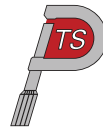
BUMAX SECHSKANTMUTTERN ISO 4032



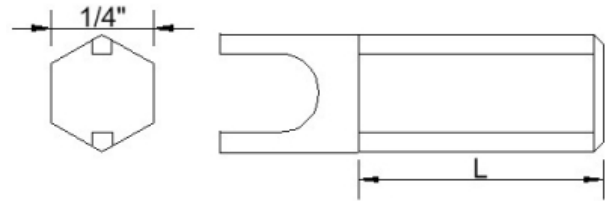
Material Grades: BUMAX 88:❖ BUMAX 109:*

| | | | | | | | | | | | | | | | | | |
|------------|------|-------|------|------|-------|------|-------|------|------|-------|------|-------|--|--|--|--|--|
| e | 11.5 | 14.95 | 18.4 | 20.7 | 24.15 | 27.6 | 31.05 | 34.5 | 41.4 | 47.15 | 52.9 | 63.25 | | | | | |
| m (max) | 5.2 | 6.8 | 8.4 | 10.8 | 12.8 | 14.8 | 15.8 | 18 | 21.5 | 23.8 | 25.6 | 31 | | | | | |
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | 4.00 | | | | | |
| s (max) | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 36 | 41 | 46 | 55 | | | | | |
| length/dim | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M27 | M30 | M36 | | | | | |
| | ❖* | ❖* | ❖* | ❖* | ❖* | ❖* | ❖ | ❖ | ❖ | ❖ | ❖ | ❖ | | | | | |

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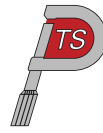
BITS - 2LOCH, 1/4" SECHSKANT



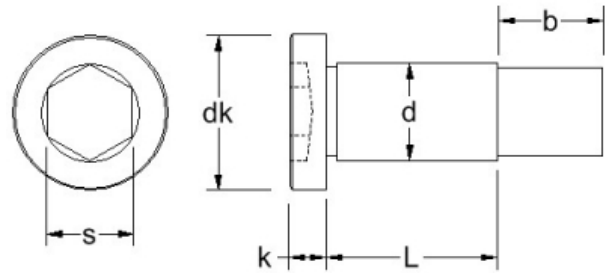
Material Grades:

| | | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| A/F | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | | | | | | | | | | | | |
| L | 25 | 25 | 25 | 25 | | 25 | | | | | | | | | | | | |
| length/dim | TH3 | TH4 | TH5 | TH6 | TH7 | TH8 | | | | | | | | | | | | |

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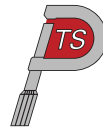
ULTRA LOW HEAD SOCKET SHOULDER SCREWS



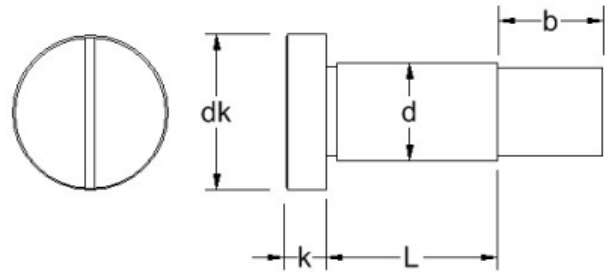
Material Grades: **A4:▲**

| b | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | | | | | | | | | | | | | | |
|----------|------|------|------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 3/16 | 1/4 | 9/32 | 5/16 | 3/8 | | | | | | | | | | | | | | |
| k | 1/32 | 3/64 | 3/64 | 3/64 | 1/16 | | | | | | | | | | | | | | |
| s | 5/64 | 5/64 | 3/32 | 3/32 | 1/8 | | | | | | | | | | | | | | |
| Thread | 2-56 | 4-40 | 6-32 | 8-32 | 10-32 | | | | | | | | | | | | | | |
| length/d | 3/32 | 1/8 | 5/32 | 3/16 | 1/4 | | | | | | | | | | | | | | |
| 1/8 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | | |
| 3/16 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | | |
| 1/4 | ▲ | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 5/16 | | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 3/8 | ▲ | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 1/2 | | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 5/8 | | | | ▲ | ▲ | | | | | | | | | | | | | | |
| 3/4 | | | | ▲ | ▲ | | | | | | | | | | | | | | |
| 1 | | | | ▲ | ▲ | | | | | | | | | | | | | | |

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ULTRA LOW HEAD SLOTTED SHOULDER SCREWS



Material Grades: **A4:▲**

| b | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | | | | | | | | | | | | | |
|----------|------|------|------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 3/16 | 1/4 | 9/32 | 5/16 | 3/8 | | | | | | | | | | | | | |
| k | 1/32 | 3/64 | 3/64 | 3/64 | 1/16 | | | | | | | | | | | | | |
| Thread | 2-56 | 4-40 | 6-32 | 8-32 | 10-32 | | | | | | | | | | | | | |
| length/d | 3/32 | 1/8 | 5/32 | 3/16 | 1/4 | | | | | | | | | | | | | |
| 1/8 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 3/16 | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | | |
| 1/4 | ▲ | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | |
| 5/16 | ▲ | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | |
| 3/8 | ▲ | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | |
| 1/2 | | ▲ | ▲ | ▲ | ▲ | | | | | | | | | | | | | |
| 5/8 | | | | ▲ | ▲ | | | | | | | | | | | | | |
| 3/4 | | | | ▲ | ▲ | | | | | | | | | | | | | |
| 1 | | | | ▲ | ▲ | | | | | | | | | | | | | |

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SECHSKANTMUTTERN ANSI B18.6.3

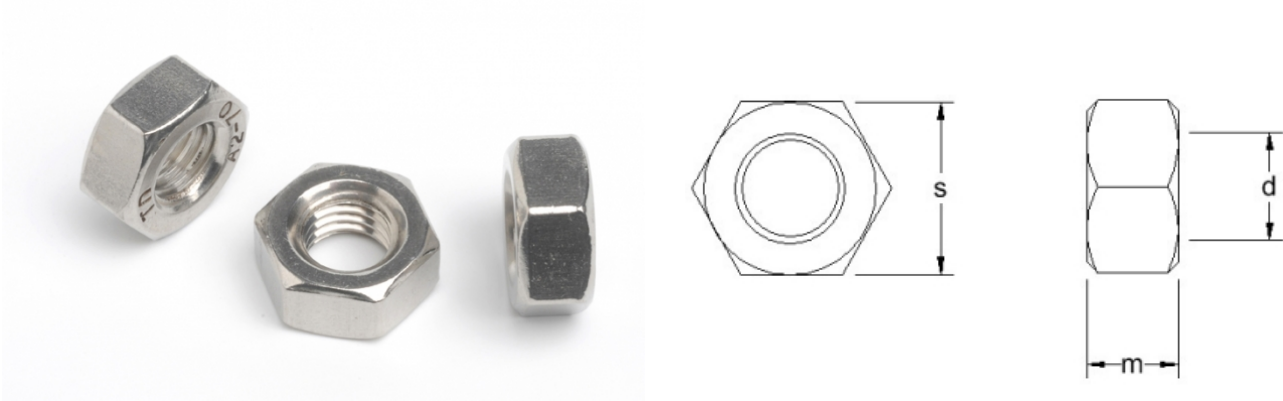


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| m (max) | 0.050 | 0.050 | 0.050 | 0.066 | 0.066 | 0.066 | 0.066 | 0.098 | 0.098 | 0.114 | 0.114 | 0.114 | 0.114 | 0.130 | 0.130 | 0.130 | 0.130 |
| s (max) | 0.156 | 0.156 | 0.156 | 0.188 | 0.188 | 0.188 | 0.188 | 0.250 | 0.250 | 0.312 | 0.312 | 0.312 | 0.312 | 0.344 | 0.344 | 0.375 | 0.375 |
| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 2-64 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 5-44 | 6-32 | 6-40 | 8-32 | 8-36 | 10-24 | 10-32 |
| | ● | ● | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ |

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SECHSKANTMUTTERN ANSI B18.6.3

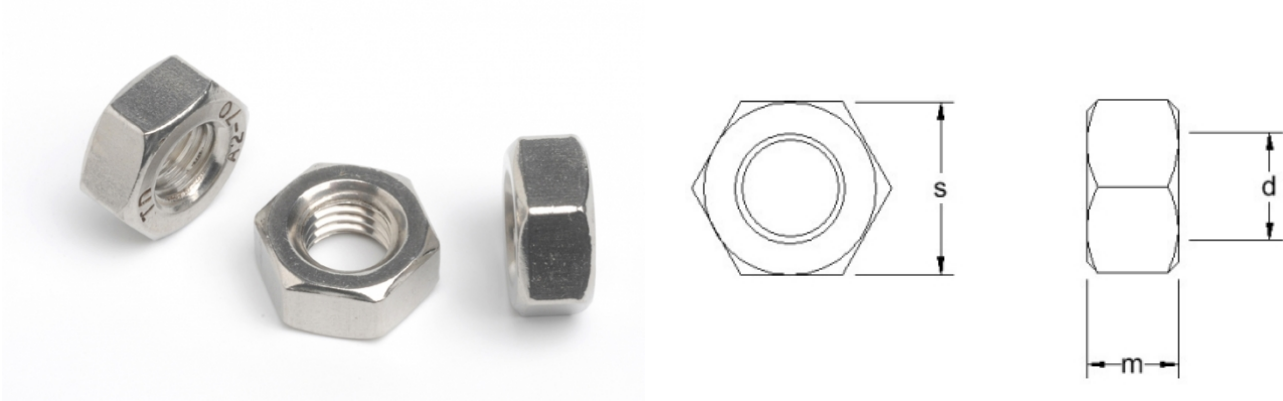


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|--------|
| m (max) | 0.161 | 0.161 | 0.226 | 0.226 | 0.273 | 0.273 | 0.337 | 0.337 | 0.385 | 0.385 | 0.448 | 0.448 | 0.496 | 0.496 | 0.559 | 0.559 | 0.665 |
| s (max) | 0.438 | 0.438 | 0.438 | 0.438 | 0.500 | 0.500 | 0.562 | 0.562 | 0.688 | 0.688 | 0.750 | 0.750 | 0.875 | 0.875 | 0.938 | 0.938 | 1.125 |
| length/dim | 12-24 | 12-28 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 9/16-12 | 9/16-18 | 5/8-11 | 5/8-18 | 3/4-10 |
| | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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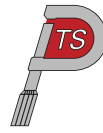
SECHSKANTMUTTERN ANSI B18.6.3



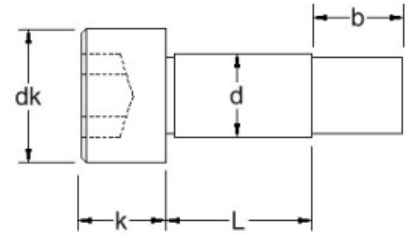
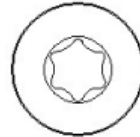
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|--------|-------|--------|-------|-------|---------|----------|---------|----------|---------|----------|---------|----------|---------|---------|---------|-------|
| m (max) | 0.665 | 0.776 | 0.776 | 0.887 | 0.887 | 0.999 | 0.999 | 1.094 | 1.094 | 1.206 | 1.206 | 1.317 | 1.317 | 1.500 | 1.500 | 1.718 | 1.718 |
| s (max) | 1.125 | 1.312 | 1.312 | 1.500 | 1.500 | 1.688 | 1.688 | 1.875 | 1.875 | 2.062 | 2.062 | 2.250 | 2.250 | 2.625 | 2.625 | 3.000 | 3.000 |
| length/dim | 3/4-16 | 7/8-9 | 7/8-14 | 1-8 | 1-12 | 1.1/8-7 | 1.1/8-12 | 1.1/4-7 | 1.1/4-12 | 1.3/8-6 | 1.3/8-12 | 1.1/2-6 | 1.1/2-12 | 1.3/4-5 | 1.3/4-8 | 2-4.1/2 | 2-8 |
| | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ |

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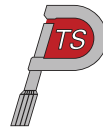
TX SHOULDER SCREWS



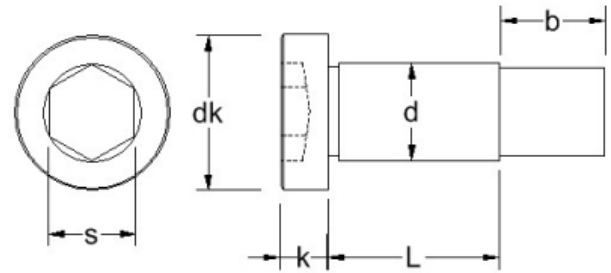
Material Grades: A2: ● A4: ▲

| b | 5/32 | 3/16 | 1/4 | | | | | | | | | | | | | | | | |
|----------|------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk | 1/4 | 5/16 | 3/8 | | | | | | | | | | | | | | | | |
| k | 1/8 | 5/32 | 3/16 | | | | | | | | | | | | | | | | |
| T Drive | T10 | T25 | T30 | | | | | | | | | | | | | | | | |
| Thread | 4-40 | 8-32 | 10-32 | | | | | | | | | | | | | | | | |
| length/d | 1/8 | 3/16 | 1/4 | | | | | | | | | | | | | | | | |
| 1/8 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 3/16 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 5/16 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 5/8 | | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 3/4 | | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 1 | | ●▲ | ●▲ | | | | | | | | | | | | | | | | |

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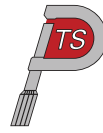
LOW HEAD SOCKET SHOULDER SCREWS



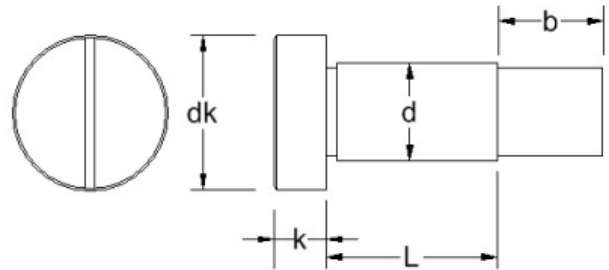
Material Grades: A2: ● A4: ▲

| | b | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | 7/16 | 1/2 | | | | | | | | | | |
|----------|------|------|------|------|-------|--------|---------|-----|--|--|--|--|--|--|--|--|--|--|
| b | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | 7/16 | 1/2 | | | | | | | | | | | |
| dk | 3/16 | 1/4 | 9/32 | 5/16 | 3/8 | 7/16 | 9/16 | | | | | | | | | | | |
| k | 1/16 | 3/32 | 5/64 | 7/64 | 1/8 | 1/8 | 3/32 | | | | | | | | | | | |
| s | 5/64 | 5/64 | 3/32 | 3/32 | 1/8 | 5/32 | 3/16 | | | | | | | | | | | |
| Thread | 2-56 | 4-40 | 6-32 | 8-32 | 10-32 | 1/4-20 | 5/16-18 | | | | | | | | | | | |
| length/d | 3/32 | 1/8 | 5/32 | 3/16 | 1/4 | 5/16 | 3/8 | | | | | | | | | | | |
| 1/16 | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 3/32 | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 1/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 5/32 | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 3/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1/2 | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/8 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/4 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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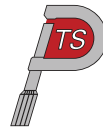
LOW HEAD SLOTTED SHOULDER SCREWS



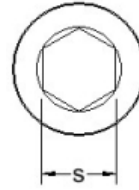
Material Grades: A2: ● A4: ▲

| | b | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | 7/16 | 1/2 | | | | | | | | | |
|----------|------|------|------|------|-------|--------|---------|-----|--|--|--|--|--|--|--|--|--|
| b | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | 7/16 | 1/2 | | | | | | | | | | |
| dk | 3/16 | 1/4 | 9/32 | 5/16 | 3/8 | 7/16 | 9/16 | | | | | | | | | | |
| k | 1/16 | 3/32 | 5/64 | 7/64 | 1/8 | 1/8 | 3/32 | | | | | | | | | | |
| Thread | 2-56 | 4-40 | 6-32 | 8-32 | 10-32 | 1/4-20 | 5/16-18 | | | | | | | | | | |
| length/d | 3/32 | 1/8 | 5/32 | 3/16 | 1/4 | 5/16 | 3/8 | | | | | | | | | | |
| 1/16 | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 3/32 | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 1/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 5/32 | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 3/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 5/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1/2 | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 5/8 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 3/4 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |

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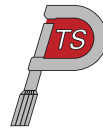
KNURLED SOCKET SHOULDER SCREWS



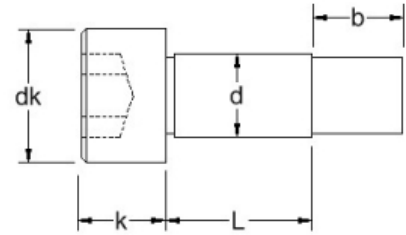
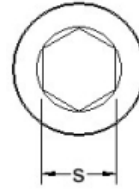
Material Grades: A2: ● A4: ▲

| | b | 5/32 | 3/16 | 3/16 | 3/16 | 3/8 | 1/4 | 7/16 | 3/4 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/2 | | |
|----------|------|------|------|------|-------|-------|--------|--------|---------|--------|--------|--------|--------|-------|---------|-------|--|--|
| dk | 1/4 | 9/32 | 5/16 | 5/16 | 3/8 | 3/8 | 7/16 | 9/16 | 9/16 | 3/4 | 7/8 | 1 | 1.5/16 | 1.3/4 | 2.1/8 | | | |
| k | 1/8 | 1/8 | 5/32 | 5/32 | 3/16 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | | | |
| s | 5/64 | 3/32 | 3/32 | 3/16 | 1/8 | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 7/8 | | | |
| Thread | 4-40 | 6-32 | 8-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | 7/8-9 | 1.1/8-7 | | | |
| length/d | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1.1/4 | 1.1/2 | | | |
| 1/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 5/32 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 3/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 7/32 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 9/32 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 5/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 11/32 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 13/32 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 7/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 15/32 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 9/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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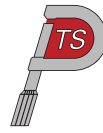
KNURLED SOCKET SHOULDER SCREWS



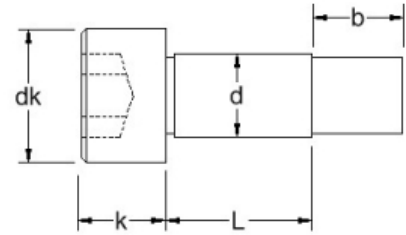
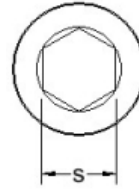
Material Grades: A2: ● A4: ▲

| | b | 5/32 | 3/16 | 3/16 | 3/16 | 3/8 | 1/4 | 7/16 | 3/4 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/2 | | |
|----------|------|------|------|------|-------|-------|--------|--------|---------|--------|--------|--------|--------|-------|---------|-------|--|--|
| dk | 1/4 | 9/32 | 5/16 | 5/16 | 3/8 | 3/8 | 7/16 | 9/16 | 9/16 | 3/4 | 7/8 | 1 | 1.5/16 | 1.3/4 | 2.1/8 | | | |
| k | 1/8 | 1/8 | 5/32 | 5/32 | 3/16 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | | | |
| s | 5/64 | 3/32 | 3/32 | 3/16 | 1/8 | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 7/8 | | | |
| Thread | 4-40 | 6-32 | 8-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | 7/8-9 | 1.1/8-7 | | | |
| length/d | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1.1/4 | 1.1/2 | | | |
| 11/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 13/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 15/16 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 1.1/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1.1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 1.3/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1.1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 1.5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 1.3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 1.7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 2.1/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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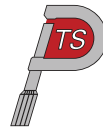
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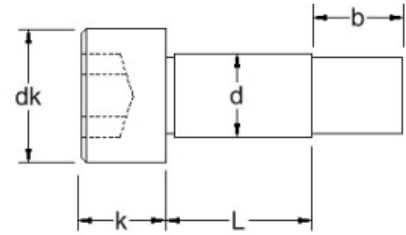
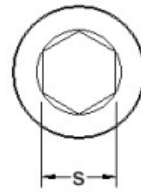
Material Grades: A2: ● A4: ▲

| | b | 5/32 | 3/16 | 3/16 | 3/16 | 3/8 | 1/4 | 7/16 | 3/4 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/2 | | |
|----------|------|------|------|------|-------|-------|--------|--------|---------|--------|--------|--------|--------|-------|---------|-------|--|--|
| dk | 1/4 | 9/32 | 5/16 | 5/16 | 3/8 | 3/8 | 7/16 | 9/16 | 9/16 | 3/4 | 7/8 | 1 | 1.5/16 | 1.3/4 | 2.1/8 | | | |
| k | 1/8 | 1/8 | 5/32 | 5/32 | 3/16 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | | | |
| s | 5/64 | 3/32 | 3/32 | 3/16 | 1/8 | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 7/8 | | | |
| Thread | 4-40 | 6-32 | 8-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | 7/8-9 | 1.1/8-7 | | | |
| length/d | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1.1/4 | 1.1/2 | | | |
| 2.1/2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 2.3/4 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 3 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | |
| 3.1/4 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 3.1/2 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 3.3/4 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 4 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 4.1/4 | | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 4.1/2 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 4.3/4 | | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 5 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 5.1/2 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 6 | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 6.1/2 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |
| 7 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | |

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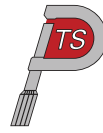
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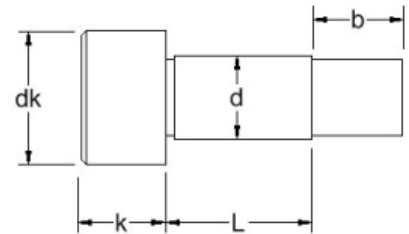
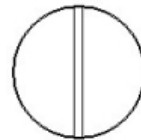
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|----------|------|------|------|------|-------|-------|--------|--------|---------|--------|--------|--------|--------|-------|---------|--|--|
| b | 5/32 | 3/16 | 3/16 | 3/16 | 3/8 | 1/4 | 7/16 | 3/4 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/2 | | |
| dk | 1/4 | 9/32 | 5/16 | 5/16 | 3/8 | 3/8 | 7/16 | 9/16 | 9/16 | 3/4 | 7/8 | 1 | 1.5/16 | 1.3/4 | 2.1/8 | | |
| k | 1/8 | 1/8 | 5/32 | 5/32 | 3/16 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | | |
| s | 5/64 | 3/32 | 3/32 | 3/16 | 1/8 | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 7/8 | | |
| Thread | 4-40 | 6-32 | 8-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | 7/8-9 | 1.1/8-7 | | |
| length/d | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1.1/4 | 1.1/2 | | |
| 7.1/2 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 8 | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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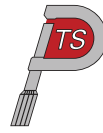
SLOTTED SHOULDER SCREWS



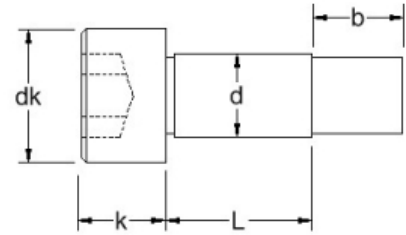
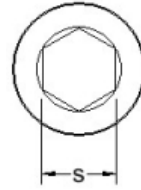
Material Grades: A2: ●

| b | 5/32 | 3/16 | 3/16 | 3/8 | 1/4 | 7/16 | 7/16 | 1/2 | 5/8 | | | | | | | | | |
|----------|------|------|------|-------|-------|--------|--------|---------|--------|--|--|--|--|--|--|--|--|--|
| dk | 1/4 | 9/32 | 5/16 | 3/8 | 3/8 | 7/16 | 9/16 | 9/16 | 3/4 | | | | | | | | | |
| k | 1/8 | 1/8 | 5/32 | 3/16 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | | | | | | | | | |
| Thread | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-20 | 5/16-18 | 3/8-16 | | | | | | | | | |
| length/d | 1/8 | 5/32 | 3/16 | 1/4 | 1/4 | 5/16 | 3/8 | 3/8 | 1/2 | | | | | | | | | |
| 1/8 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 5/16 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 7/16 | ● | | | | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 5/8 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 3/4 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.1/4 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.1/2 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |

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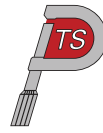
SOCKET SHOULDER SCREWS



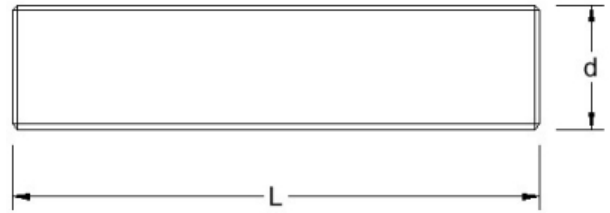
Material Grades: A2: ● 416: ◆

| | b | 5/32 | 3/16 | 3/16 | 3/8 | 1/4 | 7/16 | 7/16 | 1/2 | 5/8 | | | | | | | | |
|----------|------|------|------|-------|-------|--------|--------|---------|--------|-----|--|--|--|--|--|--|--|--|
| b | 5/32 | 3/16 | 3/16 | 3/8 | 1/4 | 7/16 | 7/16 | 1/2 | 5/8 | | | | | | | | | |
| dk | 1/4 | 9/32 | 5/16 | 3/8 | 3/8 | 7/16 | 9/16 | 9/16 | 3/4 | | | | | | | | | |
| k | 1/8 | 1/8 | 5/32 | 3/16 | 3/16 | 7/32 | 1/4 | 1/4 | 5/16 | | | | | | | | | |
| s | 5/64 | 3/32 | 3/32 | 1/8 | 1/8 | 5/32 | 3/16 | 3/16 | 1/4 | | | | | | | | | |
| Thread | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-20 | 5/16-18 | 3/8-16 | | | | | | | | | |
| length/d | 1/8 | 5/32 | 3/16 | 1/4 | 1/4 | 5/16 | 3/8 | 3/8 | 1/2 | | | | | | | | | |
| 1/8 | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | | |
| 3/16 | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | | |
| 1/4 | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | | | |
| 5/16 | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | |
| 3/8 | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | | |
| 7/16 | ●◆ | ●◆ | | | | | | | | | | | | | | | | |
| 1/2 | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | |
| 5/8 | | | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | |
| 3/4 | | | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | |
| 1 | | | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | |
| 1.1/4 | | | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | |
| 1.1/2 | | | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | ●◆ | | | | | | | | | |

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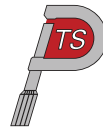
GEWINDESTANGEN X 36"



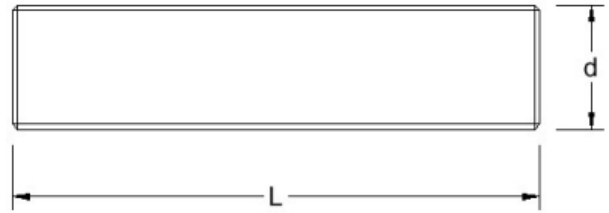
Material Grades: A2: ● A4: ▲

| L | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | |
|------------|------|------|------|------|------|------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|---------|
| length/dim | 2-56 | 4-40 | 5-40 | 6-32 | 6-40 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 |
| 3FT | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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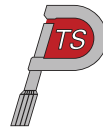
GEWINDESTANGEN X 36"



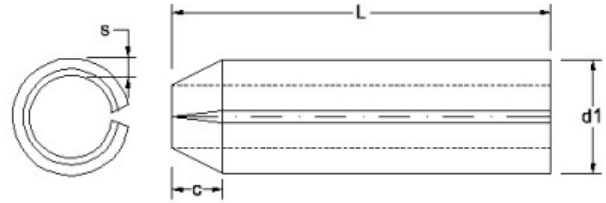
Material Grades: A2: ● A4: ▲

| L | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | | | |
|------------|--------|--------|---------|---------|--------|--------|--------|--------|-------|--------|-----|------|--|--|--|--|
| length/dim | 1/2-13 | 1/2-20 | 9/16-12 | 9/16-18 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 | 7/8-14 | 1-8 | 1-12 | | | | |
| 3FT | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |

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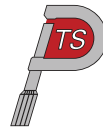
SPANNSTIFTE (SPANNHÜLSEN), ANSI B18.8.2



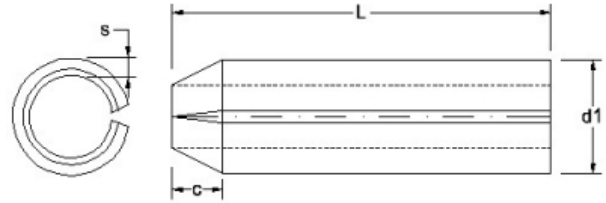
Material Grades: A2: ●

| c (max) | 0.028 | 0.038 | 0.044 | 0.055 | 0.065 | 0.080 | 0.095 | 0.095 | 0.110 | 0.125 | 0.150 | | | | | | | |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|--|--|--|--|--|
| d1 (max) | 0.069 | 0.103 | 0.135 | 0.199 | 0.264 | 0.330 | 0.395 | 0.459 | 0.524 | 0.653 | 0.784 | | | | | | | |
| Hole Size | 0.062 - 0.065 | 0.094 - 0.097 | 0.125 - 0.129 | 0.187 - 0.192 | 0.250 - 0.256 | 0.312 - 0.318 | 0.375 - 0.382 | 0.437 - 0.445 | 0.500 - 0.510 | 0.625 - 0.636 | 0.750 - 0.764 | | | | | | | |
| s | 0.012 | 0.022 | 0.028 | 0.040 | 0.048 | 0.062 | 0.077 | 0.077 | 0.094 | 0.125 | 0.150 | | | | | | | |
| length/dim | 1/16 | 3/32 | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | | | | | | | |
| 3/16 | | ● | | | | | | | | | | | | | | | | |
| 1/4 | ● | ● | | | | | | | | | | | | | | | | |
| 5/16 | ● | ● | ● | | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | | | | | | | | | | | | | | | |
| 7/16 | | ● | ● | | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 9/16 | ● | ● | | | | | | | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 7/8 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 1 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.1/2 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 1.3/4 | | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 2 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| 2.1/4 | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | |

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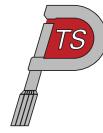
SPANNSTIFTE (SPANNHÜLSEN), ANSI B18.8.2



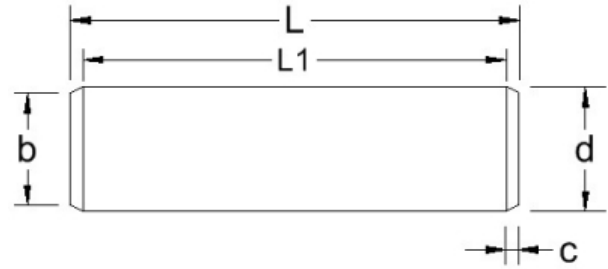
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|--|
| c (max) | 0.028 | 0.038 | 0.044 | 0.055 | 0.065 | 0.080 | 0.095 | 0.095 | 0.110 | 0.125 | 0.150 | | | | | | |
| d1 (max) | 0.069 | 0.103 | 0.135 | 0.199 | 0.264 | 0.330 | 0.395 | 0.459 | 0.524 | 0.653 | 0.784 | | | | | | |
| Hole Size | 0.062 - 0.065 | 0.094 - 0.097 | 0.125 - 0.129 | 0.187 - 0.192 | 0.250 - 0.256 | 0.312 - 0.318 | 0.375 - 0.382 | 0.437 - 0.445 | 0.500 - 0.510 | 0.625 - 0.636 | 0.750 - 0.764 | | | | | | |
| s | 0.012 | 0.022 | 0.028 | 0.040 | 0.048 | 0.062 | 0.077 | 0.077 | 0.094 | 0.125 | 0.150 | | | | | | |
| length/dim | 1/16 | 3/32 | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | | | | | | |
| 2.1/2 | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| 2.3/4 | | | | | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| 3 | | | | | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| 3.1/2 | | | | | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| 4 | | | | | | ● | ● | ● | ● | ● | ● | | | | | | |
| 4.1/2 | | | | | | | | | | ● | ● | | | | | | |
| 5 | | | | | | | | | | ● | ● | | | | | | |
| 5.1/2 | | | | | | | | | | ● | ● | | | | | | |
| 6 | | | | | | | | | | ● | ● | | | | | | |

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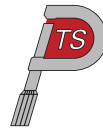
ZYLINDERSTIFTE, ANSI B18.8.2



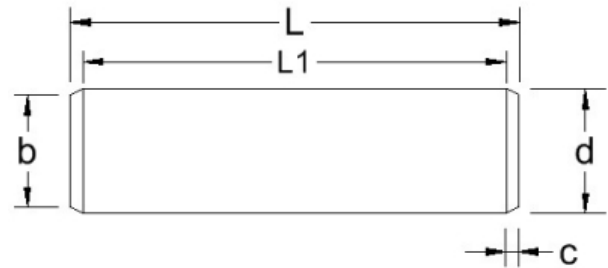
Material Grades: A2: ● A4: ▲

| b (max) | 0.058 | 0.089 | 0.120 | 0.180 | 0.240 | 0.302 | 0.365 | 0.424 | 0.486 | 0.611 | 0.735 | | | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|--|--|--|--|--|--|
| c (max) | 0.020 | 0.031 | 0.041 | 0.062 | 0.083 | 0.104 | 0.125 | 0.146 | 0.167 | 0.208 | 0.250 | | | | | | | | |
| Hole Size | 0.0620 - 0.0625 | 0.0932 - 0.0937 | 0.1245 - 0.1250 | 0.1870 - 0.1875 | 0.2495 - 0.2500 | 0.3120 - 0.3125 | 0.3745 - 0.3750 | 0.4370 - 0.4375 | 0.4995 - 0.5000 | 0.6245 - 0.6250 | 0.7495 - 0.7500 | | | | | | | | |
| length/dim | 1/16 | 3/32 | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | | | | | | | | |
| 3/16 | ●▲ | | | | | | | | | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 5/16 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | | | | | |
| 7/8 | | ● | | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | ● | | | | | | | | | |
| 1.1/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | ● | | | | | | | | | |
| 1.1/2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | ● | ● | | | | | | | | |
| 1.3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | ● | ● | | | | | | | | |
| 2 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | ● | ● | | | | | | | | |
| 2.1/4 | | | | | ●▲ | ●▲ | ●▲ | ● | ● | ● | ● | | | | | | | | |
| 2.1/2 | | | | | ●▲ | ●▲ | ●▲ | ● | ● | ● | ● | | | | | | | | |
| 3 | | | | | ●▲ | ●▲ | ●▲ | ● | ● | ● | ● | | | | | | | | |
| 3.1/2 | | | | | ●▲ | ●▲ | ●▲ | ● | ● | ● | ● | | | | | | | | |

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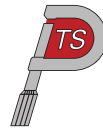
ZYLINDERSTIFTE, ANSI B18.8.2



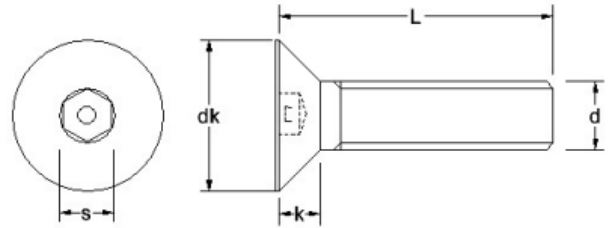
Material Grades: A2: ● A4: ▲

| b (max) | 0.058 | 0.089 | 0.120 | 0.180 | 0.240 | 0.302 | 0.365 | 0.424 | 0.486 | 0.611 | 0.735 | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|--|--|--|--|
| c (max) | 0.020 | 0.031 | 0.041 | 0.062 | 0.083 | 0.104 | 0.125 | 0.146 | 0.167 | 0.208 | 0.250 | | | | | | |
| Hole Size | 0.0620 - 0.0625 | 0.0932 - 0.0937 | 0.1245 - 0.1250 | 0.1870 - 0.1875 | 0.2495 - 0.2500 | 0.3120 - 0.3125 | 0.3745 - 0.3750 | 0.4370 - 0.4375 | 0.4995 - 0.5000 | 0.6245 - 0.6250 | 0.7495 - 0.7500 | | | | | | |
| length/dim | 1/16 | 3/32 | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | | | | | | |
| 4 | | | | | ● ▲ | ● ▲ | ● ▲ | ● | ● | ● | ● | | | | | | |
| 4.1/2 | | | | | | | ● ▲ | ● | ● | ● | ● | | | | | | |
| 5 | | | | | | | ● ▲ | ● | ● | ● | ● | | | | | | |
| 5.1/2 | | | | | | | | | ● | ● | ● | | | | | | |
| 6 | | | | | | | | | ● | ● | ● | | | | | | |

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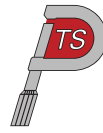
SENK-SCHRAUBEN MIT INNENSECHSKANT UND SICHERHEITS-PIN



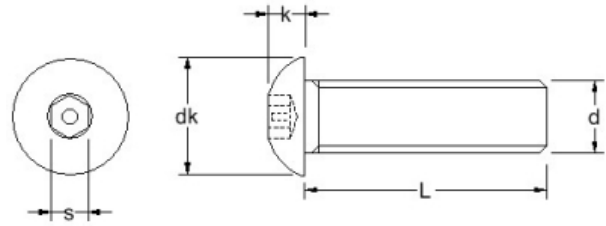
Material Grades: A2: ●

| dk (max) | 0.307 | 0.359 | 0.411 | 0.411 | 0.531 | 0.656 | 0.781 | | | | | | | | | | | |
|------------|-------|-------|-------|-------|--------|---------|--------|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 0.097 | 0.112 | 0.127 | 0.127 | 0.161 | 0.198 | 0.234 | | | | | | | | | | | |
| s | 1/8 | 1/8 | 5/32 | 5/32 | 5/32 | 3/16 | 7/32 | | | | | | | | | | | |
| length/dim | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 5/16-18 | 3/8-16 | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 1 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 1.1/4 | | | | | ● | | | | | | | | | | | | | |
| 1.1/2 | | | ● | ● | ● | | | | | | | | | | | | | |

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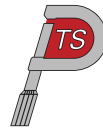
FLACHRUND-SCHRAUBEN MIT INNENSECHSKANT UND SICHERHEITS-PIN



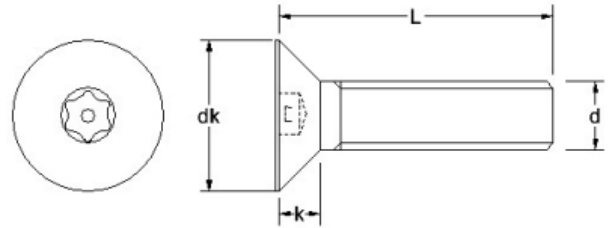
Material Grades: A2: ●

| dk (max) | 0.262 | 0.312 | 0.361 | 0.361 | 0.437 | 0.547 | 0.656 | | | | | | | | | | | |
|------------|-------|-------|-------|-------|--------|---------|--------|--|--|--|--|--|--|--|--|--|--|--|
| k (max) | 0.073 | 0.087 | 0.101 | 0.101 | 0.132 | 0.166 | 0.199 | | | | | | | | | | | |
| s | 1/8 | 1/8 | 5/32 | 5/32 | 5/32 | 3/16 | 7/32 | | | | | | | | | | | |
| length/dim | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 5/16-18 | 3/8-16 | | | | | | | | | | | |
| 1/4 | ● | | ● | ● | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 5/8 | | | ● | ● | ● | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 1.1/4 | | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 1.1/2 | | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 1.3/4 | | | | | | | | | | | | | | | | | | |
| 2 | | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 2.1/4 | | | | | | | | | | | | | | | | | | |
| 2.1/2 | | | | | | | | | | | | | | | | | | |
| 2.3/4 | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | |
| 3.1/4 | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |

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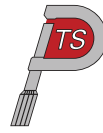
SENK-SCHRAUBEN MIT INNENVIELZAHN UND SICHERHEITS-PIN



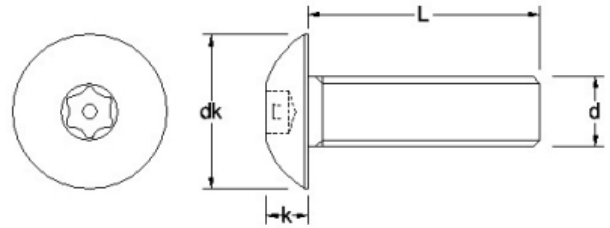
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.307 | 0.359 | 0.411 | 0.411 | 0.531 | | | | | | | | | | | | | | |
| k (max) | 0.097 | 0.112 | 0.127 | 0.127 | 0.161 | | | | | | | | | | | | | | |
| length/dim | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | | | | | | | | | | | | | | |
| 3/8 | ● | ● | | | | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 1.1/2 | | | | | ● | | | | | | | | | | | | | | |

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FLACHRUND-SCHRAUBEN MIT INNENVIELZAHN UND SICHERHEITS-PIN

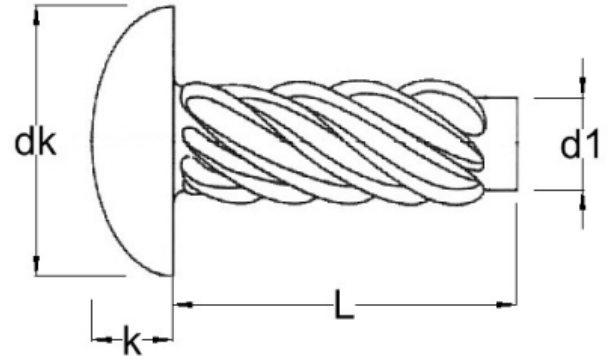


Material Grades: A2: ●

| dk (max) | 0.213 | 0.262 | 0.312 | 0.361 | 0.361 | 0.437 | 0.547 | 0.656 | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|--------|---------|--------|--|--|--|--|--|--|--|--|--|--|
| k (max) | 0.059 | 0.073 | 0.087 | 0.101 | 0.101 | 0.132 | 0.166 | 0.199 | | | | | | | | | | |
| length/dim | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 5/16-18 | 3/8-16 | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 5/8 | | | ● | ● | ● | ● | | | | | | | | | | | | |
| 3/4 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/4 | | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/2 | | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 2 | | | | | | ● | | | | | | | | | | | | |

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HALBRUNDKOPF-HAMMERKOPFSCHRAUBEN, ANSI B18.6.4



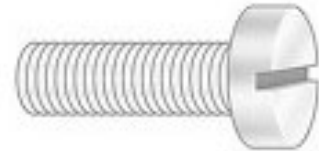
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|
| d1 (max) | 0.049 | 0.063 | 0.083 | 0.096 | 0.116 | 0.136 | 0.150 | 0.177 | 0.202 | | | | | | | | |
| dk (max) | 0.099 | 0.127 | 0.162 | 0.211 | 0.260 | 0.309 | 0.359 | 0.408 | 0.457 | | | | | | | | |
| k (max) | 0.034 | 0.049 | 0.069 | 0.086 | 0.103 | 0.120 | 0.137 | 0.153 | 0.170 | | | | | | | | |
| length/dim | NO.00 | NO.0 | NO.2 | NO.4 | NO.6 | NO.8 | NO.10 | NO.12 | NO.14 | | | | | | | | |
| 1/8 | ● | ● | ● | | | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 5/16 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1/2 | | | ● | | ● | ● | ● | ● | ● | | | | | | | | |
| 5/8 | | | | | ● | | | | | | | | | | | | |
| 3/4 | | | | | ● | | | | | | | | | | | | |

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BECHERSCHRAUBEN MIT KREUZSCHLITZ, ANSI B18.6.3

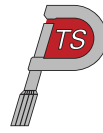


No IMAGE AVAILABLE

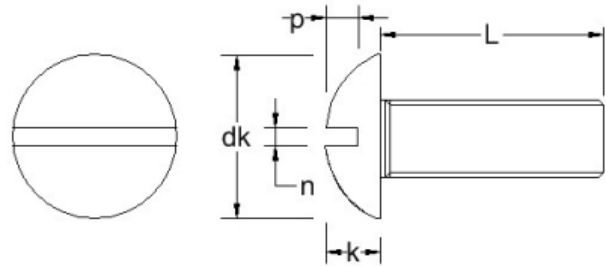
Material Grades: A2: ●

| dk (max) | 0.321 | 0.384 | 0.448 | 0.448 | 0.573 | 0.573 | 0.698 | 0.823 | | | | | | | | | | |
|------------|-------|-------|-------|-------|--------|--------|---------|--------|---|--|--|--|--|--|--|--|--|--|
| Drive | #2 | #2 | #2 | #2 | #3 | #3 | #4 | #4 | | | | | | | | | | |
| k (max) | 0.086 | 0.102 | 0.128 | 0.128 | 0.150 | 0.150 | 0.183 | 0.215 | | | | | | | | | | |
| length/dim | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 3/8-16 | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 5/16 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 7/16 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 7/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.1/2 | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.3/4 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 2 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 2.1/2 | | | | | ● | ● | ● | ● | ● | | | | | | | | | |
| 3 | | | | | ● | ● | ● | ● | ● | | | | | | | | | |

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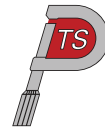
RUNDKOPFSCHRAUBEN MIT SCHLITZ, ANSI B18.6.3



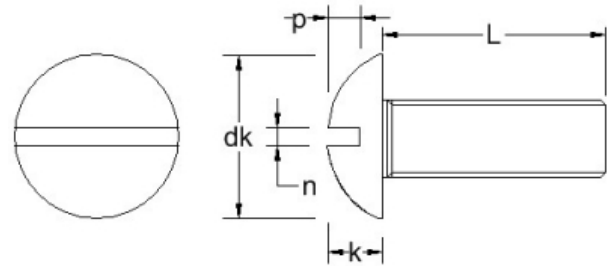
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|--------|---|--|--|--|--|
| dk (max) | 0.162 | 0.187 | 0.211 | 0.236 | 0.260 | 0.309 | 0.359 | 0.359 | 0.472 | 0.472 | 0.590 | 0.708 | | | | | |
| k (max) | 0.069 | 0.078 | 0.086 | 0.095 | 0.103 | 0.120 | 0.137 | 0.137 | 0.175 | 0.175 | 0.216 | 0.256 | | | | | |
| n (max) | 0.031 | 0.035 | 0.039 | 0.043 | 0.048 | 0.054 | 0.060 | 0.060 | 0.075 | 0.075 | 0.084 | 0.094 | | | | | |
| p (max) | 0.048 | 0.053 | 0.058 | 0.063 | 0.068 | 0.077 | 0.087 | 0.087 | 0.109 | 0.109 | 0.132 | 0.155 | | | | | |
| length/dim | 2-56 | 3-48 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 3/8-16 | | | | | |
| 1/8 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 5/16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| 7/16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| 9/16 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 7/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 1.1/4 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 1.1/2 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 1.3/4 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 2 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |

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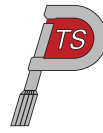
RUNDKOPFSCHRAUBEN MIT SCHLITZ, ANSI B18.6.3



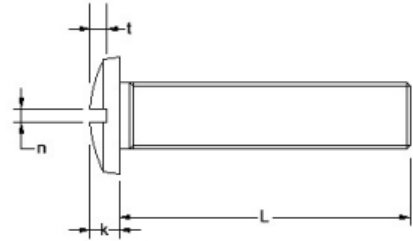
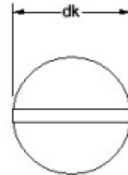
Material Grades: A2: ●

| dk (max) | 0.162 | 0.187 | 0.211 | 0.236 | 0.260 | 0.309 | 0.359 | 0.359 | 0.472 | 0.472 | 0.590 | 0.708 | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|--------|--|--|--|--|--|
| k (max) | 0.069 | 0.078 | 0.086 | 0.095 | 0.103 | 0.120 | 0.137 | 0.137 | 0.175 | 0.175 | 0.216 | 0.256 | | | | | |
| n (max) | 0.031 | 0.035 | 0.039 | 0.043 | 0.048 | 0.054 | 0.060 | 0.060 | 0.075 | 0.075 | 0.084 | 0.094 | | | | | |
| p (max) | 0.048 | 0.053 | 0.058 | 0.063 | 0.068 | 0.077 | 0.087 | 0.087 | 0.109 | 0.109 | 0.132 | 0.155 | | | | | |
| length/dim | 2-56 | 3-48 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 3/8-16 | | | | | |
| 2.1/4 | | | | | | | ● | | ● | ● | ● | | | | | | |
| 2.1/2 | | | | | | | ● | ● | ● | ● | ● | ● | | | | | |
| 2.3/4 | | | | | | | ● | ● | ● | ● | ● | | | | | | |
| 3 | | | | | | | ● | ● | ● | ● | ● | ● | | | | | |
| 3.1/2 | | | | | | | | | | | | ● | | | | | |
| 4 | | | | | | | | | | | | ● | | | | | |

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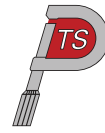
FLACHKOPFSCHRAUBEN MIT SCHLITZ, GROßER KOPF, ANSI B18.6.3



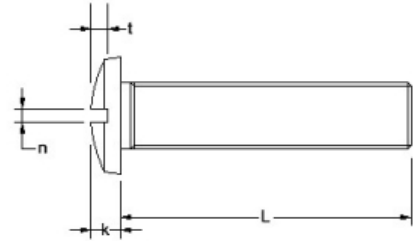
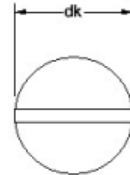
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|--------|---|--|--|--|--|
| dk | 0.181 | 0.208 | 0.235 | 0.263 | 0.290 | 0.344 | 0.399 | 0.399 | 0.525 | 0.525 | 0.656 | 0.788 | | | | | |
| k (max) | 0.050 | 0.059 | 0.068 | 0.078 | 0.087 | 0.105 | 0.123 | 0.123 | 0.165 | 0.165 | 0.209 | 0.253 | | | | | |
| n (max) | 0.031 | 0.035 | 0.039 | 0.043 | 0.048 | 0.054 | 0.060 | 0.060 | 0.075 | 0.075 | 0.084 | 0.094 | | | | | |
| p (max) | 0.030 | 0.036 | 0.042 | 0.048 | 0.053 | 0.065 | 0.077 | 0.077 | 0.105 | 0.105 | 0.134 | 0.163 | | | | | |
| length/dim | 2-56 | 3-48 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 3/8-16 | | | | | |
| 1/8 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 5/16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| 7/16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| 9/16 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 7/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 1.1/4 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 1.1/2 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 1.3/4 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 2 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |

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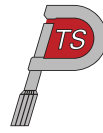
FLACHKOPFSCHRAUBEN MIT SCHLITZ, GROßER KOPF, ANSI B18.6.3



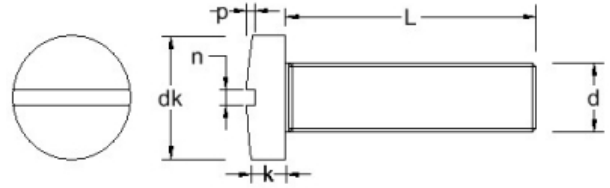
Material Grades: A2: ●

| dk | 0.181 | 0.208 | 0.235 | 0.263 | 0.290 | 0.344 | 0.399 | 0.399 | 0.525 | 0.525 | 0.656 | 0.788 | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|--------|--|--|--|--|--|
| k (max) | 0.050 | 0.059 | 0.068 | 0.078 | 0.087 | 0.105 | 0.123 | 0.123 | 0.165 | 0.165 | 0.209 | 0.253 | | | | | |
| n (max) | 0.031 | 0.035 | 0.039 | 0.043 | 0.048 | 0.054 | 0.060 | 0.060 | 0.075 | 0.075 | 0.084 | 0.094 | | | | | |
| p (max) | 0.030 | 0.036 | 0.042 | 0.048 | 0.053 | 0.065 | 0.077 | 0.077 | 0.105 | 0.105 | 0.134 | 0.163 | | | | | |
| length/dim | 2-56 | 3-48 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 3/8-16 | | | | | |
| 2.1/4 | | | | | | | | | ● | ● | ● | | | | | | |
| 2.1/2 | | | | | | | | | ● | ● | ● | ● | | | | | |
| 2.3/4 | | | | | | | | | ● | ● | ● | | | | | | |
| 3 | | | | | | | | | ● | ● | ● | ● | | | | | |
| 3.1/2 | | | | | | | | | | | | ● | | | | | |
| 4 | | | | | | | | | | | | ● | | | | | |

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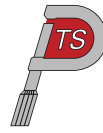
LINSENSCHRAUBEN MIT SCHLITZ, ANSI B18.6.3



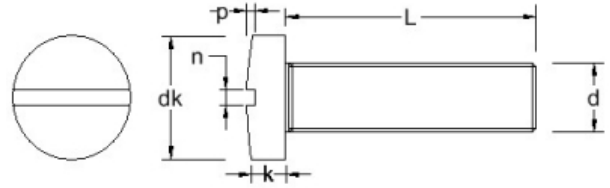
Material Grades: A2: ●

| dk (max) | 0.096 | 0.118 | 0.118 | 0.140 | 0.140 | 0.161 | 0.161 | 0.183 | 0.183 | 0.205 | 0.226 | 0.226 | 0.270 | 0.313 | 0.313 | 0.357 | 0.414 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| k (max) | 0.055 | 0.066 | 0.066 | 0.083 | 0.083 | 0.095 | 0.095 | 0.107 | 0.107 | 0.120 | 0.132 | 0.132 | 0.156 | 0.180 | 0.180 | 0.205 | 0.237 |
| n (max) | 0.023 | 0.026 | 0.026 | 0.031 | 0.031 | 0.035 | 0.035 | 0.039 | 0.039 | 0.043 | 0.048 | 0.048 | 0.054 | 0.060 | 0.060 | 0.067 | 0.075 |
| p (max) | 0.025 | 0.031 | 0.031 | 0.037 | 0.037 | 0.043 | 0.043 | 0.048 | 0.048 | 0.054 | 0.060 | 0.060 | 0.071 | 0.083 | 0.083 | 0.094 | 0.109 |
| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 2-64 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 6-40 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 |
| 1/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| 5/32 | ● | | | | | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| 1/4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| 5/16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 3/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 7/16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 9/16 | ● | | | | | | | ● | ● | ● | ● | ● | ● | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 7/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 1.1/8 | | | | | | | | | | | ● | | ● | | | | |
| 1.1/4 | | | | | | ● | | ● | | ● | ● | ● | ● | ● | ● | ● | ● |
| 1.1/2 | | | | | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● |

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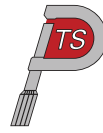
LINSENSCHRAUBEN MIT SCHLITZ, ANSI B18.6.3



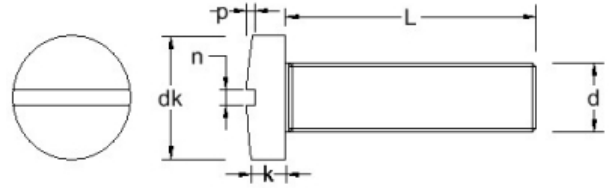
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | | |
|------------|--------|---------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.414 | 0.518 | 0.622 | | | | | | | | | | | | | | | | | |
| k (max) | 0.237 | 0.295 | 0.355 | | | | | | | | | | | | | | | | | |
| n (max) | 0.075 | 0.084 | 0.094 | | | | | | | | | | | | | | | | | |
| p (max) | 0.109 | 0.137 | 0.164 | | | | | | | | | | | | | | | | | |
| length/dim | 1/4-28 | 5/16-18 | 3/8-16 | | | | | | | | | | | | | | | | | |
| 1/8 | | | | | | | | | | | | | | | | | | | | |
| 5/32 | | | | | | | | | | | | | | | | | | | | |
| 3/16 | | | | | | | | | | | | | | | | | | | | |
| 1/4 | | | | | | | | | | | | | | | | | | | | |
| 5/16 | ● | | | | | | | | | | | | | | | | | | | |
| 3/8 | ● | ● | | | | | | | | | | | | | | | | | | |
| 7/16 | | | | | | | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | | | | | | | | | | | | | | | | | |
| 9/16 | | | | | | | | | | | | | | | | | | | | |
| 5/8 | ● | ● | ● | | | | | | | | | | | | | | | | | |
| 3/4 | ● | ● | ● | | | | | | | | | | | | | | | | | |
| 7/8 | ● | ● | ● | | | | | | | | | | | | | | | | | |
| 1 | ● | ● | ● | | | | | | | | | | | | | | | | | |
| 1.1/8 | | | | | | | | | | | | | | | | | | | | |
| 1.1/4 | ● | ● | ● | | | | | | | | | | | | | | | | | |
| 1.1/2 | ● | ● | ● | | | | | | | | | | | | | | | | | |

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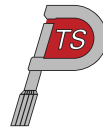
LINSENSCHRAUBEN MIT SCHLITZ, ANSI B18.6.3



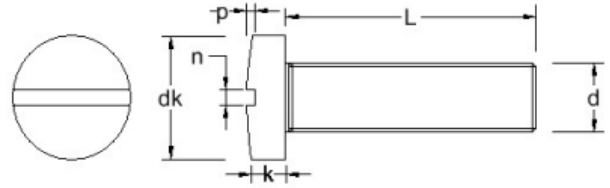
Material Grades: A2: ●

| dk (max) | 0.096 | 0.118 | 0.118 | 0.140 | 0.140 | 0.161 | 0.161 | 0.183 | 0.183 | 0.205 | 0.226 | 0.226 | 0.270 | 0.313 | 0.313 | 0.357 | 0.414 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| k (max) | 0.055 | 0.066 | 0.066 | 0.083 | 0.083 | 0.095 | 0.095 | 0.107 | 0.107 | 0.120 | 0.132 | 0.132 | 0.156 | 0.180 | 0.180 | 0.205 | 0.237 |
| n (max) | 0.023 | 0.026 | 0.026 | 0.031 | 0.031 | 0.035 | 0.035 | 0.039 | 0.039 | 0.043 | 0.048 | 0.048 | 0.054 | 0.060 | 0.060 | 0.067 | 0.075 |
| p (max) | 0.025 | 0.031 | 0.031 | 0.037 | 0.037 | 0.043 | 0.043 | 0.048 | 0.048 | 0.054 | 0.060 | 0.060 | 0.071 | 0.083 | 0.083 | 0.094 | 0.109 |
| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 2-64 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 6-40 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 |
| 1.3/4 | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● |
| 2 | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● |
| 2.1/4 | | | | | | | | | | | | | | ● | ● | | |
| 2.1/2 | | | | | | | | | | | | | | ● | ● | ● | ● |
| 2.3/4 | | | | | | | | | | | | | | ● | ● | | |
| 3 | | | | | | | | | | | | | | ● | ● | ● | ● |
| 3.1/2 | | | | | | | | | | | | | | | | | ● |
| 4 | | | | | | | | | | | | | | | | | ● |
| 4.1/2 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |

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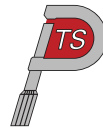
LINSENSCHRAUBEN MIT SCHLITZ, ANSI B18.6.3



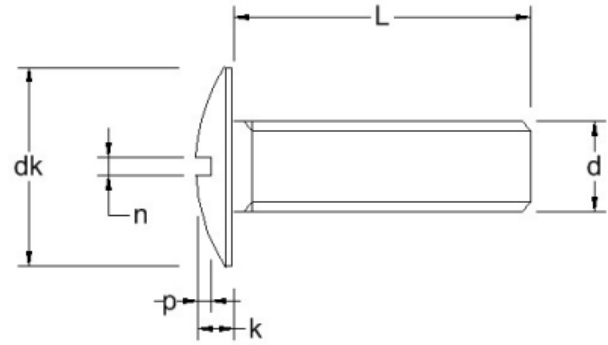
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|--------|---------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.414 | 0.518 | 0.622 | | | | | | | | | | | | | | | | |
| k (max) | 0.237 | 0.295 | 0.355 | | | | | | | | | | | | | | | | |
| n (max) | 0.075 | 0.084 | 0.094 | | | | | | | | | | | | | | | | |
| p (max) | 0.109 | 0.137 | 0.164 | | | | | | | | | | | | | | | | |
| length/dim | 1/4-28 | 5/16-18 | 3/8-16 | | | | | | | | | | | | | | | | |
| 1.3/4 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 2 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 2.1/4 | | | | | | | | | | | | | | | | | | | |
| 2.1/2 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 2.3/4 | | | | | | | | | | | | | | | | | | | |
| 3 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 3.1/2 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 4 | ● | ● | ● | | | | | | | | | | | | | | | | |
| 4.1/2 | | ● | | | | | | | | | | | | | | | | | |
| 5 | | ● | ● | | | | | | | | | | | | | | | | |
| 6 | | | ● | | | | | | | | | | | | | | | | |

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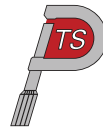
BECHERSCHRAUBEN, ANSI B18.6.3



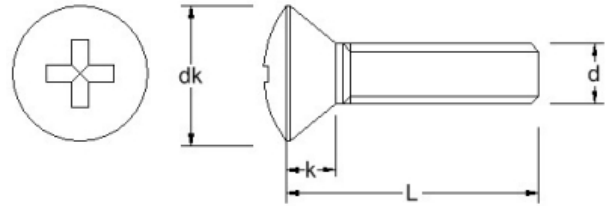
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|--------|--------|---------|--------|---|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.321 | 0.384 | 0.448 | 0.448 | 0.573 | 0.573 | 0.698 | 0.823 | | | | | | | | | | |
| k (max) | 0.086 | 0.102 | 0.128 | 0.128 | 0.150 | 0.150 | 0.183 | 0.215 | | | | | | | | | | |
| n (max) | 0.048 | 0.054 | 0.060 | 0.060 | 0.075 | 0.075 | 0.084 | 0.094 | | | | | | | | | | |
| p (max) | 0.050 | 0.058 | 0.068 | 0.068 | 0.087 | 0.087 | 0.106 | 0.124 | | | | | | | | | | |
| length/dim | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 3/8-16 | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 5/16 | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 7/16 | ● | ● | | | ● | ● | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 7/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.1/4 | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.1/2 | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 1.3/4 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 2 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | |
| 2.1/2 | | | | | ● | ● | ● | ● | ● | | | | | | | | | |
| 3 | | | | | ● | ● | ● | ● | ● | | | | | | | | | |

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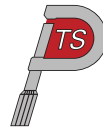
LINSEN-SENKSCRAUBEN MIT KREUZSCHLITZ - PHILLIPS, ANSI B18.6.3



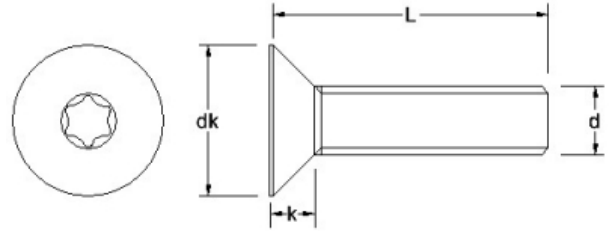
Material Grades: A2: ● A4: ▲

| dk (max) | 0.162 | 0.212 | | 0.262 | 0.312 | 0.362 | 0.362 | 0.477 | 0.477 | | | | | | | | | |
|------------|-------|-------|------|-------|-------|-------|-------|--------|--------|--|--|--|--|--|--|--|--|--|
| Drive | #1 | #1 | | #2 | #2 | #2 | #2 | #3 | #3 | | | | | | | | | |
| k (max) | 0.080 | 0.104 | | 0.128 | 0.152 | 0.176 | 0.176 | 0.232 | 0.232 | | | | | | | | | |
| length/dim | 2-56 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | | | | | | | | | |
| 3/16 | ● | | | | | | | | | | | | | | | | | |
| 1/4 | ● | ●▲ | ● | ●▲ | | | | | | | | | | | | | | |
| 5/16 | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 3/8 | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 7/16 | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 1/2 | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 5/8 | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 3/4 | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 7/8 | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 1 | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | |
| 1.1/4 | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.3/4 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2 | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/2 | | | | | | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3 | | | | | | | | ●▲ | | | | | | | | | | |

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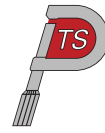
SENKSCHRAUBEN MIT INNENVIELZAHN



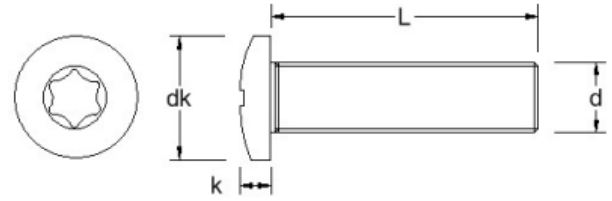
Material Grades: A2: ●

| dk (max) | 0.212 | 0.262 | 0.312 | 0.362 | 0.362 | 0.477 | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|--|--|--|
| k | 0.067 | 0.083 | 0.100 | 0.116 | 0.116 | 0.153 | | | | | | | | | | | |
| length/dim | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | | | | | | | | | | | |
| 1/4 | ● | ● | | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 3/4 | | ● | | ● | ● | ● | | | | | | | | | | | |

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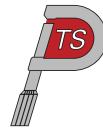
LINSENSCHRAUBEN MIT INNENVIELZAHN



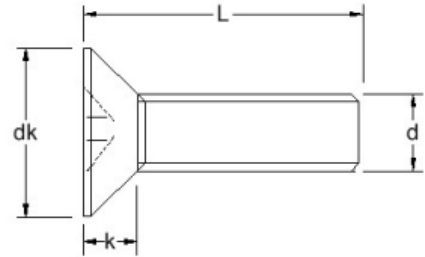
Material Grades: A2: ●

| dk (max) | 0.219 | 0.270 | 0.322 | 0.373 | 0.373 | 0.492 | 0.615 | 0.740 | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|--------|---------|--------|--|--|--|--|--|--|--|--|--|--|
| k (max) | 0.080 | 0.097 | 0.115 | 0.133 | 0.133 | 0.175 | 0.218 | 0.261 | | | | | | | | | | |
| length/dim | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 5/16-18 | 3/8-16 | | | | | | | | | | |
| 1/4 | ● | ● | ● | | | | | | | | | | | | | | | |
| 5/16 | ● | | | | | | | | | | | | | | | | | |
| 3/8 | ● | ● | ● | | | | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 3/4 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1 | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/4 | | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/2 | | | | ● | ● | ● | | ● | | | | | | | | | | |

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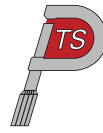
SENKSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, ANSI B18.6.3



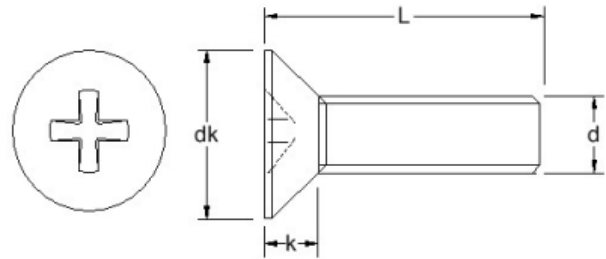
Material Grades: A2: ● A4: ▲

| dk (max) | 0.112 | 0.137 | 0.137 | 0.162 | 0.187 | 0.187 | 0.212 | 0.212 | 0.237 | 0.262 | 0.312 | 0.362 | 0.362 | 0.412 | 0.477 | 0.477 | 0.597 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| Drive | #0 | #0 | #0 | #1 | #1 | #1 | #1 | #1 | #2 | #2 | #2 | #2 | #2 | #3 | #3 | #3 | #4 |
| k | 0.035 | 0.043 | 0.043 | 0.051 | 0.059 | 0.059 | 0.067 | 0.067 | 0.075 | 0.083 | 0.100 | 0.116 | 0.116 | 0.132 | 0.153 | 0.153 | 0.191 |
| L1 | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 | 3/16 | 3/16 | 3/16 | 3/16 | 1/4 | 5/16 | 5/16 | 3/8 | 7/16 | 7/16 | 1/2 |
| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 |
| 1/8 | ● | ● | ● | ●▲ | | | ●▲ | ● | | | | | | | | | |
| 5/32 | | | | ●▲ | | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | | | | | | | |
| 1/4 | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 5/16 | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | |
| 3/8 | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 7/16 | ● | ● | ● | ●▲ | ● | | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 1/2 | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 9/16 | ● | ● | ● | ●▲ | | | ●▲ | ● | | ●▲ | | | | | | | |
| 5/8 | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 3/4 | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 7/8 | | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 1 | | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 1.1/8 | | | | ●▲ | | | | | | | | | | | | | |
| 1.1/4 | | | | ●▲ | ● | | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 1.1/2 | | | | ●▲ | ● | | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |

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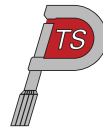
SENKSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, ANSI B18.6.3



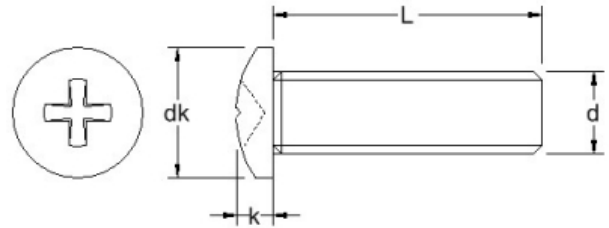
Material Grades: A2: ● A4: ▲

| dk (max) | 0.112 | 0.137 | 0.137 | 0.162 | 0.187 | 0.187 | 0.212 | 0.212 | 0.237 | 0.262 | 0.312 | 0.362 | 0.362 | 0.412 | 0.477 | 0.477 | 0.597 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| Drive | #0 | #0 | #0 | #1 | #1 | #1 | #1 | #1 | #2 | #2 | #2 | #2 | #2 | #3 | #3 | #3 | #4 |
| k | 0.035 | 0.043 | 0.043 | 0.051 | 0.059 | 0.059 | 0.067 | 0.067 | 0.075 | 0.083 | 0.100 | 0.116 | 0.116 | 0.132 | 0.153 | 0.153 | 0.191 |
| L1 | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 | 3/16 | 3/16 | 3/16 | 3/16 | 1/4 | 5/16 | 5/16 | 3/8 | 7/16 | 7/16 | 1/2 |
| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 |
| 1.3/4 | | | | | | | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 2 | | | | | | | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 2.1/4 | | | | | | | | | | | | | | | ●▲ | ● | ●▲ |
| 2.1/2 | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 2.3/4 | | | | | | | | | | | | | | | ●▲ | ● | |
| 3 | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 3.1/2 | | | | | | | | | | | ●▲ | ●▲ | ●▲ | | ●▲ | | ●▲ |
| 4 | | | | | | | | | | | ●▲ | ●▲ | ●▲ | | ●▲ | | ●▲ |
| 5 | | | | | | | | | | | | | | | ●▲ | | ●▲ |
| 6 | | | | | | | | | | | | | | | | | ●▲ |

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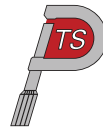
LINSENSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, ANSI B18.6.3



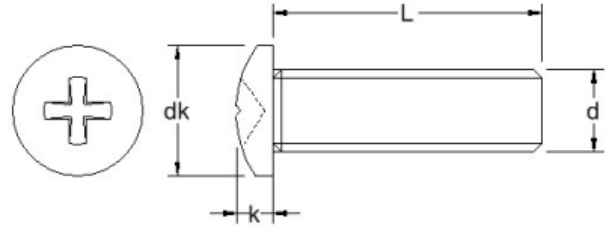
Material Grades: A2: ● A4: ▲

| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| dk (max) | 0.116 | 0.142 | 0.142 | 0.167 | 0.193 | 0.193 | 0.219 | 0.219 | 0.245 | 0.270 | 0.322 | 0.373 | 0.373 | 0.425 | 0.492 | 0.492 | 0.615 |
| Drive | #0 | #0 | #0 | #1 | #1 | #1 | #1 | #1 | #2 | #2 | #2 | #2 | #2 | #3 | #3 | #3 | #4 |
| k (max) | 0.044 | 0.053 | 0.053 | 0.062 | 0.071 | 0.071 | 0.080 | 0.080 | 0.089 | 0.097 | 0.115 | 0.133 | 0.133 | 0.151 | 0.175 | 0.175 | 0.218 |
| 1/8 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | | | | | | | |
| 5/32 | | | | ●▲ | | | ●▲ | ● | | | | | | | | | |
| 3/16 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 1/4 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 5/16 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | |
| 3/8 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 7/16 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 1/2 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 9/16 | | | | ●▲ | | | ●▲ | ● | | ●▲ | ●▲ | ●▲ | ●▲ | | | | |
| 5/8 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 3/4 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 7/8 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 1 | ● | ● | ● | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ |
| 1.1/8 | | | | ●▲ | | | ●▲ | | | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ● | |
| 1.1/4 | | | | ●▲ | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 1.3/8 | | | | | | | | | | | ●▲ | ●▲ | ●▲ | | | | |
| 1.1/2 | | | | ●▲ | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |

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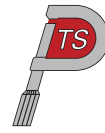
LINSENSCHRAUBEN MIT KREUZSCHLITZ - PHILLIPS, ANSI B18.6.3



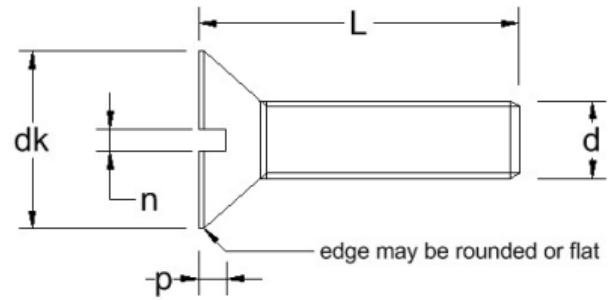
Material Grades: A2: ● A4: ▲

| dk (max) | 0.116 | 0.142 | 0.142 | 0.167 | 0.193 | 0.193 | 0.219 | 0.219 | 0.245 | 0.270 | 0.322 | 0.373 | 0.373 | 0.425 | 0.492 | 0.492 | 0.615 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| Drive | #0 | #0 | #0 | #1 | #1 | #1 | #1 | #1 | #2 | #2 | #2 | #2 | #2 | #3 | #3 | #3 | #4 |
| k (max) | 0.044 | 0.053 | 0.053 | 0.062 | 0.071 | 0.071 | 0.080 | 0.080 | 0.089 | 0.097 | 0.115 | 0.133 | 0.133 | 0.151 | 0.175 | 0.175 | 0.218 |
| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 |
| 1.5/8 | | | | | | | | | | | | ●▲ | ●▲ | | | | |
| 1.3/4 | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 2 | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 2.1/4 | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ● | ●▲ |
| 2.1/2 | | | | | | | ●▲ | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 2.3/4 | | | | | | | | | | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ● | ●▲ |
| 3 | | | | | | | ●▲ | | | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ |
| 3.1/4 | | | | | | | | | | | | ●▲ | | | | | |
| 3.1/2 | | | | | | | | | | | ●▲ | ●▲ | ●▲ | | ● | | ●▲ |
| 4 | | | | | | | | | | | ●▲ | ●▲ | ●▲ | | ● | | ●▲ |
| 4.1/2 | | | | | | | | | | | | | | | ● | | ● |
| 5 | | | | | | | | | | | | | | | ● | | ● |
| 6 | | | | | | | | | | | | | | | ● | | ● |

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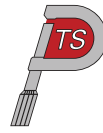
SENKSCRAUBEN MIT SCHLITZ, ANSI B18.6.3



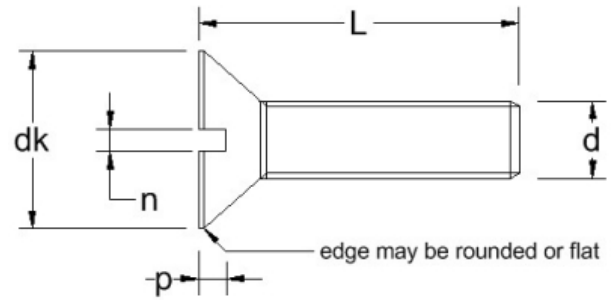
Material Grades: A2: ● A4: ▲

| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 2-64 | 4-40 | 5-40 | 6-32 | 6-40 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 |
|------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|--------|--------|---------|---------|
| 3/32 | ● | | | | | | | | | | | | | | | | |
| 1/8 | ● | ● | ● | ● | ● | ●▲ | | ●▲ | ● | | | | | | | | |
| 5/32 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | |
| 1/4 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | |
| 5/16 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | |
| 3/8 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ |
| 7/16 | ● | ● | ● | ● | ● | | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | |
| 1/2 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ |
| 9/16 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ |
| 3/4 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ |
| 7/8 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ |
| 1 | ● | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ |
| 1.1/4 | | | | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ● |

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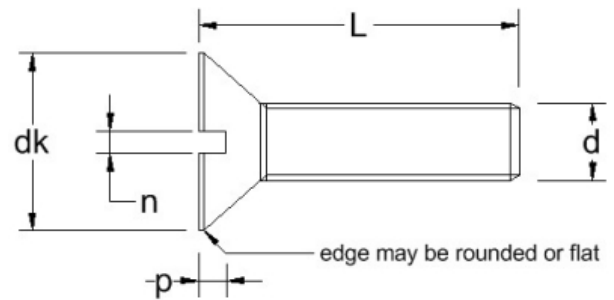


Material Grades: A2: ● A4: ▲

| dk (max) | 0.717 | 0.815 | 1.050 | | | | | | | | | | | | | | | | |
|------------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| k | 0.230 | 0.223 | 0.298 | | | | | | | | | | | | | | | | |
| L1 | 9/16 | 3/4 | * | | | | | | | | | | | | | | | | |
| n (max) | 0.094 | 0.106 | 0.133 | | | | | | | | | | | | | | | | |
| t (max) | 0.106 | 0.103 | 0.137 | | | | | | | | | | | | | | | | |
| length/dim | 3/8-16 | 1/2-13 | 5/8-11 | | | | | | | | | | | | | | | | |
| 3/32 | | | | | | | | | | | | | | | | | | | |
| 1/8 | | | | | | | | | | | | | | | | | | | |
| 5/32 | | | | | | | | | | | | | | | | | | | |
| 3/16 | | | | | | | | | | | | | | | | | | | |
| 1/4 | | | | | | | | | | | | | | | | | | | |
| 5/16 | | | | | | | | | | | | | | | | | | | |
| 3/8 | | | | | | | | | | | | | | | | | | | |
| 7/16 | | | | | | | | | | | | | | | | | | | |
| 1/2 | ● ▲ | | | | | | | | | | | | | | | | | | |
| 9/16 | | | | | | | | | | | | | | | | | | | |
| 5/8 | ● ▲ | ● ▲ | | | | | | | | | | | | | | | | | |
| 3/4 | ● ▲ | ● ▲ | | | | | | | | | | | | | | | | | |
| 7/8 | ● ▲ | ● ▲ | | | | | | | | | | | | | | | | | |
| 1 | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | | | | | | |
| 1.1/4 | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | | | | | | |

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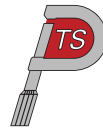
SENKSCRAUBEN MIT SCHLITZ, ANSI B18.6.3



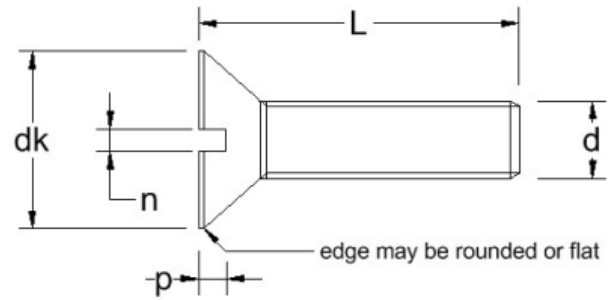
Material Grades: A2:● A4:▲

| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 2-64 | 4-40 | 5-40 | 6-32 | 6-40 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|
| dk (max) | 0.112 | 0.137 | 0.137 | 0.162 | 0.162 | 0.212 | 0.237 | 0.262 | 0.262 | 0.312 | 0.362 | 0.362 | 0.412 | 0.477 | 0.477 | 0.597 | 0.597 |
| k | 0.035 | 0.043 | 0.043 | 0.051 | 0.051 | 0.067 | 0.075 | 0.083 | 0.083 | 0.100 | 0.116 | 0.116 | 0.132 | 0.153 | 0.153 | 0.191 | 0.191 |
| L1 | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 | 3/16 | 3/16 | 3/16 | 3/16 | 1/4 | 5/16 | 5/16 | 3/8 | 7/16 | 7/16 | 1/2 | 1/2 |
| n (max) | 0.023 | 0.026 | 0.026 | 0.031 | 0.031 | 0.039 | 0.043 | 0.048 | 0.048 | 0.054 | 0.060 | 0.060 | 0.067 | 0.075 | 0.075 | 0.084 | 0.084 |
| t (max) | 0.015 | 0.019 | 0.019 | 0.023 | 0.023 | 0.030 | 0.034 | 0.038 | 0.038 | 0.045 | 0.053 | 0.053 | 0.060 | 0.070 | 0.070 | 0.088 | 0.088 |
| 1.1/2 | | | | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ● |
| 1.3/4 | | | | | | ●▲ | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ● |
| 2 | | | | | | ●▲ | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ● |
| 2.1/4 | | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | | ●▲ | | | |
| 2.1/2 | | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | ●▲ | |
| 2.3/4 | | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | | | | | |
| 3 | | | | | | | | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | ●▲ | |
| 3.1/2 | | | | | | | | | | | | | | ●▲ | | ●▲ | |
| 4 | | | | | | | | | | | | | | ●▲ | | ●▲ | |
| 4.1/2 | | | | | | | | | | | | | | | | ●▲ | |
| 5 | | | | | | | | | | | | | | | | ●▲ | |
| 6 | | | | | | | | | | | | | | | | ●▲ | |

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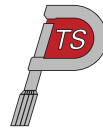
SENKSCRAUBEN MIT SCHLITZ, ANSI B18.6.3



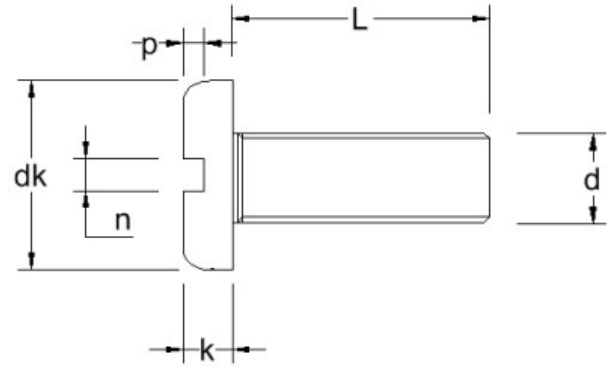
Material Grades: A2: ● A4: ▲

| length/dim | 3/8-16 | 1/2-13 | 5/8-11 | | | | | | | | | | | | | | | | | | | |
|------------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.717 | 0.815 | 1.050 | | | | | | | | | | | | | | | | | | | |
| k | 0.230 | 0.223 | 0.298 | | | | | | | | | | | | | | | | | | | |
| L1 | 9/16 | 3/4 | * | | | | | | | | | | | | | | | | | | | |
| n (max) | 0.094 | 0.106 | 0.133 | | | | | | | | | | | | | | | | | | | |
| t (max) | 0.106 | 0.103 | 0.137 | | | | | | | | | | | | | | | | | | | |
| 1.1/2 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 1.3/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 2 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 2.1/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 2.1/2 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 2.3/4 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 3.1/2 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 4.1/2 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |
| 6 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | | |

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FLACHKOPFSCHRAUBEN MIT SCHLITZ, ANSI B18.6.3



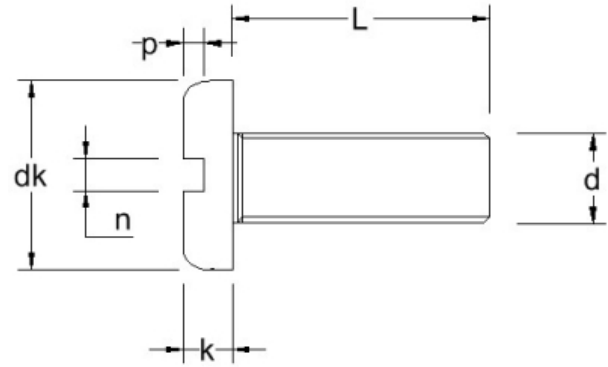
Material Grades: A2: ● A4: ▲

| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 3-48 | 4-40 | 4-48 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 3/8-16 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|--------|
| dk (max) | 0.116 | 0.142 | 0.142 | 0.167 | 0.193 | 0.219 | 0.219 | 0.245 | 0.270 | 0.322 | 0.373 | 0.373 | 0.425 | 0.492 | 0.492 | 0.615 | 0.740 |
| k (max) | 0.039 | 0.046 | 0.046 | 0.053 | 0.060 | 0.068 | 0.068 | 0.075 | 0.082 | 0.096 | 0.110 | 0.110 | 0.125 | 0.144 | 0.144 | 0.178 | 0.212 |
| n (max) | 0.023 | 0.026 | 0.026 | 0.031 | 0.035 | 0.039 | 0.039 | 0.043 | 0.048 | 0.054 | 0.060 | 0.060 | 0.067 | 0.075 | 0.075 | 0.084 | 0.094 |
| p (max) | 0.022 | 0.027 | 0.027 | 0.031 | 0.036 | 0.040 | 0.040 | 0.045 | 0.050 | 0.058 | 0.068 | 0.068 | 0.077 | 0.087 | 0.087 | 0.106 | 0.124 |
| 1/8 | ● | ● | ● | ● | ● | ●▲ | ● | | ●▲ | | | | | | | | |
| 3/16 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | |
| 1/4 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | | |
| 5/16 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | | |
| 3/8 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | |
| 7/16 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | | |
| 1/2 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ |
| 9/16 | ● | ● | ● | ● | | ●▲ | ● | ● | ●▲ | ●▲ | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ |
| 3/4 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ |
| 7/8 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ |
| 1 | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ |
| 1.1/8 | | | | | | ● | | | | | | | | | | | |
| 1.1/4 | | | | ● | ● | ● | | ● | ●▲ | ●▲ | ● | ● | ● | ●▲ | ● | ● | ● |
| 1.1/2 | | | | ● | ● | ● | | ● | ●▲ | ●▲ | ● | ● | ● | ●▲ | ● | ● | ● |
| 1.3/4 | | | | | | ● | | | ●▲ | ●▲ | ● | ● | ● | ●▲ | ● | ● | ● |

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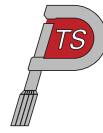
FLACHKOPFSCHRAUBEN MIT SCHLITZ, ANSI B18.6.3



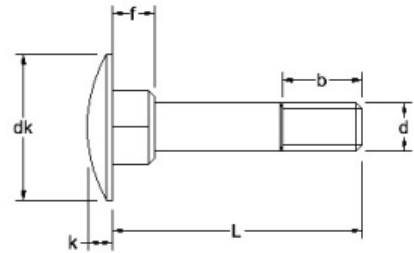
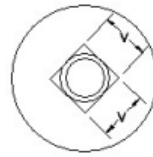
Material Grades: A2: ● A4: ▲

| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 3-48 | 4-40 | 4-48 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 3/8-16 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|--------|
| dk (max) | 0.116 | 0.142 | 0.142 | 0.167 | 0.193 | 0.219 | 0.219 | 0.245 | 0.270 | 0.322 | 0.373 | 0.373 | 0.425 | 0.492 | 0.492 | 0.615 | 0.740 |
| k (max) | 0.039 | 0.046 | 0.046 | 0.053 | 0.060 | 0.068 | 0.068 | 0.075 | 0.082 | 0.096 | 0.110 | 0.110 | 0.125 | 0.144 | 0.144 | 0.178 | 0.212 |
| n (max) | 0.023 | 0.026 | 0.026 | 0.031 | 0.035 | 0.039 | 0.039 | 0.043 | 0.048 | 0.054 | 0.060 | 0.060 | 0.067 | 0.075 | 0.075 | 0.084 | 0.094 |
| p (max) | 0.022 | 0.027 | 0.027 | 0.031 | 0.036 | 0.040 | 0.040 | 0.045 | 0.050 | 0.058 | 0.068 | 0.068 | 0.077 | 0.087 | 0.087 | 0.106 | 0.124 |
| 2 | | | | | | ● | | | ●▲ | ●▲ | ● | ● | ● | ●▲ | ● | ● | ● |
| 2.1/4 | | | | | | | | | ● | ● | ● | ● | | | | | |
| 2.1/2 | | | | | | | | | ● | ● | ● | ● | ● | ● | | ● | ● |
| 2.3/4 | | | | | | | | | ● | ● | ● | ● | | | | | |
| 3 | | | | | | | | | ● | ● | ● | ● | ● | ● | | ● | ● |
| 3.1/2 | | | | | | | | | | | | | | ● | | ● | ● |
| 4 | | | | | | | | | | | | | | ● | | ● | ● |
| 4.1/2 | | | | | | | | | | | | | | | | ● | |
| 5 | | | | | | | | | | | | | | | | ● | ● |
| 6 | | | | | | | | | | | | | | | | | ● |

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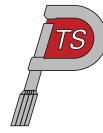
FLACHRUNDSCHRAUBEN MIT VIERKANTANSATZ, ANSI B18.5



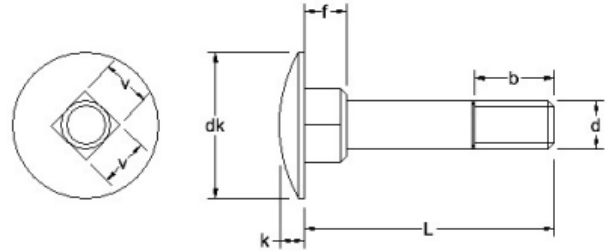
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|--------|---------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.594 | 0.719 | 0.844 | 1.094 | 1.344 | 1.594 | | | | | | | | | | | | | |
| f (max) | 0.156 | 0.187 | 0.219 | 0.281 | 0.344 | 0.406 | | | | | | | | | | | | | |
| k (max) | 0.145 | 0.176 | 0.208 | 0.270 | 0.344 | 0.406 | | | | | | | | | | | | | |
| v (max) | 0.260 | 0.324 | 0.388 | 0.515 | 0.642 | 0.768 | | | | | | | | | | | | | |
| length/dim | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | | | | | | | | | | | | | |
| 4.1/2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 5 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 5.1/2 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 6 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 6.1/2 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 7 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 7.1/2 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 8 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 8.1/2 | | ● | ● | ● | ● | | | | | | | | | | | | | | |
| 9 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 9.1/2 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 10 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 11 | | ● | ● | ● | | | | | | | | | | | | | | | |
| 12 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 14 | | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 16 | | | ● | ● | ● | ● | | | | | | | | | | | | | |

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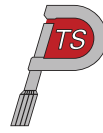
FLACHRUNDSCHRAUBEN MIT VIERKANTANSATZ, ANSI B18.5



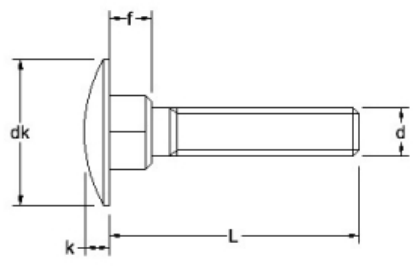
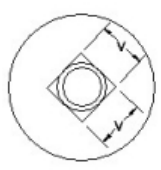
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|--------|---------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.594 | 0.719 | 0.844 | 1.094 | 1.344 | 1.594 | | | | | | | | | | | | | |
| f (max) | 0.156 | 0.187 | 0.219 | 0.281 | 0.344 | 0.406 | | | | | | | | | | | | | |
| k (max) | 0.145 | 0.176 | 0.208 | 0.270 | 0.344 | 0.406 | | | | | | | | | | | | | |
| v (max) | 0.260 | 0.324 | 0.388 | 0.515 | 0.642 | 0.768 | | | | | | | | | | | | | |
| length/dim | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | | | | | | | | | | | | | |
| 18 | | | ● | ● | ● | ● | | | | | | | | | | | | | |

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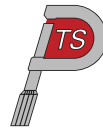
FLACHRUNDSCHRAUBEN, VIERKANTANSATZ MIT VOLLGEWINDE, ANSI B18.5



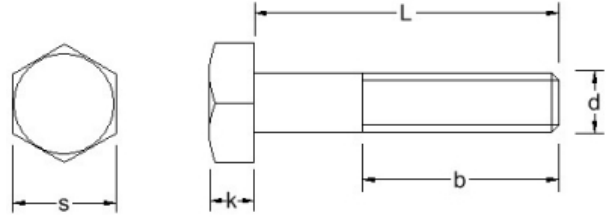
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | |
|------------|--------|---------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.594 | 0.719 | 0.844 | 1.094 | 1.344 | 1.594 | | | | | | | | | | | | |
| f (max) | 0.156 | 0.187 | 0.219 | 0.281 | 0.344 | 0.406 | | | | | | | | | | | | |
| k (max) | 0.145 | 0.176 | 0.208 | 0.270 | 0.344 | 0.406 | | | | | | | | | | | | |
| v (max) | 0.260 | 0.324 | 0.388 | 0.515 | 0.642 | 0.768 | | | | | | | | | | | | |
| length/dim | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | | | | | | | | | | | | |
| 1 | ● | ● | | | | | | | | | | | | | | | | |
| 1.1/4 | ● | ● | | | | | | | | | | | | | | | | |
| 1.1/2 | ● | ● | ● | ● | ● | | | | | | | | | | | | | |
| 2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 2.1/4 | | ● | | | | | | | | | | | | | | | | |
| 2.1/2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 2.3/4 | | ● | | | | | | | | | | | | | | | | |
| 3 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 3.1/2 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 4 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |

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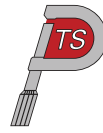
SECHSKANTSCHRAUBEN MIT SCHAFT, ANSI B18.2.1



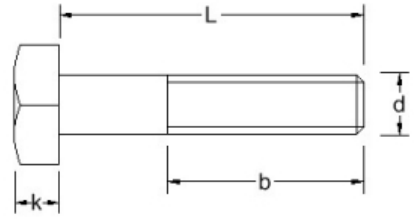
Material Grades: A2: ● A4: ▲

| k (max) | 0.163 | 0.163 | 0.211 | 0.211 | 0.243 | 0.243 | 0.291 | 0.291 | 0.323 | 0.323 | 0.371 | 0.371 | 0.403 | 0.403 | 0.483 | 0.483 | 0.563 |
|------------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|--------|--------|-------|
| s (max) | 0.438 | 0.438 | 0.500 | 0.500 | 0.562 | 0.562 | 0.625 | 0.625 | 0.750 | 0.750 | 0.812 | 0.812 | 0.938 | 0.938 | 1.125 | 1.125 | 1.312 |
| length/dim | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 9/16-12 | 9/16-18 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 |
| 1.1/4 | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 1.3/8 | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 1.1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 1.5/8 | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 1.3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | ▲ | | | |
| 2.1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | | | |
| 2.1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ |
| 2.3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ |
| 3 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ |
| 3.1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | | | ●▲ | | ●▲ | ● | ●▲ |
| 3.1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ |
| 3.3/4 | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | | | ●▲ | ●▲ | | | ●▲ | ●▲ | ●▲ | ● | |
| 4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ |
| 4.1/4 | | | | | | | | | | | | | | | ●▲ | | |
| 4.1/2 | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ▲ | ●▲ | ●▲ | ● | | ●▲ | ● | ●▲ | ● | ●▲ |
| 5 | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ● | | ●▲ | ● | ●▲ | ● | ●▲ |
| 5.1/2 | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ● | | | ●▲ | ● | ●▲ | ● | ●▲ |

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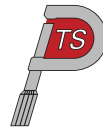
SECHSKANTSCHRAUBEN MIT SCHAFT, ANSI B18.2.1



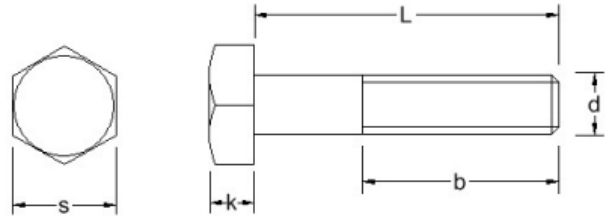
Material Grades: A2: ● A4: ▲

| k (max) | 0.563 | 0.627 | | | | | | | | | | | | | | | | | | |
|------------|--------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| s (max) | 1.312 | 1.500 | | | | | | | | | | | | | | | | | | |
| length/dim | 7/8-14 | 1-8 | | | | | | | | | | | | | | | | | | |
| 1.1/4 | | | | | | | | | | | | | | | | | | | | |
| 1.3/8 | | | | | | | | | | | | | | | | | | | | |
| 1.1/2 | | | | | | | | | | | | | | | | | | | | |
| 1.5/8 | | | | | | | | | | | | | | | | | | | | |
| 1.3/4 | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | |
| 2.1/4 | | | | | | | | | | | | | | | | | | | | |
| 2.1/2 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 2.3/4 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 3 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 3.1/4 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 3.1/2 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 3.3/4 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 4 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 4.1/4 | | | | | | | | | | | | | | | | | | | | |
| 4.1/2 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 5 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 5.1/2 | ● | ●▲ | | | | | | | | | | | | | | | | | | |

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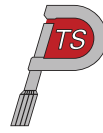
SECHSKANTSCHRAUBEN MIT SCHAFT, ANSI B18.2.1



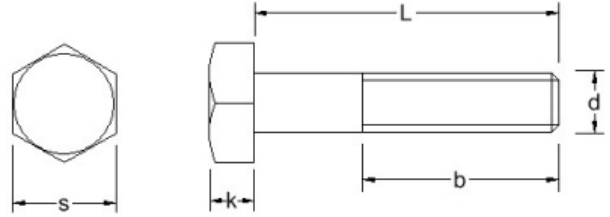
Material Grades: A2: ● A4: ▲

| k (max) | 0.163 | 0.163 | 0.211 | 0.211 | 0.243 | 0.243 | 0.291 | 0.291 | 0.323 | 0.323 | 0.371 | 0.371 | 0.403 | 0.403 | 0.483 | 0.483 | 0.563 |
|------------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|--------|--------|-------|
| s (max) | 0.438 | 0.438 | 0.500 | 0.500 | 0.562 | 0.562 | 0.625 | 0.625 | 0.750 | 0.750 | 0.812 | 0.812 | 0.938 | 0.938 | 1.125 | 1.125 | 1.312 |
| length/dim | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 9/16-12 | 9/16-18 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 |
| 6 | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ● | | | ●▲ | ● | ●▲ | ● | ●▲ |
| 6.1/2 | | | | | ●▲ | | | | ▲ | | | | ●▲ | | ●▲ | | |
| 7 | ●▲ | | ●▲ | | ●▲ | | | | ●▲ | | | | ●▲ | | ●▲ | | ●▲ |
| 7.1/2 | | | | | ●▲ | | | | ●▲ | | | | | | | | |
| 8 | ●▲ | | ●▲ | | ●▲ | | | | ●▲ | | | | ●▲ | | ●▲ | | ●▲ |
| 8.1/2 | | | | | ●▲ | | | | ●▲ | | | | | | | | |
| 9 | ●▲ | | ●▲ | | ●▲ | | | | ●▲ | | | | ●▲ | | ●▲ | | ●▲ |
| 10 | ●▲ | | ●▲ | | ●▲ | | | | ●▲ | | | | ●▲ | | ●▲ | | ●▲ |
| 11 | ● | | ● | | ● | | | | ●▲ | | | | ●▲ | | ●▲ | | ●▲ |
| 12 | ● | | ● | | ● | | | | ●▲ | | | | ●▲ | | ●▲ | | ●▲ |
| 14 | | | | | ● | | | | ●▲ | | | | ●▲ | | ●▲ | | ●▲ |
| 16 | | | | | ● | | | | ● | | | | ●▲ | | ●▲ | | ● |
| 18 | | | | | | | | | ● | | | | ● | | ●▲ | | ● |
| 20 | | | | | | | | | ● | | | | ● | | ● | | ● |

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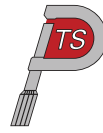
SECHSKANTSCHRAUBEN MIT SCHAFT, ANSI B18.2.1



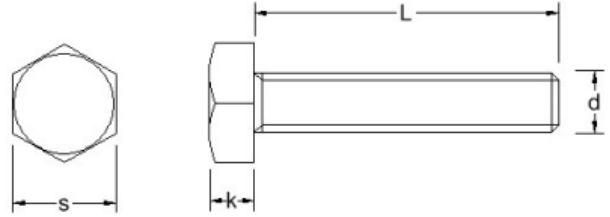
Material Grades: A2: ● A4: ▲

| k (max) | 0.563 | 0.627 | | | | | | | | | | | | | | | | | | |
|------------|--------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| s (max) | 1.312 | 1.500 | | | | | | | | | | | | | | | | | | |
| length/dim | 7/8-14 | 1-8 | | | | | | | | | | | | | | | | | | |
| 6 | ● | ●▲ | | | | | | | | | | | | | | | | | | |
| 6.1/2 | | ●▲ | | | | | | | | | | | | | | | | | | |
| 7 | | ●▲ | | | | | | | | | | | | | | | | | | |
| 7.1/2 | | | | | | | | | | | | | | | | | | | | |
| 8 | | ●▲ | | | | | | | | | | | | | | | | | | |
| 8.1/2 | | | | | | | | | | | | | | | | | | | | |
| 9 | | ●▲ | | | | | | | | | | | | | | | | | | |
| 10 | | ●▲ | | | | | | | | | | | | | | | | | | |
| 11 | | ●▲ | | | | | | | | | | | | | | | | | | |
| 12 | | ●▲ | | | | | | | | | | | | | | | | | | |
| 14 | | ●▲ | | | | | | | | | | | | | | | | | | |
| 16 | | ● | | | | | | | | | | | | | | | | | | |
| 18 | | ● | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | |

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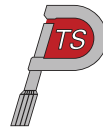
SECHSKANTSCHRAUBEN MIT VOLLGEWINDE, ANSI B18.2.1



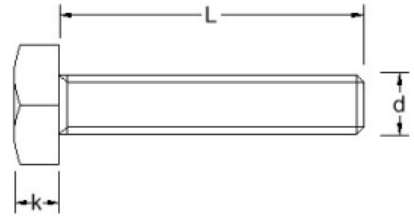
Material Grades: A2: ● A4: ▲

| k (max) | 0.060 | 0.093 | 0.110 | 0.120 | 0.120 | 0.155 | 0.163 | 0.163 | 0.211 | 0.211 | 0.243 | 0.243 | 0.291 | 0.291 | 0.323 | 0.323 | 0.371 |
|------------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|
| s (max) | 0.188 | 0.250 | 0.250 | 0.312 | 0.312 | 0.312 | 0.438 | 0.438 | 0.500 | 0.500 | 0.562 | 0.562 | 0.625 | 0.625 | 0.750 | 0.750 | 0.812 |
| length/dim | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 9/16-12 |
| 1/4 | ● | ● | ● | | ● | | | | | | | | | | | | |
| 5/16 | ● | ●▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | |
| 3/8 | ● | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ● | ● | | ● | | | | | | |
| 7/16 | ● | ●▲ | ●▲ | | | | ●▲ | | | | | | | | | | |
| 1/2 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | ● | ●▲ | |
| 9/16 | ● | ●▲ | ●▲ | | | | | | | | | | | | | | |
| 5/8 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | ● | | |
| 3/4 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | |
| 7/8 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | |
| 1 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 1.1/8 | | | | | | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | ●▲ | | |
| 1.1/4 | | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 1.1/2 | | ●▲ | ●▲ | ●▲ | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 1.3/4 | | | ● | ● | ● | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ▲ | ●▲ | ●▲ | ●▲ |
| 2 | | | ● | ● | ● | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 2.1/4 | | | | ● | ● | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | | ●▲ | ●▲ | ● | |
| 2.1/2 | | | | ● | ● | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ●▲ | ● | |
| 2.3/4 | | | | | ● | | ●▲ | ● | ● | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | |

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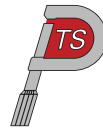
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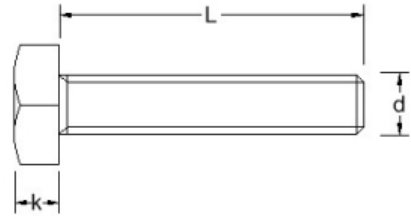
Material Grades: A2: ● A4: ▲

| k (max) | 0.371 | 0.403 | 0.403 | 0.483 | 0.483 | 0.563 | 0.563 | 0.627 | 0.627 | | | | | | | | | | |
|------------|---------|--------|--------|--------|--------|-------|--------|-------|-------|----|--|--|--|--|--|--|--|--|--|
| s (max) | 0.812 | 0.938 | 0.938 | 1.125 | 1.125 | 1.312 | 1.312 | 1.500 | 1.500 | | | | | | | | | | |
| length/dim | 9/16-18 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 | 7/8-14 | 1-8 | 1-12 | | | | | | | | | | |
| 1/4 | | | | | | | | | | | | | | | | | | | |
| 5/16 | | | | | | | | | | | | | | | | | | | |
| 3/8 | | | | | | | | | | | | | | | | | | | |
| 7/16 | | | | | | | | | | | | | | | | | | | |
| 1/2 | | | | | | | | | | | | | | | | | | | |
| 9/16 | | | | | | | | | | | | | | | | | | | |
| 5/8 | | | | | | | | | | | | | | | | | | | |
| 3/4 | | ●▲ | | | | | | | | | | | | | | | | | |
| 7/8 | | | | | | | | | | | | | | | | | | | |
| 1 | ▲ | ●▲ | ●▲ | ● | | | | | | | | | | | | | | | |
| 1.1/8 | | | | | | | | | | | | | | | | | | | |
| 1.1/4 | ▲ | ●▲ | ●▲ | ●▲ | ▲ | | | | | | | | | | | | | | |
| 1.1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 1.3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ▲ | ▲ | | | | | | | | | | |
| 2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 2.1/4 | | ●▲ | ▲ | ●▲ | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 2.1/2 | | ▲ | ▲ | ●▲ | | | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | |
| 2.3/4 | | ●▲ | | ●▲ | | | ●▲ | | ●▲ | ●▲ | | | | | | | | | |

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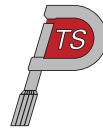
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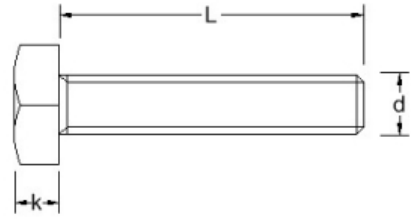
Material Grades: A2: ● A4: ▲

| k (max) | 0.060 | 0.093 | 0.110 | 0.120 | 0.120 | 0.155 | 0.163 | 0.163 | 0.211 | 0.211 | 0.243 | 0.243 | 0.291 | 0.291 | 0.323 | 0.323 | 0.371 |
|------------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|
| s (max) | 0.188 | 0.250 | 0.250 | 0.312 | 0.312 | 0.312 | 0.438 | 0.438 | 0.500 | 0.500 | 0.562 | 0.562 | 0.625 | 0.625 | 0.750 | 0.750 | 0.812 |
| length/dim | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 9/16-12 |
| 3 | | | | | ● | | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | |
| 3.1/4 | | | | | | | | | ●▲ | | ●▲ | | | | ●▲ | ● | |
| 3.1/2 | | | | | | | ●▲ | | ●▲ | | ●▲ | | ●▲ | ● | ●▲ | ● | |
| 3.3/4 | | | | | | | | | ●▲ | | | | | | | | |
| 4 | | | | | | | ●▲ | | ●▲ | | ●▲ | | ●▲ | ● | ●▲ | ● | |
| 4.1/2 | | | | | | | ●▲ | | ●▲ | | ●▲ | | | | ●▲ | ● | |
| 5 | | | | | | | ●▲ | | ●▲ | | ●▲ | | ●▲ | | ●▲ | ● | |
| 5.1/2 | | | | | | | | | | | | | | | ●▲ | ● | |
| 6 | | | | | | | ●▲ | | ●▲ | | ●▲ | | | | ●▲ | ● | |
| 7 | | | | | | | | | ▲ | | ●▲ | | | | ●▲ | | |
| 8 | | | | | | | | | ▲ | | ●▲ | | | | ●▲ | | |
| 9 | | | | | | | | | | | ● | | | | ● | | |
| 10 | | | | | | | | | | | | | | | ● | | |
| 11 | | | | | | | | | | | | | | | ● | | |
| 12 | | | | | | | | | | | | | | | ● | | |

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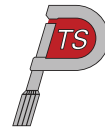
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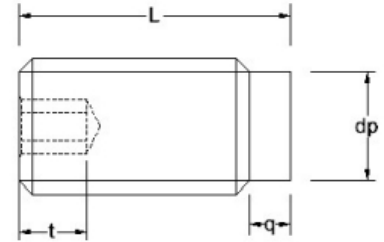
Material Grades: A2: ● A4: ▲

| k (max) | 0.371 | 0.403 | 0.403 | 0.483 | 0.483 | 0.563 | 0.563 | 0.627 | 0.627 | | | | | | | | | |
|------------|---------|--------|--------|--------|--------|-------|--------|-------|-------|--|--|--|--|--|--|--|--|--|
| s (max) | 0.812 | 0.938 | 0.938 | 1.125 | 1.125 | 1.312 | 1.312 | 1.500 | 1.500 | | | | | | | | | |
| length/dim | 9/16-18 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 | 7/8-14 | 1-8 | 1-12 | | | | | | | | | |
| 3 | | ●▲ | | ●▲ | | ●▲ | | ●▲ | ●▲ | | | | | | | | | |
| 3.1/4 | | | | | | | | ●▲ | ●▲ | | | | | | | | | |
| 3.1/2 | | ●▲ | | ●▲ | | ●▲ | | ●▲ | ●▲ | | | | | | | | | |
| 3.3/4 | | | | | | | | | | | | | | | | | | |
| 4 | | ●▲ | | ●▲ | | ●▲ | | ●▲ | | | | | | | | | | |
| 4.1/2 | | ●▲ | | ●▲ | | ●▲ | | ●▲ | | | | | | | | | | |
| 5 | | ●▲ | | ●▲ | | ●▲ | | ●▲ | | | | | | | | | | |
| 5.1/2 | | | | ●▲ | | ●▲ | | | | | | | | | | | | |
| 6 | | ●▲ | | ●▲ | | ●▲ | | ●▲ | | | | | | | | | | |
| 7 | | ●▲ | | ●▲ | | ● | | ● | | | | | | | | | | |
| 8 | | ●▲ | | ●▲ | | ● | | ● | | | | | | | | | | |
| 9 | | ● | | ● | | ● | | ● | | | | | | | | | | |
| 10 | | ● | | ● | | ● | | ● | | | | | | | | | | |
| 11 | | ● | | ● | | ● | | ● | | | | | | | | | | |
| 12 | | ● | | ● | | ● | | ● | | | | | | | | | | |

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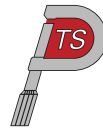
GEWINDESTIFTE MIT INNENSECHSKANT UND ZAPFEN, ANSI B18.3



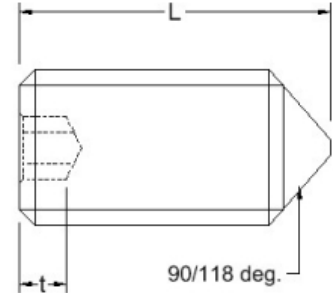
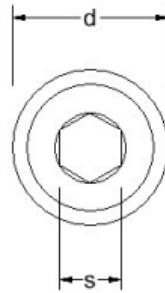
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|--------|---------|--------|--|--|--|--|--|--|--|--|--|--|
| dp (max) | 0.057 | 0.075 | 0.092 | 0.109 | 0.127 | 0.127 | 0.156 | 0.203 | 0.250 | | | | | | | | | | |
| q (max) | 0.024 | 0.030 | 0.038 | 0.043 | 0.049 | 0.049 | 0.067 | 0.082 | 0.099 | | | | | | | | | | |
| s | 0.035 | 0.050 | 1/16 | 5/64 | 3/32 | 3/32 | 1/8 | 5/32 | 3/16 | | | | | | | | | | |
| t (min) | 0.060 | 0.070 | 0.080 | 0.090 | 0.100 | 0.100 | 0.125 | 0.156 | 0.188 | | | | | | | | | | |
| length/dim | 2-56 | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 5/16-18 | 3/8-16 | | | | | | | | | | |
| 1/8 | ● | ● | | | | | | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ● | | | | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 5/16 | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | |
| 3/8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 7/16 | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1/2 | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 5/8 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 3/4 | | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 7/8 | | | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1 | | | | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/4 | | | | | | | ● | ● | ● | | | | | | | | | | |
| 1.1/2 | | | | | | | ● | ● | ● | | | | | | | | | | |
| 1.3/4 | | | | | | | ● | ● | ● | | | | | | | | | | |
| 2 | | | | | | | ● | ● | ● | | | | | | | | | | |

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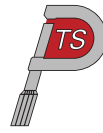
GEWINDESTIFTE MIT INNENSECHSKANT UND SPITZE, ANSI B18.3



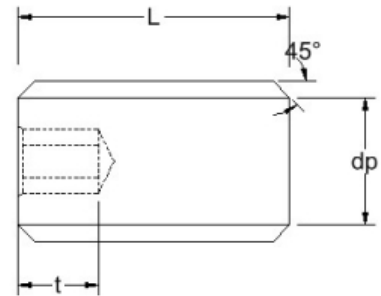
Material Grades: A2: ● A4: ▲

| L1 * | 0.13 | 0.13 | 0.19 | 0.19 | 0.19 | 0.25 | 0.25 | 0.25 | 0.31 | 0.31 | 0.38 | 0.38 | 0.44 | 0.44 | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|--|--|--|
| s | 0.035 | 0.050 | 0.050 | 1/16 | 1/16 | 5/64 | 3/32 | 3/32 | 1/8 | 1/8 | 5/32 | 5/32 | 3/16 | 3/16 | | | |
| t (min) | 0.060 | 0.070 | 0.070 | 0.080 | 0.080 | 0.090 | 0.100 | 0.100 | 0.125 | 0.125 | 0.156 | 0.156 | 0.188 | 0.188 | | | |
| length/dim | 2-56 | 3-48 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | | | |
| 1/8 | ●▲ | ● | ●▲ | | | | | | | | | | | | | | |
| 3/16 | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | | | |
| 1/4 | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | |
| 5/16 | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | |
| 3/8 | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | | | |
| 7/16 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | | | |
| 1/2 | | | ●▲ | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | | | |
| 5/8 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ▲ | ●▲ | ● | ●▲ | ● | | | |
| 3/4 | | | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ▲ | ●▲ | ● | ●▲ | ● | | | |
| 7/8 | | | | | | | ▲ | ▲ | ●▲ | ▲ | ●▲ | ● | ●▲ | ● | | | |
| 1 | | | | | | | ▲ | ▲ | ●▲ | ▲ | ●▲ | ● | ●▲ | ● | | | |
| 1.1/4 | | | | | | | | | ●▲ | | ●▲ | | ●▲ | | | | |
| 1.1/2 | | | | | | | | | ●▲ | | ●▲ | | ●▲ | | | | |
| 1.3/4 | | | | | | | | | | | ▲ | | ●▲ | | | | |
| 2 | | | | | | | | | | | ▲ | | ●▲ | | | | |

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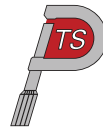
GEWINDESTIFTE MIT INNENSECHSKANT UND KEGELKUPPE, ANSI B18.3



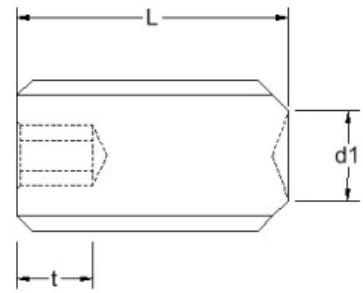
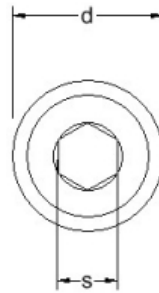
Material Grades: A2: ● A4: ▲

| dp(max) | 0.047 | 0.061 | 0.074 | 0.087 | 0.102 | 0.102 | 0.132 | 0.132 | 0.172 | 0.212 | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|--------|--------|---------|--------|--|--|--|--|--|--|
| s | 0.035 | 0.050 | 1/16 | 5/64 | 3/32 | 3/32 | 1/8 | 1/8 | 5/32 | 3/16 | | | | | | |
| t (min) | 0.060 | 0.070 | 0.080 | 0.090 | 0.100 | 0.100 | 0.125 | 0.125 | 0.156 | 0.188 | | | | | | |
| length/dim | 2-56 | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 3/8-16 | | | | | | |
| 1/8 | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | |
| 3/16 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1/4 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | |
| 5/16 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | | | | | |
| 3/8 | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | |
| 7/16 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | |
| 1/2 | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | |
| 5/8 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | |
| 3/4 | | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | |
| 7/8 | | | | ● | ● | ● | ●▲ | ●▲ | | ● | | | | | | |
| 1 | | | | ● | ● | ● | ●▲ | ●▲ | ● | ● | | | | | | |
| 1.1/4 | | | | | | | ● | | ● | ● | | | | | | |
| 1.1/2 | | | | | | | ● | | ● | ● | | | | | | |
| 1.3/4 | | | | | | | | | | ● | | | | | | |
| 2 | | | | | | | | | | ● | | | | | | |

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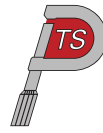
GEWINDESTIFTE MIT INNENSECHSKANT UND RINGSCHNITT, ANSI B18.3



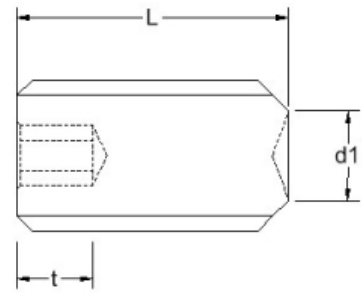
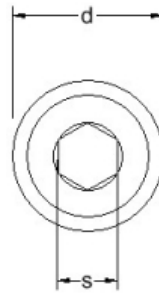
Material Grades: A2: ● A4: ▲

| d1 (max) | 0.033 | 0.040 | 0.047 | 0.054 | 0.054 | 0.061 | 0.061 | 0.067 | 0.074 | 0.074 | 0.087 | 0.087 | 0.102 | 0.102 | 0.132 | 0.132 | 0.172 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| s | 0.028 | 0.028 | 0.035 | 0.050 | 0.050 | 0.050 | 0.050 | 1/16 | 1/16 | 1/16 | 5/64 | 5/64 | 3/32 | 3/32 | 1/8 | 1/8 | 5/32 |
| t (min) | 0.050 | 0.060 | 0.060 | 0.070 | 0.070 | 0.070 | 0.070 | 0.080 | 0.080 | 0.080 | 0.090 | 0.090 | 0.100 | 0.100 | 0.125 | 0.125 | 0.156 |
| length/dim | 0-80 | 1-72 | 2-56 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 6-40 | 8-32 | 8-36 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 |
| 1/16 | ● | ● | ●▲ | | | | | | | | | | | | | | |
| 3/32 | ● | ● | ●▲ | ● | ● | ●▲ | ● | | | | | | | | | | |
| 1/8 | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | | | |
| 5/32 | ● | | | | | ●▲ | ● | | | | | | | | | | |
| 3/16 | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | |
| 7/32 | ● | | | | | | | | | | | | | | | | |
| 1/4 | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 5/16 | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 3/8 | ● | ● | ●▲ | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 7/16 | ● | | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 1/2 | ● | | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 5/8 | | | ● | | | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 3/4 | | | ● | | | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 7/8 | | | ● | | | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 1 | | | ● | | | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |
| 1.1/4 | | | | | | ● | | | ●▲ | | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ |
| 1.1/2 | | | | | | ● | | | ●▲ | | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ |

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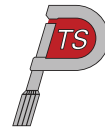
GEWINDESTIFTE MIT INNENSECHSKANT UND RINGSCHNITT, ANSI B18.3



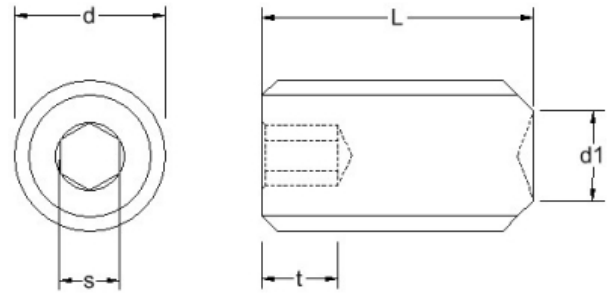
Material Grades: A2: ● A4: ▲

| d1 (max) | 0.172 | 0.212 | 0.212 | 0.252 | 0.252 | 0.291 | 0.291 | 0.371 | 0.450 | | | | | | | | | | |
|------------|---------|--------|--------|---------|---------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|
| s | 5/32 | 3/16 | 3/16 | 7/32 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | | | | | | | | | | |
| t (min) | 0.156 | 0.188 | 0.188 | 0.219 | 0.219 | 0.250 | 0.250 | 0.312 | 0.375 | | | | | | | | | | |
| length/dim | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 5/8-11 | 3/4-10 | | | | | | | | | | |
| 1/16 | | | | | | | | | | | | | | | | | | | |
| 3/32 | | | | | | | | | | | | | | | | | | | |
| 1/8 | | | | | | | | | | | | | | | | | | | |
| 5/32 | | | | | | | | | | | | | | | | | | | |
| 3/16 | | | | | | | | | | | | | | | | | | | |
| 7/32 | | | | | | | | | | | | | | | | | | | |
| 1/4 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 5/16 | ●▲ | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ●▲ | | | | | | | | | | | | |
| 7/16 | ●▲ | ●▲ | ●▲ | ● | ● | | | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/4 | ● | ●▲ | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |
| 1.1/2 | ● | ●▲ | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | |

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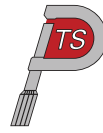
GEWINDESTIFTE MIT INNENSECHSKANT UND RINGSCHNEIDE, ANSI B18.3



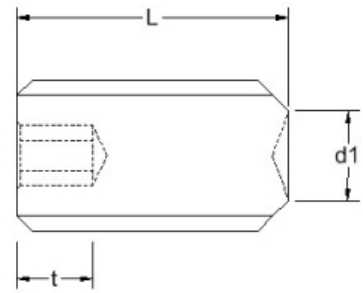
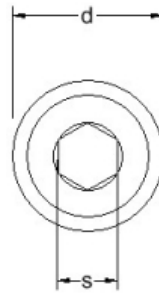
Material Grades: A2: ● A4: ▲

| d1 (max) | 0.033 | 0.040 | 0.047 | 0.054 | 0.054 | 0.061 | 0.061 | 0.067 | 0.074 | 0.074 | 0.087 | 0.087 | 0.102 | 0.102 | 0.132 | 0.132 | 0.172 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| s | 0.028 | 0.028 | 0.035 | 0.050 | 0.050 | 0.050 | 0.050 | 1/16 | 1/16 | 1/16 | 5/64 | 5/64 | 3/32 | 3/32 | 1/8 | 1/8 | 5/32 |
| t (min) | 0.050 | 0.060 | 0.060 | 0.070 | 0.070 | 0.070 | 0.070 | 0.080 | 0.080 | 0.080 | 0.090 | 0.090 | 0.100 | 0.100 | 0.125 | 0.125 | 0.156 |
| length/dim | 0-80 | 1-72 | 2-56 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 6-40 | 8-32 | 8-36 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 |
| 1.3/4 | | | | | | | | | ● | | ● | | ● | ● | ●▲ | ● | ●▲ |
| 2 | | | | | | | | | ● | | ● | | ● | ● | ●▲ | ● | ●▲ |
| 2.1/2 | | | | | | | | | | | | | | | ● | | ● |
| 3 | | | | | | | | | | | | | | | ● | | ● |
| 3.1/2 | | | | | | | | | | | | | | | | | ● |
| 4 | | | | | | | | | | | | | | | | | ● |

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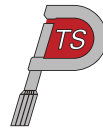
GEWINDESTIFTE MIT INNENSECHSKANT UND RINGSCHNEIDE, ANSI B18.3



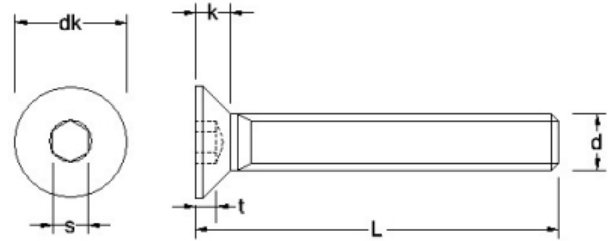
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|---------|--------|--------|---------|---------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|
| d1 (max) | 0.172 | 0.212 | 0.212 | 0.252 | 0.252 | 0.291 | 0.291 | 0.371 | 0.450 | | | | | | | | | |
| s | 5/32 | 3/16 | 3/16 | 7/32 | 7/32 | 1/4 | 1/4 | 5/16 | 3/8 | | | | | | | | | |
| t (min) | 0.156 | 0.188 | 0.188 | 0.219 | 0.219 | 0.250 | 0.250 | 0.312 | 0.375 | | | | | | | | | |
| length/dim | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 5/8-11 | 3/4-10 | | | | | | | | | |
| 1.3/4 | ● | ●▲ | ● | ● | ● | ●▲ | ● | | ●▲ | | | | | | | | | |
| 2 | ● | ●▲ | ● | ● | ● | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | |
| 2.1/2 | | ● | | | | ● | ● | ●▲ | ●▲ | | | | | | | | | |
| 3 | | ● | | | | ● | ● | ●▲ | ●▲ | | | | | | | | | |
| 3.1/2 | | ● | | | | ● | | | ●▲ | | | | | | | | | |
| 4 | | ● | | | | ● | | | ●▲ | | | | | | | | | |

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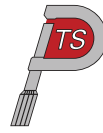
SENKSCHRAUBEN MIT INNENSECHSKANT, ANSI B18.3



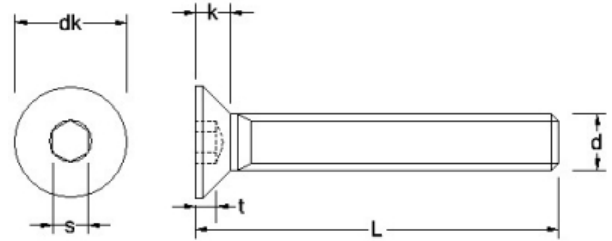
Material Grades: A2: ● A4: ▲

| length/dim | 0-80 | 1-72 | 2-56 | 4-40 | 5-40 | 6-32 | 6-40 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|
| dk (max) | 0.138 | 0.168 | 0.197 | 0.255 | 0.281 | 0.307 | 0.307 | 0.359 | 0.411 | 0.411 | 0.531 | 0.531 | 0.656 | 0.656 | 0.781 | 0.781 | 0.844 |
| k (max) | 0.044 | 0.054 | 0.064 | 0.083 | 0.090 | 0.097 | 0.097 | 0.112 | 0.127 | 0.127 | 0.161 | 0.161 | 0.198 | 0.198 | 0.234 | 0.234 | 0.234 |
| s | 0.035 | 0.050 | 0.050 | 1/16 | 5/64 | 5/64 | 5/64 | 3/32 | 1/8 | 1/8 | 5/32 | 5/32 | 3/16 | 3/16 | 7/32 | 7/32 | 1/4 |
| t (min) | 0.025 | 0.031 | 0.038 | 0.055 | 0.061 | 0.066 | 0.066 | 0.076 | 0.087 | 0.087 | 0.111 | 0.111 | 0.135 | 0.135 | 0.159 | 0.159 | 0.159 |
| 1/8 | ● | ● | ● | | | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ▲ | | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | ▲ | ● | ▲ | ● | ▲ | ● | ● | | | | | | | |
| 5/16 | | | ● | ▲ | ● | ▲ | | ▲ | ● | ● | | | | | | | |
| 3/8 | ● | ● | ● | ▲ | ● | ▲ | ● | ▲ | ▲ | ▲ | ▲ | ● | | | | | |
| 7/16 | ● | ● | ● | ▲ | ● | ▲ | | ▲ | ▲ | ▲ | ▲ | ● | | | | | |
| 1/2 | ● | ● | ● | ▲ | ● | ▲ | ● | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ● | ● | | |
| 5/8 | ● | ● | ● | ▲ | ● | ▲ | | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ● | ● | | |
| 3/4 | | ● | ● | ▲ | ● | ▲ | ● | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ● | ▲ | ● | |
| 7/8 | | | ● | ● | | ● | | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ● | ▲ | ● | |
| 1 | | | ● | ● | | ● | ● | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ● | ▲ | ● | ● |
| 1.1/4 | | | | ● | | ● | | ● | ● | ▲ | ▲ | ● | ▲ | ● | ▲ | ● | ● |
| 1.1/2 | | | | ● | | ● | | ● | ● | ▲ | ▲ | ● | ▲ | ● | ▲ | ● | ● |
| 1.3/4 | | | | | | ● | | ● | ● | ● | ▲ | ● | ▲ | ● | ▲ | ● | ● |
| 2 | | | | | | ● | | ● | ● | ● | ▲ | ● | ▲ | ● | ▲ | ● | ● |
| 2.1/4 | | | | | | | | | | | ▲ | ● | ▲ | ● | ▲ | ● | ● |

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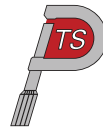
SENKSCHRAUBEN MIT INNENSECHSKANT, ANSI B18.3



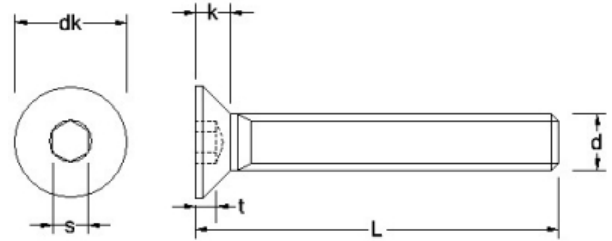
Material Grades: A2: ● A4: ▲

| length/dim | 1/2-13 | 1/2-20 | 5/8-11 | 3/4-10 | 7/8-9 | | | | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.938 | 0.938 | 1.188 | 1.438 | 1.688 | | | | | | | | | | | | | | | |
| k (max) | 0.251 | 0.251 | 0.324 | 0.396 | 0.468 | | | | | | | | | | | | | | | |
| s | 5/16 | 5/16 | 3/8 | 1/2 | 9/16 | | | | | | | | | | | | | | | |
| t (min) | 0.172 | 0.172 | 0.220 | 0.220 | 0.248 | | | | | | | | | | | | | | | |
| 1/8 | | | | | | | | | | | | | | | | | | | | |
| 3/16 | | | | | | | | | | | | | | | | | | | | |
| 1/4 | | | | | | | | | | | | | | | | | | | | |
| 5/16 | | | | | | | | | | | | | | | | | | | | |
| 3/8 | | | | | | | | | | | | | | | | | | | | |
| 7/16 | | | | | | | | | | | | | | | | | | | | |
| 1/2 | | | | | | | | | | | | | | | | | | | | |
| 5/8 | | | | | | | | | | | | | | | | | | | | |
| 3/4 | ●▲ | ● | | | | | | | | | | | | | | | | | | |
| 7/8 | ●▲ | ● | | | | | | | | | | | | | | | | | | |
| 1 | ●▲ | ● | ●▲ | ▲ | | | | | | | | | | | | | | | | |
| 1.1/4 | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 1.1/2 | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 1.3/4 | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 2 | ●▲ | ● | ●▲ | ●▲ | | | | | | | | | | | | | | | | |
| 2.1/4 | ●▲ | ● | | | | | | | | | | | | | | | | | | |

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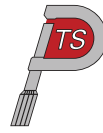
SENKSCHRAUBEN MIT INNENSECHSKANT, ANSI B18.3



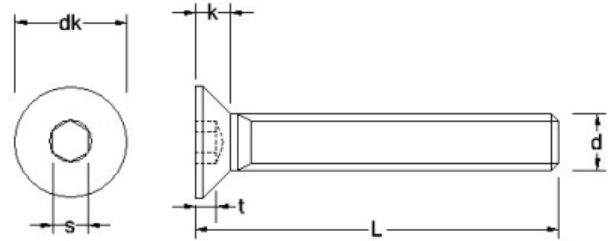
Material Grades: A2: ● A4: ▲

| length/dim | 0-80 | 1-72 | 2-56 | 4-40 | 5-40 | 6-32 | 6-40 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|
| dk (max) | 0.138 | 0.168 | 0.197 | 0.255 | 0.281 | 0.307 | 0.307 | 0.359 | 0.411 | 0.411 | 0.531 | 0.531 | 0.656 | 0.656 | 0.781 | 0.781 | 0.844 |
| k (max) | 0.044 | 0.054 | 0.064 | 0.083 | 0.090 | 0.097 | 0.097 | 0.112 | 0.127 | 0.127 | 0.161 | 0.161 | 0.198 | 0.198 | 0.234 | 0.234 | 0.234 |
| s | 0.035 | 0.050 | 0.050 | 1/16 | 5/64 | 5/64 | 5/64 | 3/32 | 1/8 | 1/8 | 5/32 | 5/32 | 3/16 | 3/16 | 7/32 | 7/32 | 1/4 |
| t (min) | 0.025 | 0.031 | 0.038 | 0.055 | 0.061 | 0.066 | 0.066 | 0.076 | 0.087 | 0.087 | 0.111 | 0.111 | 0.135 | 0.135 | 0.159 | 0.159 | 0.159 |
| 2.1/2 | | | | | | | | | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ● | ● |
| 2.3/4 | | | | | | | | | | | | | | | ●▲ | ● | ● |
| 3 | | | | | | | | | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ● | ● |
| 3.1/2 | | | | | | | | | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ● |
| 4 | | | | | | | | | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ● |
| 4.1/2 | | | | | | | | | | | ● | | ● | | ●▲ | | |
| 5 | | | | | | | | | | | ● | | ● | | ●▲ | | |
| 5.1/2 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | ● | | ● | | ●▲ | | |
| 7 | | | | | | | | | | | | | | | ● | | |
| 8 | | | | | | | | | | | | | | | ● | | |
| 9 | | | | | | | | | | | | | | | ● | | |
| 10 | | | | | | | | | | | | | | | ● | | |

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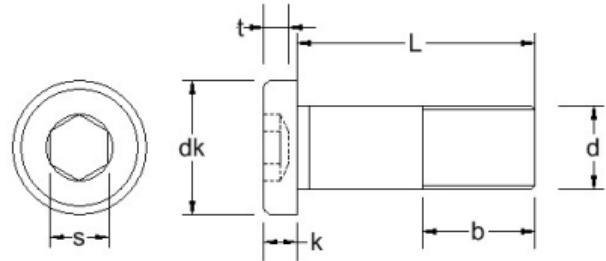


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.938 | 0.938 | 1.188 | 1.438 | 1.688 | | | | | | | | | | | | | | |
| k (max) | 0.251 | 0.251 | 0.324 | 0.396 | 0.468 | | | | | | | | | | | | | | |
| s | 5/16 | 5/16 | 3/8 | 1/2 | 9/16 | | | | | | | | | | | | | | |
| t (min) | 0.172 | 0.172 | 0.220 | 0.220 | 0.248 | | | | | | | | | | | | | | |
| length/dim | 1/2-13 | 1/2-20 | 5/8-11 | 3/4-10 | 7/8-9 | | | | | | | | | | | | | | |
| 2.1/2 | ● ▲ | ● | ● ▲ | ● ▲ | | | | | | | | | | | | | | | |
| 2.3/4 | | | | | | | | | | | | | | | | | | | |
| 3 | ● ▲ | ● | ● ▲ | ● ▲ | ● | | | | | | | | | | | | | | |
| 3.1/2 | ● ▲ | | ● ▲ | ● ▲ | ● | | | | | | | | | | | | | | |
| 4 | ● ▲ | | ● ▲ | ● ▲ | ● | | | | | | | | | | | | | | |
| 4.1/2 | ● | | ● | | | | | | | | | | | | | | | | |
| 5 | ● | | ● | ● | ● | | | | | | | | | | | | | | |
| 5.1/2 | ● | | | | | | | | | | | | | | | | | | |
| 6 | ● | | ● | ● | ● | | | | | | | | | | | | | | |
| 7 | ● | | | | | | | | | | | | | | | | | | |
| 8 | ● | | | | | | | | | | | | | | | | | | |
| 9 | ● | | | | | | | | | | | | | | | | | | |
| 10 | ● | | | | | | | | | | | | | | | | | | |

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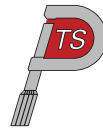
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT UND NIEDRIGEM KOPF, ANSI B18.3



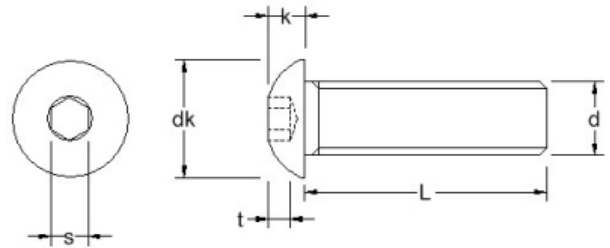
Material Grades: A2: ●

| b | 0.75 - 1.05 | 0.88 - 1.19 | 0.88 - 1.27 | 0.88 - 1.27 | 1.00 - 1.50 | 1.12 - 1.71 | 1.25 - 1.94 | | | | | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.226 | 0.270 | 0.312 | 0.312 | 0.375 | 0.437 | 0.562 | | | | | | | | | | |
| k (max) | 0.072 | 0.085 | 0.098 | 0.098 | 0.127 | 0.158 | 0.192 | | | | | | | | | | |
| s | 1/16 | 5/64 | 3/32 | 3/32 | 1/8 | 5/32 | 3/16 | | | | | | | | | | |
| t (min) | 0.050 | 0.060 | 0.072 | 0.072 | 0.094 | 0.110 | 0.115 | | | | | | | | | | |
| length/dim | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 5/16-18 | 3/8-16 | | | | | | | | | | |
| 1/4 | ● | ● | | | | | | | | | | | | | | | |
| 3/8 | ● | ● | | | ● | | | | | | | | | | | | |
| 1/2 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 3/4 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/4 | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.1/2 | | | ● | ● | ● | ● | ● | | | | | | | | | | |
| 1.3/4 | | | | | ● | ● | ● | | | | | | | | | | |
| 2 | | | | | ● | ● | ● | | | | | | | | | | |

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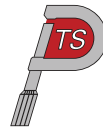
LINSENKOPFSCHRAUBEN MIT INNENSECHSKANT, ANSI B18.3



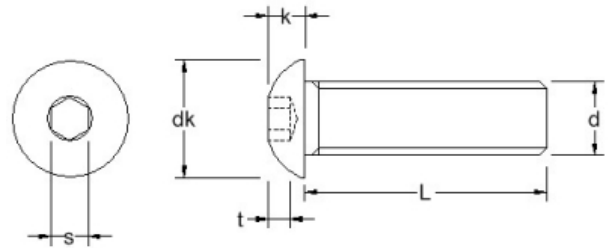
Material Grades: A2: ● A4: ▲

| length/dim | 0-80 | 2-56 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 1/2-13 | 1/2-20 | 5/8-11 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| dk (max) | 0.114 | 0.164 | 0.213 | 0.238 | 0.262 | 0.312 | 0.361 | 0.361 | 0.437 | 0.437 | 0.547 | 0.547 | 0.656 | 0.656 | 0.875 | 0.875 | 1.00 |
| k (max) | 0.032 | 0.046 | 0.059 | 0.066 | 0.073 | 0.087 | 0.101 | 0.101 | 0.132 | 0.132 | 0.166 | 0.166 | 0.199 | 0.199 | 0.265 | 0.265 | 0.331 |
| s | 0.035 | 0.050 | 1/16 | 5/64 | 5/64 | 3/32 | 1/8 | 1/8 | 5/32 | 5/32 | 3/16 | 3/16 | 7/32 | 7/32 | 5/16 | 5/16 | 3/8 |
| t (min) | 0.020 | 0.028 | 0.035 | 0.044 | 0.044 | 0.052 | 0.070 | 0.070 | 0.087 | 0.087 | 0.105 | 0.105 | 0.122 | 0.122 | 0.175 | 0.175 | 0.210 |
| 1/8 | ● | ● | ● | | ● | ● | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ● | ● | ● | | ● | | | | | | | | | |
| 1/4 | ● | ● | ●▲ | ● | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | | | | | | | |
| 5/16 | | ● | ●▲ | ● | ●▲ | ●▲ | ● | ●▲ | ●▲ | ● | | | | | | | |
| 3/8 | ● | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | | | | |
| 7/16 | | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ● | | | | | | | |
| 1/2 | ● | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | ● | | |
| 5/8 | ● | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | | ● | | |
| 3/4 | ● | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ● | |
| 7/8 | | ● | ● | | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ● | | | |
| 1 | ● | ● | ● | | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ● | ● |
| 1.1/4 | | | ● | | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | ● | ● |
| 1.1/2 | | | ● | | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | ● | ● |
| 1.3/4 | | | | | ● | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ● | ● |
| 2 | | | | | | ● | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ● | ● |
| 2.1/4 | | | | | | | ● | | ●▲ | ● | ●▲ | | ●▲ | | | | ● |

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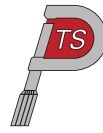
LINSENKOPFSCHRAUBEN MIT INNENSECHSKANT, ANSI B18.3



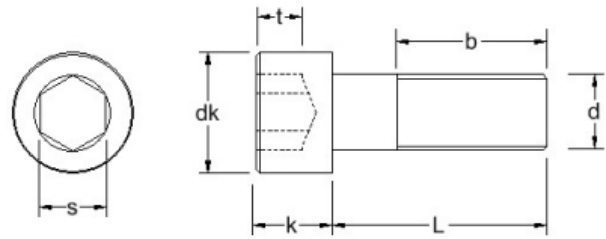
Material Grades: A2: ● A4: ▲

| length/dim | 0-80 | 2-56 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 1/2-13 | 1/2-20 | 5/8-11 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| dk (max) | 0.114 | 0.164 | 0.213 | 0.238 | 0.262 | 0.312 | 0.361 | 0.361 | 0.437 | 0.437 | 0.547 | 0.547 | 0.656 | 0.656 | 0.875 | 0.875 | 1.00 |
| k (max) | 0.032 | 0.046 | 0.059 | 0.066 | 0.073 | 0.087 | 0.101 | 0.101 | 0.132 | 0.132 | 0.166 | 0.166 | 0.199 | 0.199 | 0.265 | 0.265 | 0.331 |
| s | 0.035 | 0.050 | 1/16 | 5/64 | 5/64 | 3/32 | 1/8 | 1/8 | 5/32 | 5/32 | 3/16 | 3/16 | 7/32 | 7/32 | 5/16 | 5/16 | 3/8 |
| t (min) | 0.020 | 0.028 | 0.035 | 0.044 | 0.044 | 0.052 | 0.070 | 0.070 | 0.087 | 0.087 | 0.105 | 0.105 | 0.122 | 0.122 | 0.175 | 0.175 | 0.210 |
| 2.1/2 | | | | | | | ● | ● | ●▲ | ● | ●▲ | | ●▲ | | ●▲ | ● | ● |
| 2.3/4 | | | | | | | | | | | ●▲ | | ●▲ | | | | |
| 3 | | | | | | | ● | ● | ●▲ | ● | ●▲ | | ●▲ | | ●▲ | ● | |
| 3.1/2 | | | | | | | | | | ● | ● | | ● | | ● | | |
| 4 | | | | | | | | | | ● | ● | | ● | | ● | | |
| 4.1/2 | | | | | | | | | | | | | | | ● | | |
| 5 | | | | | | | | | | | | | ● | | ● | | |
| 6 | | | | | | | | | | | | | ● | | ● | | |

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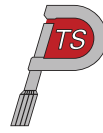
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT, ANSI B18.3



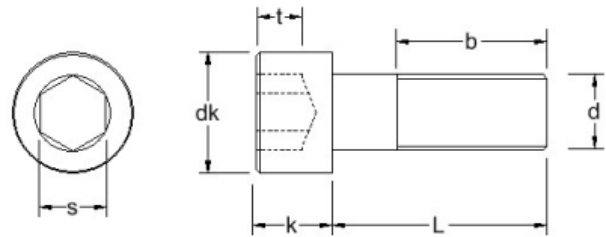
Material Grades: A2: ● A4: ▲

| b | 0.50 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.75 - 0.99 | 0.75 - 0.99 | 0.75 - 1.00 | 0.75 - 1.05 | 0.75 - 1.05 | 0.88 - 1.19 | 0.88 - 1.19 | 0.88 - 1.27 | 0.88 - 1.27 | 0.88 - 1.27 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| dk (max) | 0.096 | 0.118 | 0.118 | 0.140 | 0.140 | 0.161 | 0.161 | 0.183 | 0.183 | 0.205 | 0.226 | 0.226 | 0.270 | 0.270 | 0.312 | 0.312 | 0.343 |
| k (max) | 0.060 | 0.073 | 0.073 | 0.086 | 0.086 | 0.099 | 0.099 | 0.112 | 0.112 | 0.125 | 0.138 | 0.138 | 0.164 | 0.164 | 0.190 | 0.190 | 0.216 |
| s | 0.050 | 1/16 | 1/16 | 5/64 | 5/64 | 5/64 | 5/64 | 3/32 | 3/32 | 3/32 | 7/64 | 7/64 | 9/64 | 9/64 | 5/32 | 5/32 | 5/32 |
| t (min) | 0.025 | 0.031 | 0.031 | 0.038 | 0.038 | 0.044 | 0.044 | 0.051 | 0.051 | 0.057 | 0.064 | 0.064 | 0.077 | 0.077 | 0.090 | 0.090 | 0.090 |
| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 2-64 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 6-40 | 8-32 | 8-36 | 10-24 | 10-32 | 12-24 |
| 3/32 | ● | | | | | | | | | | | | | | | | |
| 1/8 | ● | ● | ● | ● | ● | | | ● | | | ● | ● | ● | | | | |
| 5/32 | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| 3/16 | ● | ● | ● | ● | ● | ● | | ●▲ | ● | | ● | ● | ● | ● | ● | ● | |
| 7/32 | ● | ● | ● | | | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | ●▲ | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | |
| 5/16 | ● | ● | ● | ●▲ | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | |
| 3/8 | ● | ● | ● | ●▲ | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ● |
| 7/16 | ● | ● | ● | ●▲ | ● | ● | | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ● |
| 1/2 | ● | ● | ● | ●▲ | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ● |
| 9/16 | ● | ● | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ● |
| 5/8 | ● | ● | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ● |
| 3/4 | ● | | ● | ● | ● | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ● |
| 7/8 | | | | ● | | ● | ● | ●▲ | ● | | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ● |
| 1 | ● | | | ● | | ● | ● | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ● |

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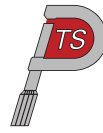
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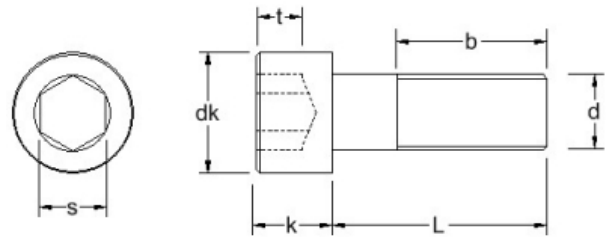
Material Grades: A2: ● A4: ▲

| b | 1.00 - 1.50 | 1.00 - 1.50 | 1.12 - 1.71 | 1.12 - 1.71 | 1.25 - 1.94 | 1.25 - 1.94 | 1.38 - 2.17 | 1.38 - 2.17 | 1.50 - 2.38 | 1.50 - 2.38 | 1.75 - 2.82 | 1.75 - 2.82 | 2.00 - 3.25 | 2.00 - 3.25 | 2.25 - 3.69 | 2.25 - 3.69 | 2.50 - 4.12 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| dk (max) | 0.375 | 0.375 | 0.469 | 0.469 | 0.562 | 0.562 | 0.656 | 0.656 | 0.750 | 0.750 | 0.938 | 0.938 | 1.125 | 1.125 | 1.312 | 1.312 | 1.500 |
| k (max) | 0.250 | 0.250 | 0.312 | 0.312 | 0.375 | 0.375 | 0.438 | 0.438 | 0.500 | 0.500 | 0.625 | 0.625 | 0.750 | 0.750 | 0.875 | 0.875 | 1.000 |
| s | 3/16 | 3/16 | 1/4 | 1/4 | 5/16 | 5/16 | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 5/8 | 5/8 | 3/4 | 3/4 | 3/4 |
| t (min) | 0.120 | 0.120 | 0.151 | 0.151 | 0.182 | 0.182 | 0.213 | 0.213 | 0.245 | 0.245 | 0.307 | 0.307 | 0.370 | 0.370 | 0.432 | 0.432 | 0.495 |
| length/dim | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 | 7/8-14 | 1-8 |
| 3/32 | | | | | | | | | | | | | | | | | |
| 1/8 | | | | | | | | | | | | | | | | | |
| 5/32 | | | | | | | | | | | | | | | | | |
| 3/16 | | | | | | | | | | | | | | | | | |
| 7/32 | | | | | | | | | | | | | | | | | |
| 1/4 | ● | ● | ● | ● | | | | | | | | | | | | | |
| 5/16 | ● | ● | | | | | | | | | | | | | | | |
| 3/8 | ●▲ | ● | ● | ● | ● | | | | | | | | | | | | |
| 7/16 | ●▲ | | | | | | | | | | | | | | | | |
| 1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | | ● | | | | | | | | |
| 9/16 | ●▲ | | | | | | | | | | | | | | | | |
| 5/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | | ● | | | | | | | | |
| 3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | | ●▲ | ● | | | | | | | |
| 7/8 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | | | | | | | | |
| 1 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ● | ●▲ | ● | ● | | | | |

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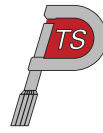
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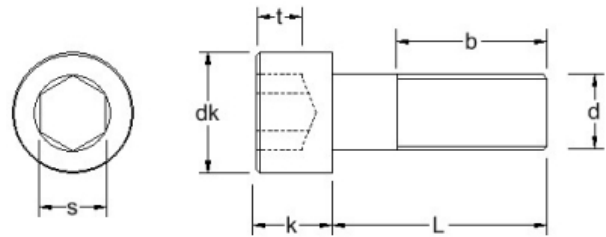
Material Grades: A2: ● A4: ▲

| b | 0.50 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.75 - 0.99 | 0.75 - 0.99 | 0.75 - 1.00 | 0.75 - 1.05 | 0.75 - 1.05 | 0.88 - 1.19 | 0.88 - 1.19 | 0.88 - 1.27 | 0.88 - 1.27 | 0.88 - 1.27 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| dk (max) | 0.096 | 0.118 | 0.118 | 0.140 | 0.140 | 0.161 | 0.161 | 0.183 | 0.183 | 0.205 | 0.226 | 0.226 | 0.270 | 0.270 | 0.312 | 0.312 | 0.343 |
| k (max) | 0.060 | 0.073 | 0.073 | 0.086 | 0.086 | 0.099 | 0.099 | 0.112 | 0.112 | 0.125 | 0.138 | 0.138 | 0.164 | 0.164 | 0.190 | 0.190 | 0.216 |
| s | 0.050 | 1/16 | 1/16 | 5/64 | 5/64 | 5/64 | 5/64 | 3/32 | 3/32 | 3/32 | 7/64 | 7/64 | 9/64 | 9/64 | 5/32 | 5/32 | 5/32 |
| t (min) | 0.025 | 0.031 | 0.031 | 0.038 | 0.038 | 0.044 | 0.044 | 0.051 | 0.051 | 0.057 | 0.064 | 0.064 | 0.077 | 0.077 | 0.090 | 0.090 | 0.090 |
| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 2-64 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 6-40 | 8-32 | 8-36 | 10-24 | 10-32 | 12-24 |
| 1.1/8 | | | | | | | | ● | | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ● |
| 1.1/4 | | | | ● | | | | ● | | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ● |
| 1.3/8 | | | | | | | | ● | | ● | ●▲ | | ●▲ | | ●▲ | ●▲ | ● |
| 1.1/2 | | | | ● | | | | ● | | ● | ●▲ | | ●▲ | | ● | ●▲ | ● |
| 1.5/8 | | | | | | | | | | | | | | | | ●▲ | |
| 1.3/4 | | | | | | | | ● | | | ● | | ● | | ●▲ | ●▲ | |
| 1.7/8 | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | ● | | | ● | | ● | | ●▲ | ●▲ | |
| 2.1/4 | | | | | | | | | | | ● | | ● | | ● | ● | |
| 2.3/8 | | | | | | | | | | | | | | | | | |
| 2.1/2 | | | | | | | | | | | ● | | ● | | ● | ● | |
| 2.3/4 | | | | | | | | | | | ● | | | | ● | ● | |
| 3 | | | | | | | | | | | ● | | ● | | ● | ● | |
| 3.1/4 | | | | | | | | | | | | | | | ● | ● | |
| 3.1/2 | | | | | | | | | | | | | ● | | ● | ● | |

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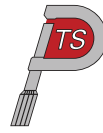
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT, ANSI B18.3



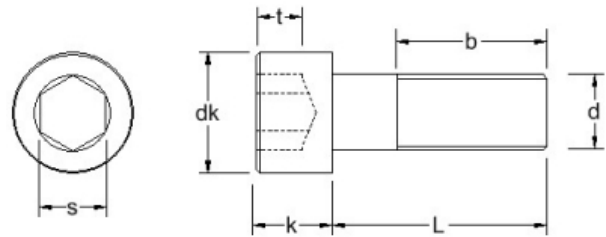
Material Grades: A2: ● A4: ▲

| b | 1.00 - 1.50 | 1.00 - 1.50 | 1.12 - 1.71 | 1.12 - 1.71 | 1.25 - 1.94 | 1.25 - 1.94 | 1.38 - 2.17 | 1.38 - 2.17 | 1.50 - 2.38 | 1.50 - 2.38 | 1.75 - 2.82 | 1.75 - 2.82 | 2.00 - 3.25 | 2.00 - 3.25 | 2.25 - 3.69 | 2.25 - 3.69 | 2.50 - 4.12 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| dk (max) | 0.375 | 0.375 | 0.469 | 0.469 | 0.562 | 0.562 | 0.656 | 0.656 | 0.750 | 0.750 | 0.938 | 0.938 | 1.125 | 1.125 | 1.312 | 1.312 | 1.500 |
| k (max) | 0.250 | 0.250 | 0.312 | 0.312 | 0.375 | 0.375 | 0.438 | 0.438 | 0.500 | 0.500 | 0.625 | 0.625 | 0.750 | 0.750 | 0.875 | 0.875 | 1.000 |
| s | 3/16 | 3/16 | 1/4 | 1/4 | 5/16 | 5/16 | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 5/8 | 5/8 | 3/4 | 3/4 | 3/4 |
| t (min) | 0.120 | 0.120 | 0.151 | 0.151 | 0.182 | 0.182 | 0.213 | 0.213 | 0.245 | 0.245 | 0.307 | 0.307 | 0.370 | 0.370 | 0.432 | 0.432 | 0.495 |
| length/dim | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 | 7/8-14 | 1-8 |
| 1.1/8 | ●▲ | ●▲ | | | | | | | | | | | | | | | |
| 1.1/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | | | |
| 1.3/8 | ●▲ | ●▲ | | | | | ●▲ | ● | ●▲ | ● | | | | | | | |
| 1.1/2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | | | |
| 1.5/8 | | | | | | | | | | | | | | | | | |
| 1.3/4 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | | | |
| 1.7/8 | | ●▲ | | | | | | | | | | | | | | | |
| 2 | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ● | ● | ● |
| 2.1/4 | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | ● | ● | |
| 2.3/8 | ●▲ | | | | | | | | | | | | | | | | |
| 2.1/2 | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ● | ● | ● |
| 2.3/4 | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | ● | ● | |
| 3 | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ● | ● | ● |
| 3.1/4 | ●▲ | ● | ●▲ | ● | ●▲ | ● | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | | | |
| 3.1/2 | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ● | ● | ● |

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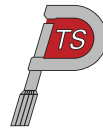
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT, ANSI B18.3



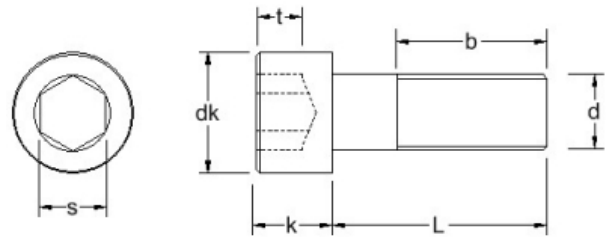
Material Grades: A2: ●

| b | 0.50 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.62 - 0.99 | 0.75 - 0.99 | 0.75 - 0.99 | 0.75 - 1.00 | 0.75 - 1.05 | 0.75 - 1.05 | 0.88 - 1.19 | 0.88 - 1.19 | 0.88 - 1.27 | 0.88 - 1.27 | 0.88 - 1.27 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| dk (max) | 0.096 | 0.118 | 0.118 | 0.140 | 0.140 | 0.161 | 0.161 | 0.183 | 0.183 | 0.205 | 0.226 | 0.226 | 0.270 | 0.270 | 0.312 | 0.312 | 0.343 |
| k (max) | 0.060 | 0.073 | 0.073 | 0.086 | 0.086 | 0.099 | 0.099 | 0.112 | 0.112 | 0.125 | 0.138 | 0.138 | 0.164 | 0.164 | 0.190 | 0.190 | 0.216 |
| s | 0.050 | 1/16 | 1/16 | 5/64 | 5/64 | 5/64 | 5/64 | 3/32 | 3/32 | 3/32 | 7/64 | 7/64 | 9/64 | 9/64 | 5/32 | 5/32 | 5/32 |
| t (min) | 0.025 | 0.031 | 0.031 | 0.038 | 0.038 | 0.044 | 0.044 | 0.051 | 0.051 | 0.057 | 0.064 | 0.064 | 0.077 | 0.077 | 0.090 | 0.090 | 0.090 |
| length/dim | 0-80 | 1-64 | 1-72 | 2-56 | 2-64 | 3-48 | 3-56 | 4-40 | 4-48 | 5-40 | 6-32 | 6-40 | 8-32 | 8-36 | 10-24 | 10-32 | 12-24 |
| 3.3/4 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | ● | | ● | ● | |
| 4.1/2 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | ● | ● | |
| 5.1/2 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | ● | ● | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |

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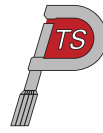
ZYLINDERSCHRAUBEN MIT INNENSECHSKANT, ANSI B18.3



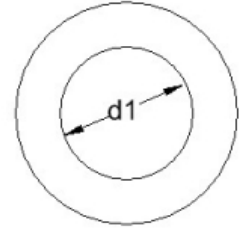
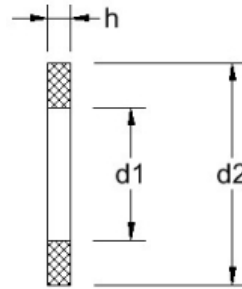
Material Grades: A2: ● A4: ▲

| b | 1.00 - 1.50 | 1.00 - 1.50 | 1.12 - 1.71 | 1.12 - 1.71 | 1.25 - 1.94 | 1.25 - 1.94 | 1.38 - 2.17 | 1.38 - 2.17 | 1.50 - 2.38 | 1.50 - 2.38 | 1.75 - 2.82 | 1.75 - 2.82 | 2.00 - 3.25 | 2.00 - 3.25 | 2.25 - 3.69 | 2.25 - 3.69 | 2.50 - 4.12 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| dk (max) | 0.375 | 0.375 | 0.469 | 0.469 | 0.562 | 0.562 | 0.656 | 0.656 | 0.750 | 0.750 | 0.938 | 0.938 | 1.125 | 1.125 | 1.312 | 1.312 | 1.500 |
| k (max) | 0.250 | 0.250 | 0.312 | 0.312 | 0.375 | 0.375 | 0.438 | 0.438 | 0.500 | 0.500 | 0.625 | 0.625 | 0.750 | 0.750 | 0.875 | 0.875 | 1.000 |
| s | 3/16 | 3/16 | 1/4 | 1/4 | 5/16 | 5/16 | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 5/8 | 5/8 | 3/4 | 3/4 | 3/4 |
| t (min) | 0.120 | 0.120 | 0.151 | 0.151 | 0.182 | 0.182 | 0.213 | 0.213 | 0.245 | 0.245 | 0.307 | 0.307 | 0.370 | 0.370 | 0.432 | 0.432 | 0.495 |
| length/dim | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 | 7/8-14 | 1-8 |
| 3.3/4 | ● | ● | ●▲ | ● | ●▲ | ● | | | ●▲ | ●▲ | | | | | | | |
| 4 | ●▲ | ● | ●▲ | ● | ●▲ | ● | ●▲ | | ●▲ | ●▲ | ●▲ | ● | ●▲ | ● | ● | ● | ● |
| 4.1/2 | ●▲ | | ●▲ | | ●▲ | ● | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | ● | ● | ● |
| 5 | ●▲ | | ●▲ | | ●▲ | ● | | | ●▲ | ●▲ | ●▲ | ● | ●▲ | | ● | ● | ● |
| 5.1/2 | ●▲ | | ●▲ | | ●▲ | ● | | | ●▲ | ●▲ | ●▲ | | ●▲ | | ● | ● | |
| 6 | ●▲ | | ●▲ | | ●▲ | ● | | | ●▲ | ●▲ | ●▲ | | ●▲ | | ● | ● | ● |
| 7 | ● | | ● | | ● | | | | ●▲ | | ●▲ | | ●▲ | | ● | ● | ● |
| 8 | ● | | ● | | ● | | | | ●▲ | | ●▲ | | ●▲ | | ● | ● | ● |
| 9 | | | | | | | | | ●▲ | | ▲ | | ●▲ | | | | |
| 10 | | | | | | | | | ●▲ | | ▲ | | ●▲ | | | | |
| 11 | | | | | | | | | ●▲ | | ▲ | | ●▲ | | | | |
| 12 | | | | | | | | | ●▲ | | ▲ | | ●▲ | | | | |

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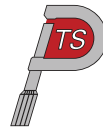
USA 800 SERIES FLAT WASHERS



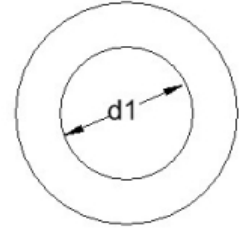
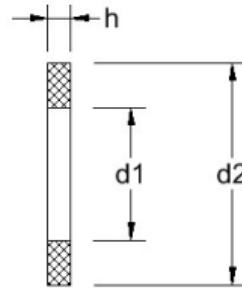
Material Grades: A2: ●

| d2 | 0.078 | 0.093 | 0.125 | 0.125 | 0.156 | 0.156 | 0.187 | 0.218 | 0.188 | 0.219 | 0.250 | 0.281 | 0.343 | 0.312 | 0.406 | 0.375 | 0.468 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| thickness/d1 | 0.187 | 0.250 | 0.250 | 0.312 | 0.312 | 0.375 | 0.375 | 0.437 | 0.438 | 0.500 | 0.562 | 0.625 | 0.687 | 0.750 | 0.812 | 0.875 | 0.921 |
| 0.0200 | ● | ● | | | | | | | | | | | | | | | |
| 0.0220 | | | ● | | | | | | | | | | | | | | |
| 0.0320 | | | | ● | | | | | | | | | | | | | |
| 0.0370 | | | | | ● | | | | | | | | | | | | |
| 0.0510 | | | | | | ● | ● | ● | ● | ● | | | | | | | |
| 0.0650 | | | | | | | | | | | ● | ● | ● | ● | ● | | ● |
| 0.0840 | | | | | | | | | | | | | | | | ● | |
| 0.0980 | | | | | | | | | | | | | | | | | |
| 0.1090 | | | | | | | | | | | | | | | | | |
| 0.1340 | | | | | | | | | | | | | | | | | |
| 0.1500 | | | | | | | | | | | | | | | | | |
| 0.1640 | | | | | | | | | | | | | | | | | |

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USA 800 SERIES FLAT WASHERS

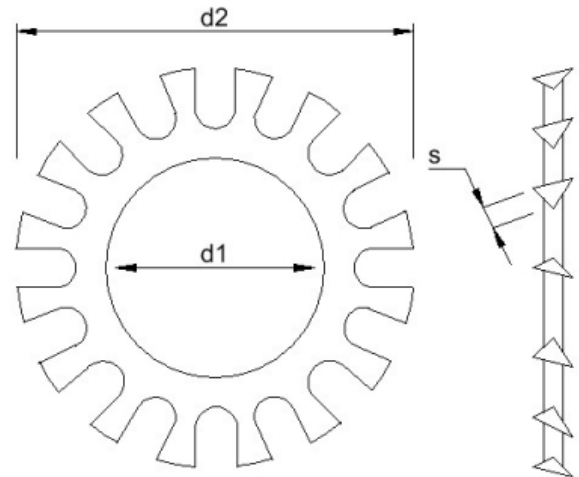


Material Grades: A2: ●

| d2 | 0.437 | 0.531 | 0.500 | 0.656 | 0.562 | 0.812 | 0.687 | 0.937 | 0.812 | 1.062 | 0.937 | 1.062 | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| thickness/d1 | 1.000 | 1.062 | 1.250 | 1.312 | 1.375 | 1.500 | 1.750 | 1.750 | 2.000 | 2.000 | 2.250 | 2.500 | | | | |
| 0.0200 | | | | | | | | | | | | | | | | |
| 0.0220 | | | | | | | | | | | | | | | | |
| 0.0320 | | | | | | | | | | | | | | | | |
| 0.0370 | | | | | | | | | | | | | | | | |
| 0.0510 | | | | | | | | | | | | | | | | |
| 0.0650 | | | | | | | | | | | | | | | | |
| 0.0840 | ● | | ● | | | | | | | | | | | | | |
| 0.0980 | | ● | | ● | | | | | | | | | | | | |
| 0.1090 | | | | | ● | | | | | | | | | | | |
| 0.1340 | | | | | | ● | ● | ● | | ● | | | | | | |
| 0.1500 | | | | | | | | | ● | | | | | | | |
| 0.1640 | | | | | | | | | | | ● | ● | | | | |

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ZAHNSCHEIBEN, FORM A

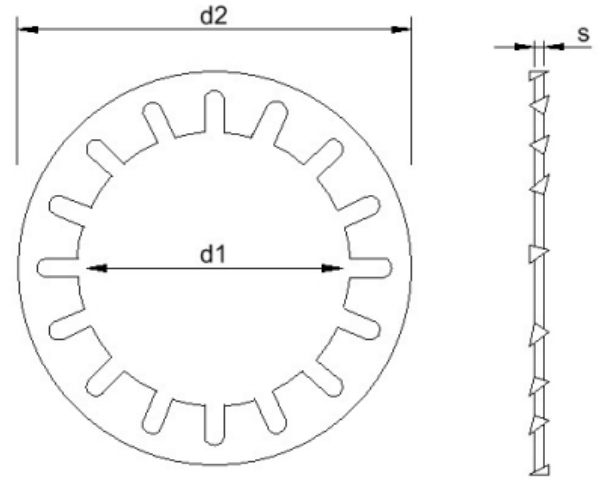


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| d1 (min) | * | 0.102 | 0.115 | 0.141 | 0.168 | 0.195 | 0.221 | 0.256 | 0.320 | 0.384 | 0.448 | 0.513 | | 0.641 | 0.768 | 0.897 | 1.025 |
| d2 (max) | * | 0.235 | 0.260 | 0.320 | 0.381 | 0.410 | 0.475 | 0.510 | 0.610 | 0.694 | 0.760 | 0.900 | | 1.070 | 1.260 | 1.410 | 1.620 |
| s (max) | * | 0.016 | 0.018 | 0.022 | 0.023 | 0.024 | 0.027 | 0.028 | 0.034 | 0.040 | 0.040 | 0.045 | | 0.050 | 0.055 | 0.060 | 0.067 |
| length/dim | #2 | #3 | #4 | #6 | #8 | #10 | #12 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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ZAHNSCHEIBEN, FORM J

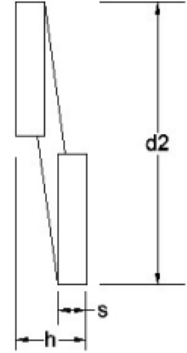
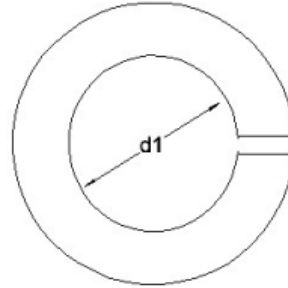


Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| d1 (min) | 0.089 | 0.102 | 0.115 | 0.141 | 0.168 | 0.195 | 0.221 | 0.256 | 0.320 | 0.384 | 0.448 | 0.512 | | 0.640 | 0.769 | 0.894 | 1.019 |
| d2 (max) | 0.200 | 0.232 | 0.270 | 0.295 | 0.340 | 0.381 | 0.410 | 0.478 | 0.610 | 0.692 | 0.789 | 0.900 | | 1.071 | 1.245 | 1.410 | 1.637 |
| s (max) | 0.016 | 0.016 | 0.018 | 0.022 | 0.023 | 0.024 | 0.027 | 0.028 | 0.034 | 0.040 | 0.040 | 0.045 | | 0.050 | 0.055 | 0.060 | 0.067 |
| length/dim | #2 | #3 | #4 | #6 | #8 | #10 | #12 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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FEDERRINGE ANSI B18.21.1

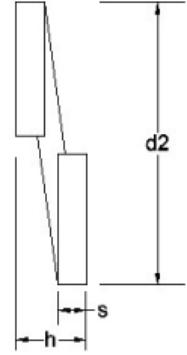
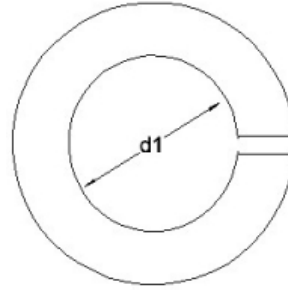


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|----|
| d1 (min) | 0.062 | 0.075 | 0.088 | 0.101 | 0.114 | 0.127 | 0.141 | 0.167 | 0.193 | 0.220 | 0.252 | 0.314 | 0.377 | 0.440 | 0.502 | | 0.628 | |
| d2 (max) | 0.137 | 0.150 | 0.172 | 0.195 | 0.209 | 0.236 | 0.250 | 0.293 | 0.334 | 0.377 | 0.487 | 0.583 | 0.680 | 0.776 | 0.869 | | 1.072 | |
| h (min) | 0.020 | 0.022 | 0.035 | 0.040 | 0.040 | 0.047 | 0.047 | 0.055 | 0.062 | 0.070 | 0.109 | 0.125 | 0.141 | 0.156 | 0.171 | | 0.203 | |
| s (min) | 0.017 | 0.020 | 0.020 | 0.025 | 0.025 | 0.031 | 0.031 | 0.040 | 0.047 | 0.056 | 0.062 | 0.078 | 0.094 | 0.109 | 0.125 | | 0.156 | |
| length/dim | #0 | #1 | #2 | #3 | #4 | #5 | #6 | #8 | #10 | #12 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | |
| | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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FEDERRINGE ANSI B18.21.1

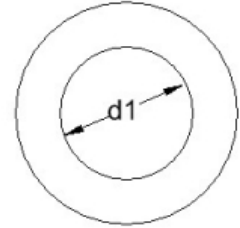
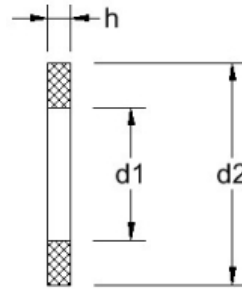


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|
| d1 (min) | 0.753 | 0.878 | 1.003 | 1.129 | 1.254 | 1.379 | 1.504 | | | | | | | | | | | |
| d2 (max) | 1.264 | 1.455 | 1.647 | 1.838 | 2.028 | 2.210 | 2.409 | | | | | | | | | | | |
| h (min) | 0.234 | 0.266 | 0.297 | 0.328 | 0.359 | 0.391 | 0.422 | | | | | | | | | | | |
| s (min) | 0.188 | 0.219 | 0.250 | 0.281 | 0.312 | 0.344 | 0.375 | | | | | | | | | | | |
| length/dim | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/4 | 1.3/8 | 1.1/2 | | | | | | | | | | | |
| | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● ▲ | | | | | | | | | | | |

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SCHEIBEN ANSI B18.21.1

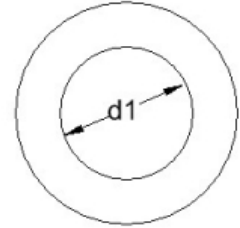
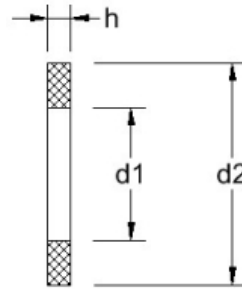


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| d1 | 0.078 | 0.099 | 0.109 | 0.125 | 0.140 | 0.149 | 0.174 | 0.203 | 0.250 | 0.281 | 0.343 | 0.406 | 0.500 | 0.531 | 0.687 | 0.812 | 0.937 | |
| d2 | 0.187 | 0.250 | 0.250 | 0.312 | 0.438 | 0.375 | 0.375 | 0.437 | 0.562 | 0.625 | 0.750 | 0.875 | 1.125 | 1.250 | 1.500 | 1.875 | 2.00 | |
| h | 0.020 | 0.031 | 0.031 | 0.031 | 0.046 | 0.031 | 0.031 | 0.063 | 0.050 | 0.050 | 0.050 | 0.050 | 0.062 | 0.062 | 0.078 | 0.109 | 0.109 | |
| length/dim | #0 | #2 | #3 | #4 | #5 | #6 | #8 | #10 | #12 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | |
| | ● | ● | ● | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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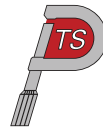
SCHEIBEN ANSI B18.21.1



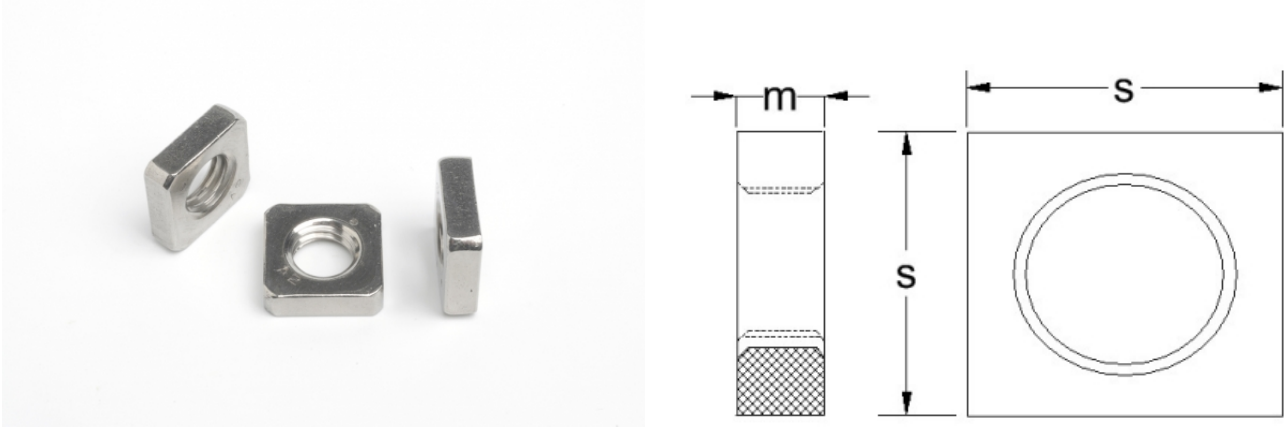
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|
| d1 | 1.062 | 1.187 | 1.312 | 1.500 | 1.562 | 1.812 | 2.125 | | | | | | | | | | | |
| d2 | 2.00 | 2.50 | 2.75 | 3.25 | 3.25 | 3.50 | 4.00 | | | | | | | | | | | |
| h | 0.125 | 0.125 | 0.125 | 0.140 | 0.140 | 0.140 | 0.187 | | | | | | | | | | | |
| length/dim | 1 | 1.1/8 | 1.1/4 | 1.3/8 | 1.1/2 | 1.3/4 | 2 | | | | | | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | | | | | | | | | | | |

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VIERKANTMUTTERN, NIEDRIGE FORM ANSI B18.2.2

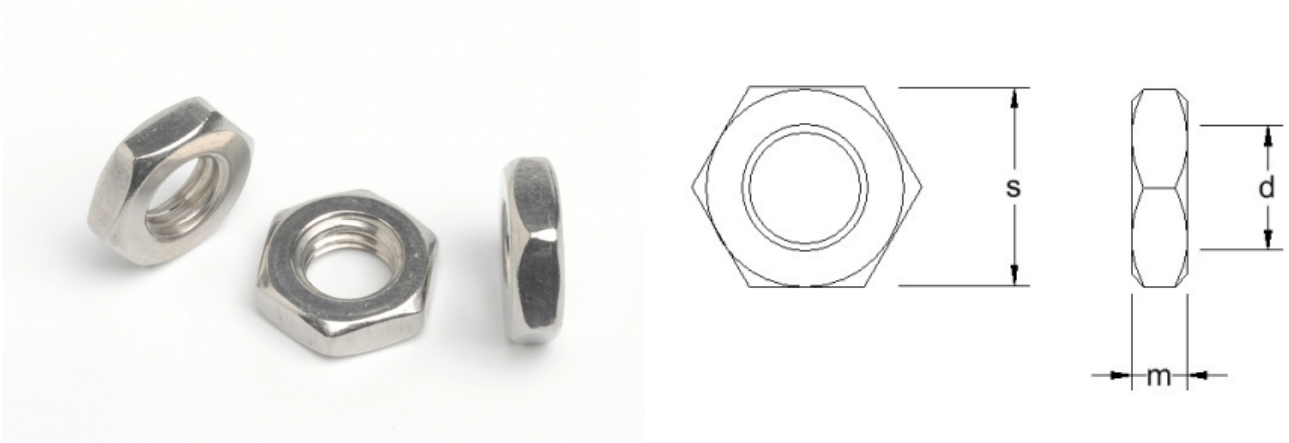


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|--------|---------|--------|---------|--------|--------|--------|--|--|--|--|--|--|
| m (max) | 0.098 | 0.114 | 0.130 | 0.130 | 0.130 | 0.235 | 0.283 | 0.346 | 0.394 | 0.458 | 0.569 | 0.680 | | | | | | |
| s (max) | 0.250 | 0.312 | 0.344 | 0.375 | 0.375 | 0.438 | 0.562 | 0.625 | 0.750 | 0.812 | 1.000 | 1.125 | | | | | | |
| length/dim | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 5/16-18 | 3/8-16 | 7/16-14 | 1/2-13 | 5/8-11 | 3/4-10 | | | | | | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ▲ | ●▲ | ● | ● | | | | | | |

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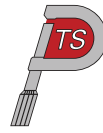
SECHSKANTMUTTERN, NIEDRIGE FORM ANSI B18.2.2



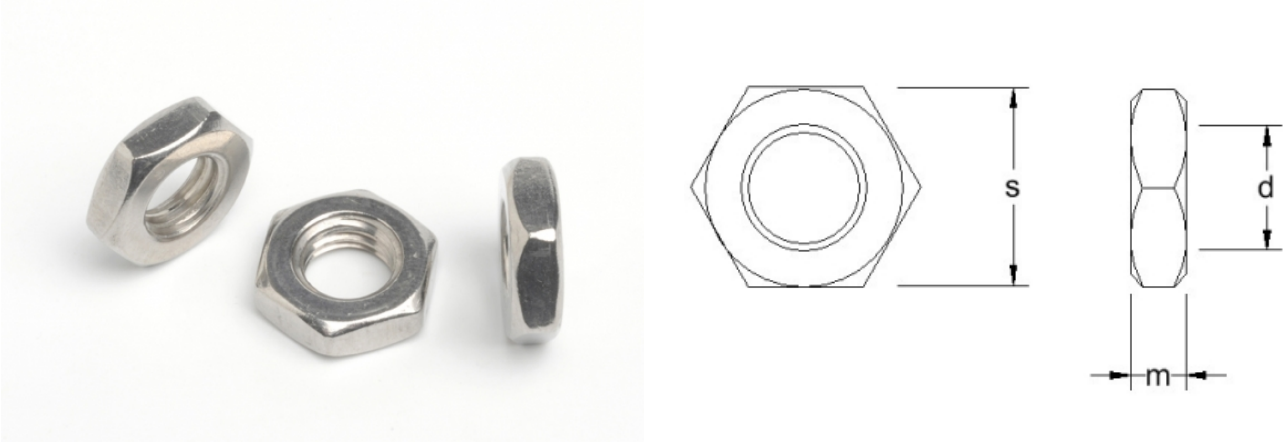
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|--------|--------|-------|
| m (max) | 0.163 | 0.163 | 0.195 | 0.195 | 0.227 | 0.227 | 0.260 | 0.260 | 0.323 | 0.323 | 0.324 | 0.324 | 0.387 | 0.387 | 0.446 | 0.446 | 0.510 |
| s (max) | 0.438 | 0.438 | 0.500 | 0.500 | 0.562 | 0.562 | 0.688 | 0.688 | 0.750 | 0.750 | 0.875 | 0.875 | 0.938 | 0.938 | 1.125 | 1.125 | 1.312 |
| length/dim | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 9/16-12 | 9/16-18 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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SECHSKANTMUTTERN, NIEDRIGE FORM ANSI B18.2.2

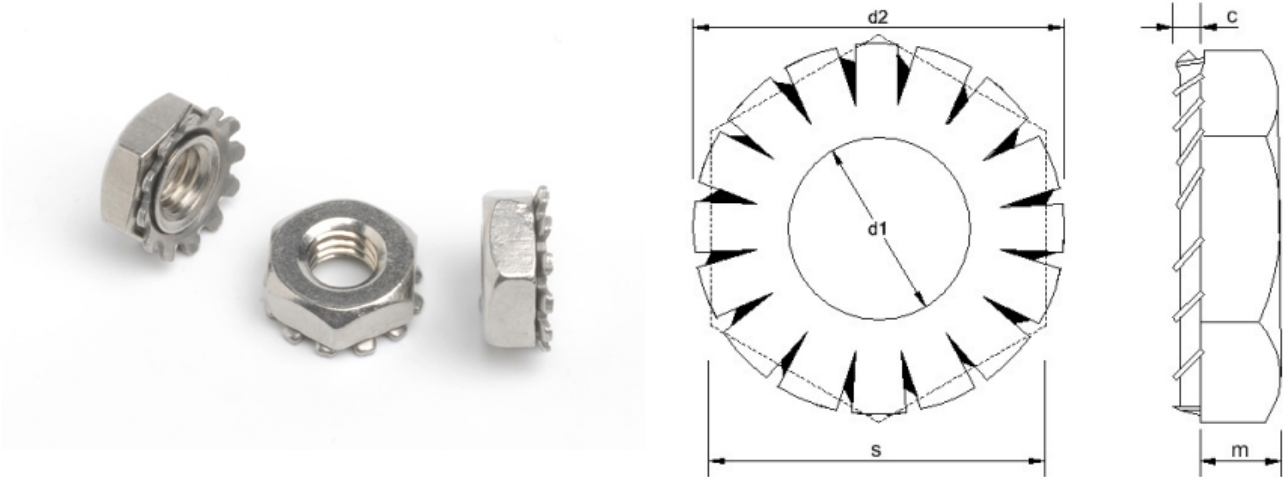


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|--------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| m (max) | 0.510 | 0.575 | 0.575 | | | | | | | | | | | | | | | | | |
| s (max) | 1.312 | 1.500 | 1.500 | | | | | | | | | | | | | | | | | |
| length/dim | 7/8-14 | 1-8 | 1-12 | | | | | | | | | | | | | | | | | |
| | ● | ●▲ | ● | | | | | | | | | | | | | | | | | |

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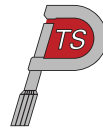
SECHSKANTMUTTERN, K-L



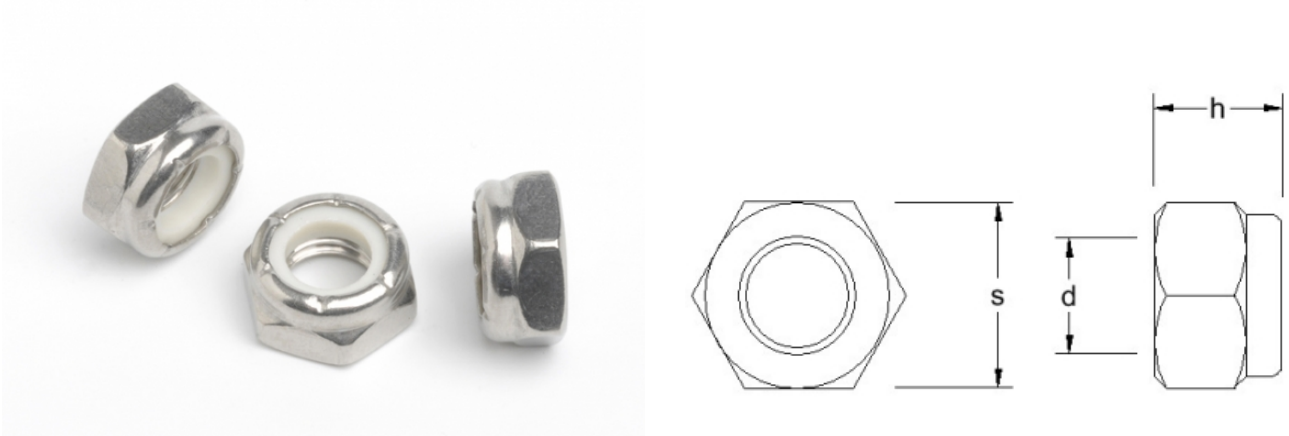
Material Grades: A2: ●

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|--|--|--|--|--|--|
| c | 0.014 | 0.018 | 0.021 | 0.023 | 0.023 | 0.026 | 0.026 | 0.031 | 0.031 | 0.031 | 0.031 | | | | | | |
| d2 | 0.281 | 0.343 | 0.375 | 0.406 | 0.406 | 0.500 | 0.500 | 0.578 | 0.578 | 0.656 | 0.656 | | | | | | |
| m | 0.094 | 0.109 | 0.125 | 0.125 | 0.125 | 0.218 | 0.218 | 0.265 | 0.265 | 0.328 | 0.328 | | | | | | |
| s | 0.250 | 0.312 | 0.344 | 0.375 | 0.375 | 0.438 | 0.438 | 0.500 | 0.500 | 0.562 | 0.562 | | | | | | |
| length/dim | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | | | | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | |

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SECHSKANTMUTTERN, MIT NICHTMETALLISCHEM KLEMMTEIL, NIEDRIGE FORM

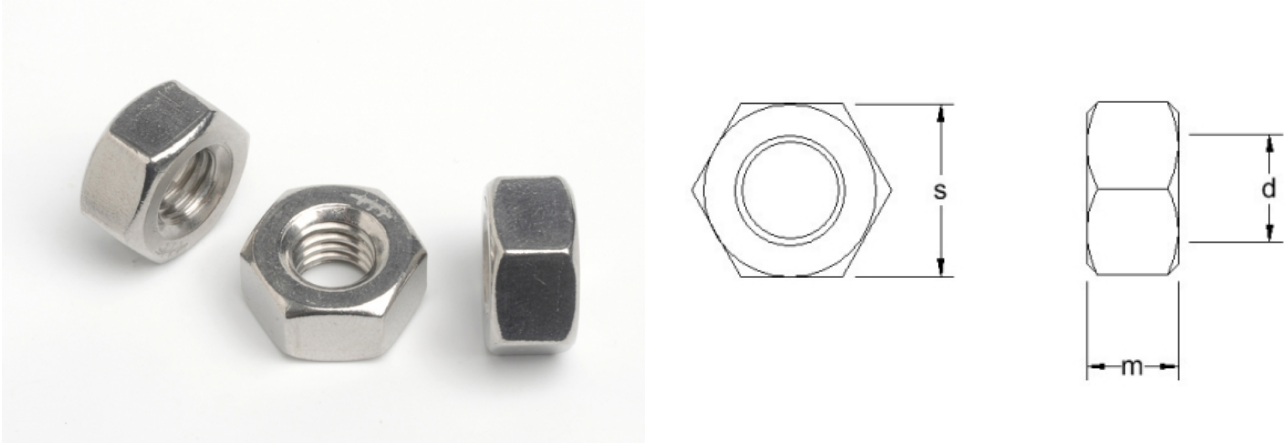


Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|--------|--------|
| h | 0.109 | 0.125 | 0.172 | 0.172 | 0.172 | 0.203 | 0.203 | 0.250 | 0.250 | 0.266 | 0.266 | 0.313 | 0.313 | 0.313 | 0.313 | 0.391 | 0.391 |
| s (max) | 0.250 | 0.312 | 0.344 | 0.375 | 0.375 | 0.438 | 0.438 | 0.500 | 0.500 | 0.563 | 0.563 | 0.688 | 0.688 | 0.750 | 0.750 | 0.938 | 0.938 |
| length/dim | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 5/8-11 | 5/8-18 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ●▲ | ●▲ | ● |

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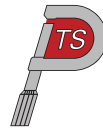
SECHSKANTMUTTERN, SCHWERE AUSFÜHRUNG ANSI B18.2.2



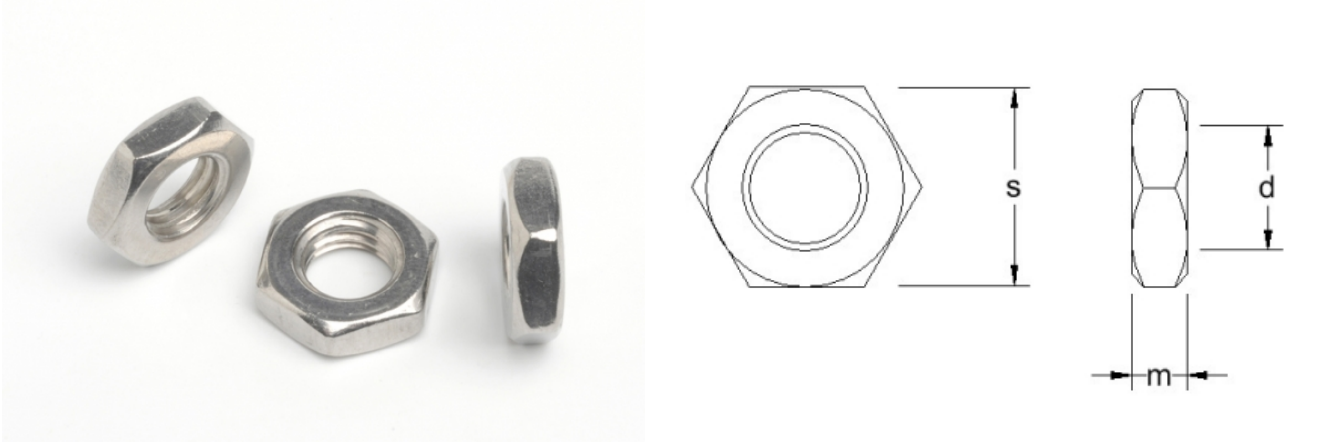
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|--------|--------|-------|
| m (max) | 0.250 | 0.250 | 0.314 | 0.314 | 0.377 | 0.377 | 0.441 | 0.441 | 0.504 | 0.504 | 0.568 | 0.568 | 0.631 | 0.631 | 0.758 | 0.758 | 0.885 |
| s (max) | 0.500 | 0.500 | 0.562 | 0.562 | 0.687 | 0.687 | 0.750 | 0.750 | 0.875 | 0.875 | 0.937 | 0.937 | 1.062 | 1.062 | 1.250 | 1.250 | 1.437 |
| length/dim | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 | 9/16-12 | 9/16-18 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 |
| | ● ▲ | ● | ● ▲ | ● | ● ▲ | ● | ● ▲ | ● | ● ▲ | ● | ● | ● | ● ▲ | ● | ● ▲ | ● | ● ▲ |

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SECHSKANTMUTTERN, LEICHTE AUSFÜHRUNG

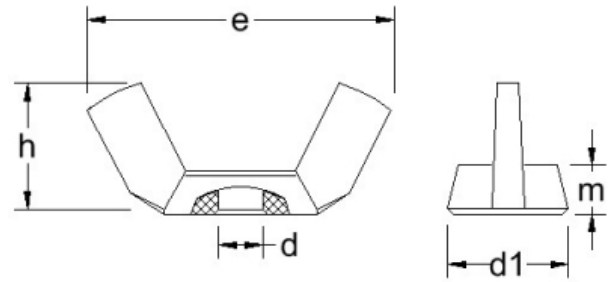


Material Grades: A2: ●

| m (max) | 0.047 | 0.047 | 0.062 | 0.062 | 0.093 | 0.093 | 0.109 | 0.125 | 0.125 | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| s (max) | 0.125 | 0.125 | 0.156 | 0.187 | 0.250 | 0.250 | 0.312 | 0.343 | 0.343 | | | | | | | | | |
| length/dim | 0-80 | 1-64 | 2-56 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | | | | | | | | | |
| 1/8AF | ● | ● | | | | | | | | | | | | | | | | |
| 5/32AF | | | ● | | | | | | | | | | | | | | | |
| 3/16AF | | | | ● | | | | | | | | | | | | | | |
| 1/4AF | | | | | ● | ● | ● | | | | | | | | | | | |
| 5/16AF | | | | | | | ● | ● | ● | | | | | | | | | |
| 11/32AF | | | | | | | | ● | ● | | | | | | | | | |

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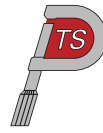
FLÜGELSCHRAUBEN



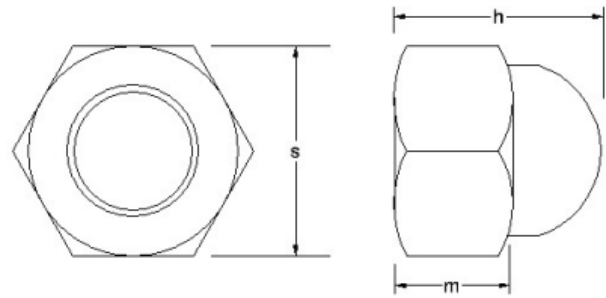
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|--------|--------|--------|--------|--|
| d1 (max) | 0.33 | 0.43 | 0.43 | 0.43 | 0.50 | 0.50 | 0.50 | 0.58 | 0.58 | 0.70 | 0.70 | 0.93 | 0.93 | 0.93 | 1.19 | 1.19 | |
| e (max) | 0.720 | 0.910 | 0.910 | 0.910 | 1.10 | 1.100 | 1.100 | 1.250 | 1.250 | 1.440 | 1.440 | 1.94 | 1.940 | 1.940 | 2.760 | 2.760 | |
| h (max) | 0.410 | 0.470 | 0.470 | 0.470 | 0.570 | 0.570 | 0.570 | 0.660 | 0.660 | 0.790 | 0.790 | 1.00 | 1.00 | 1.00 | 1.44 | 1.44 | |
| m (max) | 0.14 | 0.18 | 0.18 | 0.18 | 0.22 | 0.22 | 0.22 | 0.25 | 0.25 | 0.30 | 0.30 | 0.39 | 0.39 | 0.39 | 0.55 | 0.55 | |
| length/dim | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 1/2-13 | 1/2-20 | 5/8-11 | 3/4-10 | |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | |

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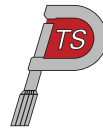
SECHSKANT-HUTMUTTERN



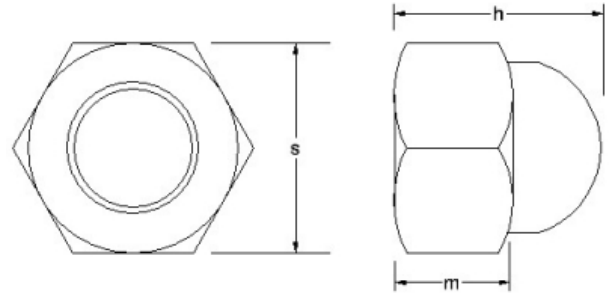
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-------|------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|
| h | 0.250 | * | 0.296 | 0.312 | 0.390 | 0.390 | 0.421 | 0.468 | 0.468 | 0.531 | 0.531 | 0.625 | 0.625 | 0.718 | 0.718 | 0.812 | 0.812 |
| m | * | * | 0.171 | 0.171 | 0.203 | 0.203 | 0.203 | 0.234 | 0.234 | 0.281 | 0.281 | 0.312 | 0.312 | 0.343 | 0.343 | 0.421 | 0.421 |
| s (max) | 0.250 | * | 0.312 | 0.312 | 0.375 | 0.375 | 0.375 | 0.437 | 0.437 | 0.562 | 0.562 | 0.625 | 0.625 | 0.625 | 0.625 | 0.750 | 0.750 |
| length/dim | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 | 1/2-20 |
| | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ● | ●▲ | ●▲ |

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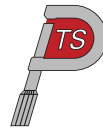
SECHSKANT-HUTMUTTERN



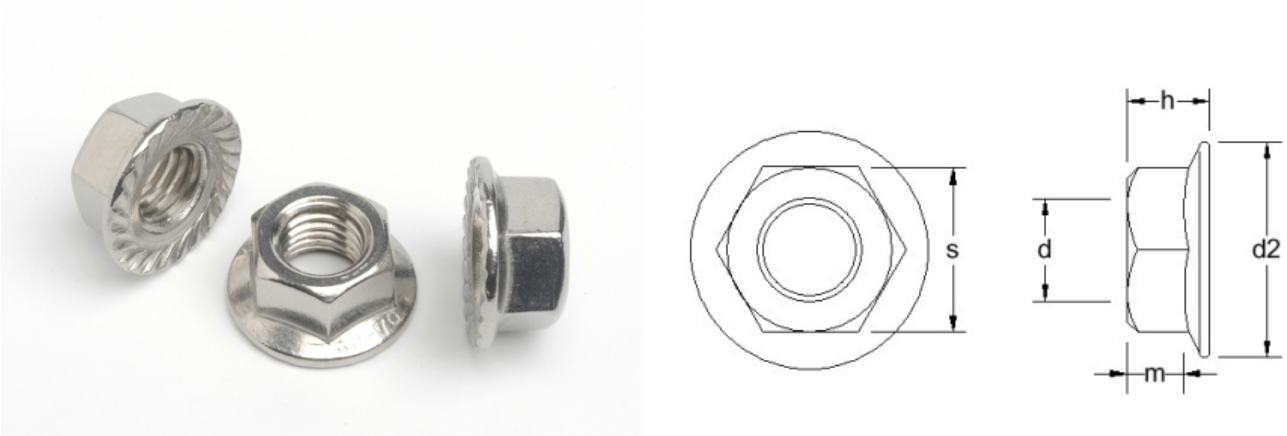
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | | | | |
|------------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| h | 0.984 | 1.187 | | | | | | | | | | | | | | | | | | |
| m | 0.531 | 0.593 | | | | | | | | | | | | | | | | | | |
| s (max) | 1.000 | 1.062 | | | | | | | | | | | | | | | | | | |
| length/dim | 5/8-11 | 3/4-10 | | | | | | | | | | | | | | | | | | |
| | ●▲ | ●▲ | | | | | | | | | | | | | | | | | | |

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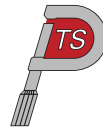
SECHSKANTMUTTERN MIT FLANSCH UND SPERRVERZÄHNUNG



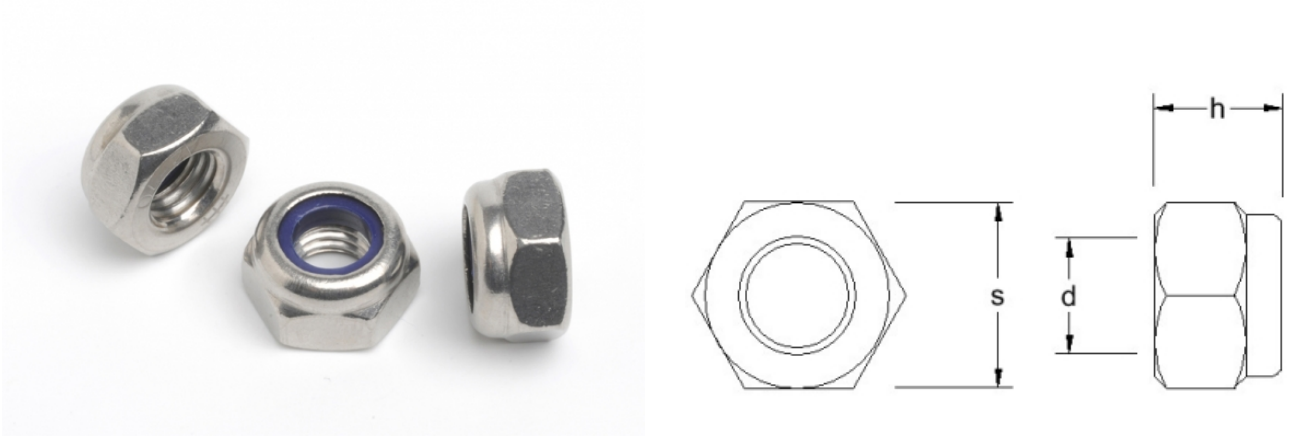
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|--------|--------|--|--|--|--|
| d2 (max) | 0.422 | 0.469 | 0.500 | 0.500 | 0.594 | 0.594 | 0.594 | 0.680 | 0.680 | 0.750 | 0.750 | 1.031 | 1.031 | | | | |
| h (max) | 0.171 | 0.203 | 0.219 | 0.219 | 0.236 | 0.236 | 0.236 | 0.283 | 0.283 | 0.347 | 0.347 | 0.458 | 0.458 | | | | |
| m (min) | 0.10 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.17 | 0.17 | 0.23 | 0.23 | 0.31 | 0.31 | | | | |
| s (max) | 0.312 | 0.344 | 0.375 | 0.375 | 0.438 | 0.438 | 0.438 | 0.500 | 0.500 | 0.562 | 0.562 | 0.750 | 0.750 | | | | |
| length/dim | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 1/2-13 | 1/2-20 | | | | |
| | ● ▲ | ● ▲ | ● ▲ | ● ▲ | ● | ● ▲ | ● | ● ▲ | ● | ● ▲ | ● | ● ▲ | ● | | | | |

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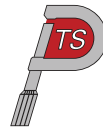
SECHSKANTMUTTERN, MIT NICHTMETALLISCHEM KLEMMTEIL



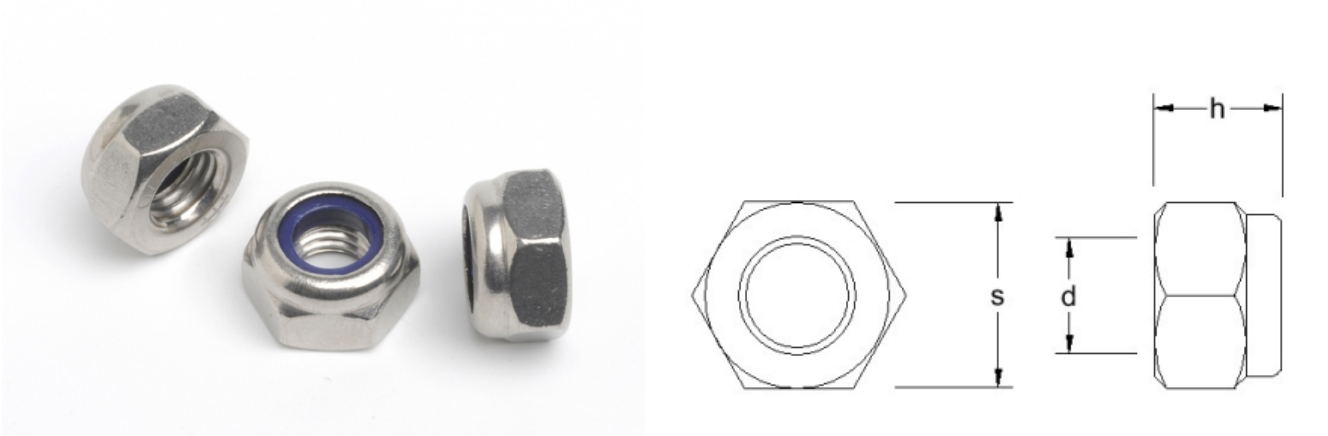
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|---------|---------|--------|
| h(max) | 0.141 | 0.141 | 0.141 | 0.172 | 0.234 | 0.234 | 0.234 | 0.313 | 0.313 | 0.313 | 0.344 | 0.344 | 0.453 | 0.453 | 0.453 | 0.453 | 0.594 |
| s(max) | 0.250 | 0.250 | 0.250 | 0.312 | 0.344 | 0.375 | 0.375 | 0.438 | 0.438 | 0.438 | 0.500 | 0.500 | 0.562 | 0.562 | 0.688 | 0.688 | 0.750 |
| length/dim | 2-56 | 4-40 | 5-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4-20 | 1/4-28 | 5/16-18 | 5/16-24 | 3/8-16 | 3/8-24 | 7/16-14 | 7/16-20 | 1/2-13 |
| | ● | ● | ● | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ |

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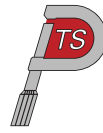
SECHSKANTMUTTERN, MIT NICHTMETALLISCHEM KLEMMTEIL



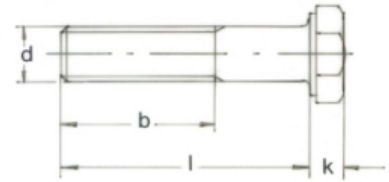
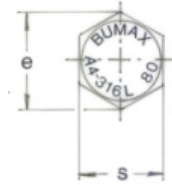
Material Grades: A2: ● A4: ▲

| | | | | | | | | | | | | | | | | | |
|------------|--------|---------|---------|--------|--------|--------|--------|-------|--------|-------|-------|--|--|--|--|--|--|
| h(max) | 0.594 | 0.640 | 0.640 | 0.750 | 0.750 | 0.875 | 0.875 | 0.984 | 0.984 | 1.047 | 1.047 | | | | | | |
| s (max) | 0.750 | 0.875 | 0.875 | 0.938 | 0.938 | 1.063 | 1.063 | 1.250 | 1.250 | 1.440 | 1.440 | | | | | | |
| length/dim | 1/2-20 | 9/16-12 | 9/16-18 | 5/8-11 | 5/8-18 | 3/4-10 | 3/4-16 | 7/8-9 | 7/8-14 | 1-8 | 1-12 | | | | | | |
| | ●▲ | ●▲ | ● | ●▲ | ●▲ | ●▲ | ●▲ | ●▲ | ● | ●▲ | ▲ | | | | | | |

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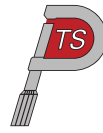
BUMAX SECHSKANTSCHRAUBEN MIT SCHAFT ANSI B18.2.1



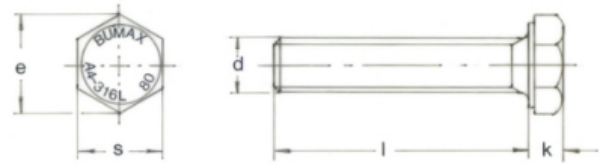
Material Grades: **BUMAX 88** ♦

| k (max) | 0.163 | 0.211 | 0.243 | 0.323 | 0.403 | 0.483 | 0.563 | 0.627 | | | | | | | | | |
|------------|--------|---------|--------|--------|--------|--------|-------|-------|--|--|--|--|--|--|--|--|--|
| s (max) | 0.438 | 0.500 | 0.562 | 0.750 | 0.938 | 1.125 | 1.312 | 1.500 | | | | | | | | | |
| length/dim | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | 7/8-9 | 1-8 | | | | | | | | | |
| 1 | ♦ | | | | | | | | | | | | | | | | |
| 1.1/4 | ♦ | ♦ | ♦ | | | | | | | | | | | | | | |
| 1.1/2 | ♦ | ♦ | ♦ | | | | | | | | | | | | | | |
| 1.3/4 | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | | |
| 2 | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | |
| 2.1/4 | | | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | |
| 2.1/2 | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | |
| 2.3/4 | | | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | |
| 3 | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | |
| 3.1/4 | | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | |
| 3.1/2 | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | |
| 4 | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | |
| 4.1/2 | | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | |
| 5 | | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | |
| 5.1/2 | | | | ♦ | ♦ | ♦ | | ♦ | | | | | | | | | |
| 6 | | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | |
| 6.1/2 | | | | | | ♦ | | ♦ | | | | | | | | | |
| 7 | | | | | | ♦ | | | | | | | | | | | |

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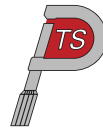
BUMAX SECHSKANTSCHRAUBEN MIT VOLLGEWINDE ANSI B18.2.1



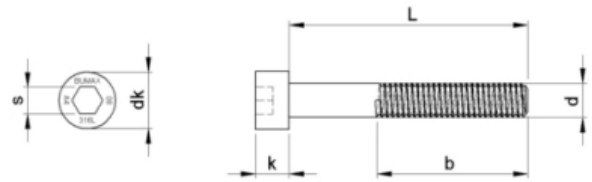
Material Grades: **BUMAX 88** ♦

| s (max) | 0.163 | 0.211 | 0.243 | 0.323 | 0.403 | 0.483 | 0.627 | | | | | | | | |
|------------|--------|---------|--------|--------|--------|--------|-------|--|--|--|--|--|--|--|--|
| length/dim | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | 1-8 | | | | | | | | |
| 1/2 | ♦ | ♦ | | | | | | | | | | | | | |
| 5/8 | ♦ | ♦ | ♦ | | | | | | | | | | | | |
| 3/4 | ♦ | ♦ | ♦ | | | | | | | | | | | | |
| 7/8 | | | ♦ | | | | | | | | | | | | |
| 1 | | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | |
| 1.1/4 | | | | ♦ | ♦ | ♦ | | | | | | | | | |
| 1.1/2 | | | | ♦ | ♦ | ♦ | | | | | | | | | |
| 1.3/4 | | | | | ♦ | ♦ | | | | | | | | | |
| 2 | | | | | | ♦ | ♦ | | | | | | | | |
| 2.1/4 | | | | | | | ♦ | | | | | | | | |
| 2.1/2 | | | | | | | ♦ | | | | | | | | |

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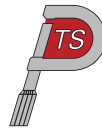
BUMAX ZYLINDERSCHRAUBEN MIT INNENSECHSKANT ANSI B18.3



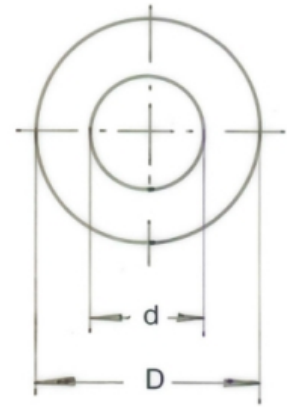
Material Grades: **BUMAX 88** ♦

| | | | | | | | | | | | | | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|--|
| dk (max) | 0.250 | 0.312 | 0.375 | 0.500 | 0.625 | 0.750 | 0.875 | 1.000 | | | | | | | | | | |
| k (max) | 0.120 | 0.151 | 0.182 | 0.245 | 0.307 | 0.370 | 0.432 | 0.495 | | | | | | | | | | |
| s | 1.00 - 1.50 | 1.12 - 1.71 | 1.25 - 1.94 | 1.50 - 2.38 | 1.75 - 2.82 | 2.00 - 3.25 | 2.25 - 3.69 | 2.50 - 4.12 | | | | | | | | | | |
| t (min) | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 3/4 | | | | | | | | | | |
| length/dim | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | 7/8-9 | 1-8 | | | | | | | | | | |
| 1/2 | ♦ | ♦ | | | | | | | | | | | | | | | | |
| 5/8 | ♦ | ♦ | | | | | | | | | | | | | | | | |
| 3/4 | ♦ | ♦ | ♦ | | | | | | | | | | | | | | | |
| 7/8 | ♦ | ♦ | ♦ | | | | | | | | | | | | | | | |
| 1 | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | | | |
| 1.1/4 | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | | |
| 1.1/2 | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | | |
| 1.3/4 | | | ♦ | | ♦ | | | | | | | | | | | | | |
| 2 | | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | |
| 2.1/4 | | | | ♦ | ♦ | | | | | | | | | | | | | |
| 2.1/2 | | | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | | |
| 3 | | | | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | |
| 4 | | | | | ♦ | | ♦ | ♦ | | | | | | | | | | |

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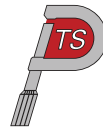
BUMAX UNTERLEGSCHIEBEN ANSI B18.22.1 200HV



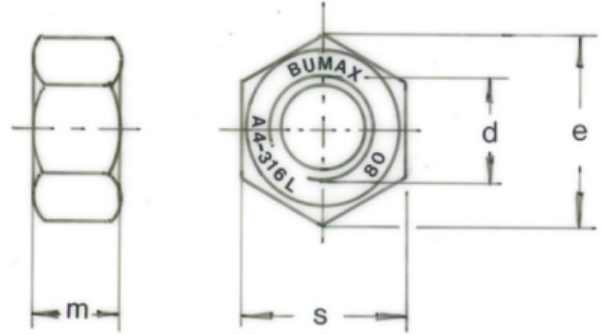
Material Grades: [BUMAX 88](#) ♦

| | | | | | | | | | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|
| d | 0.625 | 0.750 | 0.875 | 1.250 | 0.687 | 1.875 | 2.00 | 1.062 | | | | | | | | | | | |
| t | 0.050 | 0.050 | 0.050 | 0.062 | 0.078 | 0.109 | 0.109 | 0.125 | | | | | | | | | | | |
| length/dim | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | | | | | | | | | | | |
| | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | | |

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BUMAX SECHSKANTMUTTERN ANSI B18.2.2



Material Grades: **BUMAX 88** ♦

| | | | | | | | | | | | | | | | | | | |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|--|--|--|--|--|--|--|--|
| e | 0.226 | 0.273 | 0.337 | 0.448 | 0.559 | 0.665 | 0.776 | 0.887 | | | | | | | | | | |
| s (max) | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | s x 1.15 | | | | | | | | | | |
| length/dim | 1/4-20 | 5/16-18 | 3/8-16 | 1/2-13 | 5/8-11 | 3/4-10 | 7/8-9 | 1-8 | | | | | | | | | | |
| | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | ♦ | | | | | | | | | | |

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