

Dies

| | | <i>Page</i> |
|-------------|---|------------------|
| M | ISO Metric Coarse Threads, DIN 13 | |
| | <i>Dies</i> | S2 - S5 |
| | <i>Dies for automatic machines</i> | S6 - S7 |
| | <i>Dies for automatic machines, with fixing holes</i> | S8 |
| | <i>Dies for automatic machines, bell form</i> | S9 |
| | <i>Dies for automatic machines, projection form</i> | S10 |
| MF | ISO Metric Fine Threads, DIN 13 | S11 - S17 |
| UNC | Unified Coarse Threads ANSI B 1.1 | S18 |
| UNF | Unified Fine Threads ANSI B 1.1 | S19 |
| G | Whitworth Pipe Threads DIN ISO 228 | |
| | <i>Dies</i> | S20 |
| | <i>Dies for automatic machines, bell form</i> | S21 |
| R | Whitworth Pipe Threads DIN EN 10226, ISO 7, DIN 2999 (withdrawn), Taper 1 : 16 | S22 |
| NPT | American Taper Pipe Thread - Taper 1 : 16 accord. to ANSI B 1.20.1 "general purpose" | S23 |
| NPTF | American Taper Pipe Thread - Taper 1 : 16 accord. to ANSI B 1.20.3 "dry sealing" | S24 |
| Pg | Steel Conduit Thread, DIN 40430 | S25 |
| BSW | Whitworth Coarse Threads BS 84 | S26 |
| Tr | Metric ISO Trapezoidal Threads DIN 103 | S27 |
| Rd | Round Threads DIN 405 | S28 |
| | Special Dies | S29 |

Schneideisen

| | | Seite |
|---|--|------------------|
| M | Metrisches ISO-Regelgewinde DIN 13 | |
| | Gewindeschneideisen | S2 - S5 |
| | Automaten-Gewindeschneideisen | S6 - S7 |
| | Automaten-Gewindeschneideisen, mit Aufschraubblöchern | S8 |
| | Automaten-Gewindeschneideisen, Glockenform | S9 |
| Automaten-Gewindeschneideisen, mit Vorbau | S10 | |
| MF | Metrisches ISO Feingewinde DIN 13 | S11 - S17 |
| UNC | Unified Grobgewinde ANSI B 1.1 | S18 |
| UNF | Unified Feingewinde ANSI B 1.1 | S19 |
| G | Whitworth Rohrgewinde DIN ISO 228 | |
| | Gewindeschneideisen | S20 |
| | Automaten-Gewindeschneideisen, Glockenform | S21 |
| R | Whitworth Rohrgewinde DIN EN 10226, ISO 7, DIN 2999 (zurückgezogen), Konus 1 : 16 | S22 |
| NPT | Amerikanisches Kegeliges Rohrgewinde - Konus 1 : 16 nach ANSI B 1.20.1 "allg. Verwendung" | S23 |
| NPTF | Amerikanisches Kegeliges Rohrgewinde - Konus 1 : 16 nach ANSI B 1.20.3 "trocken dichtend" | S24 |
| Pg | Stahlpanzerrohr-Gewinde, DIN 40430 | S25 |
| BSW | Whitworth Grobgewinde, BS 84 | S26 |
| Tr | Metrisches ISO Trapezgewinde, DIN 103 | S27 |
| Rd | Rundgewinde DIN 405 | S28 |
| | Sonder-Schneideisen | S29 |

M

Metrisches ISO Gewinde DIN 13

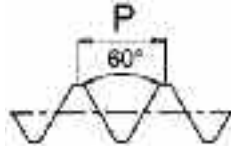
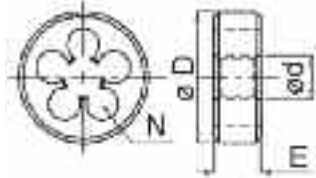
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO metric screw Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 210 000 Hahnreiter | 210 001 Hahnreiter GL | 210 002 Hahnreiter LH | 210 010 Hahnreiter 6e | 210 011 Hahnreiter 6e GL | | |
|---|--|-----------------------|--------------------------|--------------------------|--------------------------|-----------------------------|---------------|---|
| Material | Material | HSS | HSS | HSS | HSS | HSS | | |
| Toleranz | Tolerance | 6g | 6g | 6g | 6e | 6e | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,75 | 1,75 | 1,75 | | |
| Sonderwerkstoff | Special material | | | | | | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | | | | | |
| Oberfläche | Surface | | | | | | | |
| Ausführung | Variation | | geläppt | Links | Abmaß | Abmaß geläppt | | |
| | | | lapped | Left hand | Undersize | Undersize lapped | | |
| d | P | Code | D x E | N | Dreh-Ø / Turning-Ø | | Verfügbarkeit | |
| | mm | | mm | | 6g | 6e | Availability | |
| M 1 | 0,25 | 01 | 16 x 5 | 3 | 0,97 | 0,92 | x | □ |
| M 1,1 | 0,25 | 011 | 16 x 5 | 3 | 1,07 | 1,02 | x | |
| M 1,2 | 0,25 | 012 | 16 x 5 | 3 | 1,17 | 1,12 | x | □ |
| M 1,4 | 0,3 | 014 | 16 x 5 | 3 | 1,36 | 1,31 | x | □ |
| M 1,6 | 0,35 | 016 | 16 x 5 | 3 | 1,54 | 1,51 | x | □ |
| M 1,7* | 0,35 | 017 | 16 x 5 | 3 | 1,64 | 1,61 | x | □ |
| M 1,8 | 0,35 | 018 | 16 x 5 | 3 | 1,74 | 1,71 | x | □ |
| M 2 | 0,4 | 023 | 16 x 5 | 3 | 1,94 | 1,90 | x | x |
| M 2 | 0,4 | 024 | 16 x 5 | 4 | 1,94 | 1,90 | | x |
| M 2,2 | 0,45 | 0223 | 16 x 5 | 3 | 2,13 | 2,10 | x | □ |
| M 2,2 | 0,45 | 0224 | 16 x 5 | 4 | 2,13 | 2,10 | | |
| M 2,3* | 0,4 | 0233 | 16 x 5 | 3 | 2,24 | 2,20 | x | x |
| M 2,3* | 0,4 | 0234 | 16 x 5 | 4 | 2,24 | 2,20 | | |
| M 2,5 | 0,45 | 0253 | 16 x 5 | 3 | 2,43 | 2,40 | x | x |
| M 2,5 | 0,45 | 0254 | 16 x 5 | 4 | 2,43 | 2,40 | | □ |
| M 2,6* | 0,45 | 0263 | 16 x 5 | 3 | 2,53 | 2,50 | x | x |
| M 2,6* | 0,45 | 0264 | 16 x 5 | 4 | 2,53 | 2,50 | | □ |
| M 3 | 0,5 | 033 | 20 x 5 | 3 | 2,92 | 2,89 | x | x |
| M 3 | 0,5 | 034 | 20 x 5 | 4 | 2,92 | 2,89 | | x |
| M 3 | 0,5 | 035 | 20 x 5 | 5 | 2,92 | 2,89 | | x |
| M 3,5 | 0,6 | 0353 | 20 x 5 | 3 | 3,41 | 3,38 | x | x |
| M 3,5 | 0,6 | 0354 | 20 x 5 | 4 | 3,41 | 3,38 | | x |
| M 4 | 0,7 | 043 | 20 x 5 | 3 | 3,91 | 3,87 | x | x |
| M 4 | 0,7 | 044 | 20 x 5 | 4 | 3,91 | 3,87 | | x |
| M 4 | 0,7 | 0445 | 20 x 5 | 5 | 3,91 | 3,87 | | x |
| M 4,5 | 0,75 | 045 | 20 x 7 | 4 | 4,41 | 4,37 | x | x |
| M 5 | 0,8 | 05 | 20 x 7 | 4 | 4,90 | 4,86 | x | x |
| M 5 | 0,8 | 055 | 20 x 7 | 5 | 4,90 | 4,86 | | x |
| M 6 | 1 | 06 | 20 x 7 | 4 | 5,88 | 5,85 | x | x |
| M 6 | 1 | 065 | 20 x 7 | 5 | 5,88 | 5,85 | | x |
| M 7 | 1 | 07 | 25 x 9 | 4 | 6,88 | 6,85 | x | x |
| M 8 | 1,25 | 08 | 25 x 9 | 4 | 7,87 | 7,83 | x | x |
| M 8 | 1,25 | 085 | 25 x 9 | 5 | 7,87 | 7,83 | | □ |
| M 9 | 1,25 | 09 | 25 x 9 | 4 | 8,86 | 8,83 | x | □ |
| M 9 | 1,25 | 095 | 25 x 9 | 5 | 8,86 | 8,83 | | □ |

* DIN Profil
* Thread profile accord. to DIN

Fortsetzung Seite S4
To be continued on page S4

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

Bis einschl. M 1,4 Toleranz 6h
up to M 1,4 incl. tolerance 6h

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

□ = Verfügbar auf Anfrage
□ = available on request

M

Metrisches ISO Gewinde DIN 13

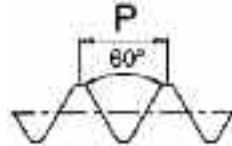
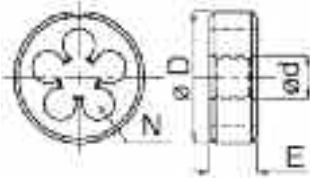
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO metric screw Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 210 008 Hahnreiter 70 | 210 020 Hahnreiter MS | 210 007 Standfest | 210 005 Nirofix | 210 006 Nirofix 6e |
|---|--|---------------------------------------|--------------------------|---|--------------------------------------|--------------------------------------|
| Material | Material | HSS | HSS | HSS-EP | HSS-EP | HSS-EP |
| Toleranz | Tolerance | 6g | 6g | 6g | 6g | 6e |
| Anschnittlänge, Gang | Chamfer length, threads | 1,25 | 1,25 | 2,25 | 2 | 2 |
| Sonderwerkstoff | Special material | | Messing Brass | für alle Stähle for all steels | rostfreie Stähle Stainless steels | rostfreie Stähle Stainless steels |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | 3.21 | 1.1 - 1.10 4.15 / 4.16 | 1.9.4 / 1.9.5 | 1.9.4 / 1.9.5 |
| Oberfläche | Surface | | | Nit | Nit | Nit |
| Ausführung | Variation | kurzer Anschnitt short chamfer | geläppt lapped | langer Anschnitt verlängerte Standzeit long chamfer increased tool life | geläppt lapped | geläppt lapped |

| d | P mm | Code | D x E mm | N | Dreh-Ø / Turning-Ø 6g 6e | | Verfügbarkeit Availability | | | | |
|--------|---------|------|-------------|---|-----------------------------|------|-------------------------------|--|---|---|---|
| | | | | | 6g | 6e | | | | | |
| M 1 | 0,25 | 01 | 16 x 5 | 3 | 0,97 | 0,92 | | | | | |
| M 1,1 | 0,25 | 011 | 16 x 5 | 3 | 1,07 | 1,02 | | | | | |
| M 1,2 | 0,25 | 012 | 16 x 5 | 3 | 1,17 | 1,12 | | | | | |
| M 1,4 | 0,3 | 014 | 16 x 5 | 3 | 1,36 | 1,31 | | | | | |
| M 1,6 | 0,35 | 016 | 16 x 5 | 3 | 1,54 | 1,51 | | | | | |
| M 1,7* | 0,35 | 017 | 16 x 5 | 3 | 1,64 | 1,61 | | | | | |
| M 1,8 | 0,35 | 018 | 16 x 5 | 3 | 1,74 | 1,71 | | | | | |
| M 2 | 0,4 | 0231 | 16 x 3,5 | 4 | 1,94 | 1,90 | | | x | | |
| M 2 | 0,4 | 023 | 16 x 5 | 3 | 1,94 | 1,90 | | | | | |
| M 2 | 0,4 | 024 | 16 x 5 | 4 | 1,94 | 1,90 | □ | | x | | |
| M 2,2 | 0,45 | 0223 | 16 x 5 | 3 | 2,13 | 2,10 | | | | | |
| M 2,2 | 0,45 | 0224 | 16 x 5 | 4 | 2,13 | 2,10 | | | | | |
| M 2,3* | 0,4 | 0233 | 16 x 5 | 3 | 2,24 | 2,20 | | | | | |
| M 2,3* | 0,4 | 0234 | 16 x 5 | 4 | 2,24 | 2,20 | | | | | |
| M 2,5 | 0,45 | 0253 | 16 x 5 | 3 | 2,43 | 2,40 | | | | | |
| M 2,5 | 0,45 | 0254 | 16 x 5 | 4 | 2,43 | 2,40 | x | | x | | |
| M 2,6* | 0,45 | 0263 | 16 x 5 | 3 | 2,53 | 2,50 | | | | | |
| M 2,6* | 0,45 | 0264 | 16 x 5 | 4 | 2,53 | 2,50 | | | | x | |
| M 3 | 0,5 | 033 | 20 x 5 | 3 | 2,92 | 2,89 | | | | | |
| M 3 | 0,5 | 034 | 20 x 5 | 4 | 2,92 | 2,89 | x | | x | | □ |
| M 3 | 0,5 | 035 | 20 x 5 | 5 | 2,92 | 2,89 | | | x | | |
| M 3,5 | 0,6 | 0354 | 20 x 5 | 4 | 3,41 | 3,38 | | | x | | |
| M 4 | 0,7 | 043 | 20 x 5 | 3 | 3,91 | 3,87 | | | | | |
| M 4 | 0,7 | 044 | 20 x 5 | 4 | 3,91 | 3,87 | x | | x | | □ |
| M 4 | 0,7 | 0445 | 20 x 5 | 5 | 3,91 | 3,87 | | | x | | |
| M 4,5 | 0,75 | 045 | 20 x 7 | 4 | 4,41 | 4,37 | | | | □ | |
| M 5 | 0,8 | 05 | 20 x 7 | 4 | 4,90 | 4,86 | x | | x | | x |
| M 5 | 0,8 | 055 | 20 x 7 | 5 | 4,90 | 4,86 | | | x | | |
| M 6 | 1 | 06 | 20 x 7 | 4 | 5,88 | 5,85 | x | | x | | x |
| M 6 | 1 | 065 | 20 x 7 | 5 | 5,88 | 5,85 | | | x | | |
| M 7 | 1 | 07 | 25 x 9 | 4 | 6,88 | 6,85 | | | x | | |
| M 8 | 1,25 | 08 | 25 x 9 | 4 | 7,87 | 7,83 | | | x | | |
| M 8 | 1,25 | 085 | 25 x 9 | 5 | 7,87 | 7,83 | x | | | x | x |
| M 8 | 1,25 | 086 | 25 x 9 | 6 | 7,87 | 7,83 | | | x | | |
| M 9 | 1,25 | 095 | 25 x 9 | 5 | 8,86 | 8,83 | | | | □ | |

* DIN Profil

* Thread profile accord. to DIN

Fortsetzung Seite S5
To be continued on page S5

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

Bis einschl. M 1,4 Toleranz 6h
up to M 1,4 incl. tolerance 6h

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

□ = Verfügbar auf Anfrage
□ = available on request

M

Metrisches ISO Gewinde DIN 13

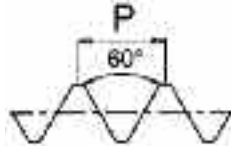
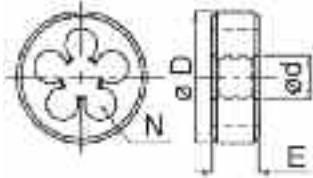
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO metric screw Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. | | Catalogue No. | | | 210 000 | 210 001 | 210 002 | 210 010 | 210 011 |
|--|------|---|----------|---|-----------------------------|---------------|-------------------------------|---------------|------------------|
| Bezeichnung | | Name | | | Hahnreiter | Hahnreiter GL | Hahnreiter LH | Hahnreiter 6e | Hahnreiter 6e GL |
| Material | | Material | | | HSS | HSS | HSS | HSS | HSS |
| Toleranz | | Tolerance | | | 6g | 6g | 6g | 6e | 6e |
| Anschnittlänge, Gang | | Chamfer length, threads | | | 1,75 | 1,75 | 1,75 | 1,75 | 1,75 |
| Sonderwerkstoff | | Special material | | | | | | | |
| Zerspanungsgruppe, siehe Ausklappseite links | | Machinability-group, See folder left page | | | | | | | |
| Oberfläche | | Surface | | | | | | | |
| Ausführung | | Variation | | | | geläppt | Links | Abmaß | Abmaß geläppt |
| | | | | | | lapped | Left hand | Undersize | Undersize lapped |
| d | P mm | Code | D x E mm | N | Dreh-Ø / Turning-Ø 6g 6e | | Verfügbarkeit Availability | | |
| M 10 | 1,5 | 104 | 30 x 11 | 4 | 9,85 | 9,81 | x | x | x |
| M 10 | 1,5 | 105 | 30 x 11 | 5 | 9,85 | 9,81 | | | |
| M 10 | 1,5 | 106 | 30 x 11 | 6 | 9,85 | 9,81 | | | |
| M 11 | 1,5 | 11 | 30 x 11 | 4 | 10,85 | 10,81 | x | x | □ |
| M 11 | 1,5 | 115 | 30 x 11 | 5 | 10,85 | 10,81 | | | |
| M 12 | 1,75 | 124 | 38 x 14 | 4 | 11,83 | 11,80 | x | x | x |
| M 12 | 1,75 | 125 | 38 x 14 | 5 | 11,83 | 11,80 | | | |
| M 12 | 1,75 | 126 | 38 x 14 | 6 | 11,83 | 11,80 | | | |
| M 14 | 2 | 144 | 38 x 14 | 4 | 13,82 | 13,79 | x | x | □ |
| M 14 | 2 | 145 | 38 x 14 | 5 | 13,82 | 13,79 | | | |
| M 16 | 2 | 164 | 45 x 18 | 4 | 15,82 | 15,79 | x | x | x |
| M 16 | 2 | 165 | 45 x 18 | 5 | 15,82 | 15,79 | | | |
| M 16 | 2 | 166 | 45 x 18 | 6 | 15,82 | 15,79 | | | |
| M 18 | 2,5 | 18 | 45 x 18 | 5 | 17,79 | 17,75 | x | x | □ |
| M 20 | 2,5 | 20 | 45 x 18 | 5 | 19,79 | 19,75 | x | x | □ |
| M 20 | 2,5 | 206 | 45 x 18 | 6 | 19,79 | 19,75 | | | |
| M 22 | 2,5 | 22 | 55 x 22 | 5 | 21,79 | 21,75 | x | x | □ |
| M 24 | 3 | 24 | 55 x 22 | 5 | 23,77 | 23,73 | x | x | |
| M 24 | 3 | 246 | 55 x 22 | 6 | 23,77 | 23,73 | | | |
| M 27 | 3 | 27 | 65 x 25 | 5 | 26,77 | 26,73 | x | x | □ |
| M 27 | 3 | 276 | 65 x 25 | 6 | 26,77 | 26,73 | | | |
| M 30 | 3,5 | 30 | 65 x 25 | 5 | 29,73 | 29,70 | x | x | □ |
| M 30 | 3,5 | 306 | 65 x 25 | 6 | 29,73 | 29,70 | | | |
| M 33 | 3,5 | 33 | 65 x 25 | 6 | 32,73 | 32,70 | x | x | □ |
| M 36 | 4 | 36 | 65 x 25 | 7 | 35,70 | 35,66 | x | x | □ |
| M 39 | 4 | 39 | 75 x 30 | 6 | 38,70 | 38,66 | x | x | |
| M 42 | 4,5 | 42 | 75 x 30 | 7 | 41,68 | 41,65 | x | x | □ |
| M 45 | 4,5 | 45 | 90 x 36 | 7 | 44,68 | 44,65 | x | x | |
| M 48 | 5 | 48 | 90 x 36 | 7 | 47,66 | 47,62 | x | x | |
| M 52 | 5 | 52 | 90 x 36 | 7 | 51,66 | 51,62 | x | x | |
| M 56 | 5,5 | 56 | 105 x 36 | 7 | 55,85 | 55,81 | □ | □ | |
| M 60 | 5,5 | 60 | 105 x 36 | 8 | 59,85 | 59,81 | □ | □ | |
| M 64 | 6 | 64 | 105 x 36 | 8 | 63,85 | 63,81 | □ | □ | |

* DIN Profil

* Thread profile accord. to DIN

Bis einschl. M 1,4 Toleranz 6h
up to M 1,4 incl. tolerance 6h

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□=Verfügbar auf Anfrage
□=available on request

M

Metrisches ISO Gewinde DIN 13

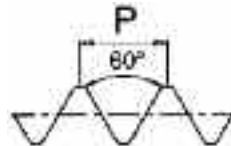
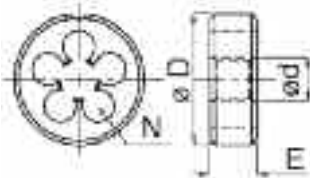
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO metric screw Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 210 008 Hahnreiter 70 | 210 020 Hahnreiter MS | 210 007 Standfest | 210 005 Nirofix | 210 006 Nirofix 6e | | | | | |
|---|--|---------------------------------------|--------------------------|---|--------------------------------------|--------------------------------------|---------------|---|---|---|---|
| Material | Material | HSS | HSS | HSS-EP | HSS-EP | HSS-EP | | | | | |
| Toleranz | Tolerance | 6g | 6g | 6g | 6g | 6e | | | | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,25 | 1,25 | 2,25 | 2 | 2 | | | | | |
| Sonderwerkstoff | Special material | | Messing Brass | für alle Stähle for all steels | rostfreie Stähle Stainless steels | rostfreie Stähle Stainless steels | | | | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | 3.21 | 1.1 - 1.10 4.15 / 4.16 | 1.9.4 / 1.9.5 | 1.9.4 / 1.9.5 | | | | | |
| Oberfläche | Surface | | | Nit | Nit | Nit | | | | | |
| Ausführung | Variation | kurzer Anschnitt short chamfer | geläppt lapped | langer Anschnitt verlängerte Standzeit long chamfer increased tool life | geläppt lapped | geläppt lapped | | | | | |
| d | P | Code | D x E | N | Dreh-Ø / Turning-Ø | | Verfügbarkeit | | | | |
| | mm | | mm | | 6g | 6e | Availability | | | | |
| M 10 | 1,5 | 104 | 30 x 11 | 4 | 9,85 | 9,81 | x | x | | x | x |
| M 10 | 1,5 | 105 | 30 x 11 | 5 | 9,85 | 9,81 | | | x | | |
| M 10 | 1,5 | 106 | 30 x 11 | 6 | 9,85 | 9,81 | | | | | |
| M 11 | 1,5 | 11 | 30 x 11 | 4 | 10,85 | 10,81 | | | | | |
| M 11 | 1,5 | 111 | 30 x 11 | 5 | 10,85 | 10,81 | | | | □ | |
| M 12 | 1,75 | 124 | 38 x 14 | 4 | 11,83 | 11,80 | | x | | | |
| M 12 | 1,75 | 125 | 38 x 14 | 5 | 11,83 | 11,80 | □ | | | x | x |
| M 12 | 1,75 | 126 | 38 x 14 | 6 | 11,83 | 11,80 | | | x | | |
| M 14 | 2 | 144 | 38 x 14 | 4 | 13,82 | 13,79 | | □ | | | |
| M 14 | 2 | 145 | 38 x 14 | 5 | 13,82 | 13,79 | | | | x | |
| M 16 | 2 | 164 | 45 x 18 | 4 | 15,82 | 15,79 | | □ | | | |
| M 16 | 2 | 165 | 45 x 18 | 5 | 15,82 | 15,79 | | | | x | |
| M 16 | 2 | 166 | 45 x 18 | 6 | 15,82 | 15,79 | | | x | | |
| M 18 | 2,5 | 18 | 45 x 18 | 5 | 17,79 | 17,75 | | | | x | |
| M 20 | 2,5 | 20 | 45 x 18 | 5 | 19,79 | 19,75 | | | | x | |
| M 20 | 2,5 | 206 | 45 x 18 | 6 | 19,79 | 19,75 | | | x | | |
| M 22 | 2,5 | 22 | 55 x 22 | 6 | 21,79 | 21,75 | | | | | x |
| M 24 | 3 | 24 | 55 x 22 | 5 | 23,77 | 23,73 | | | | | x |
| M 24 | 3 | 246 | 55 x 22 | 6 | 23,77 | 23,73 | | | | | x |
| M 27 | 3 | 27 | 65 x 25 | 5 | 26,77 | 26,73 | | | | | x |
| M 27 | 3 | 276 | 65 x 25 | 6 | 26,77 | 26,73 | | | | | x |
| M 30 | 3,5 | 30 | 65 x 25 | 5 | 29,73 | 29,70 | | | | | |
| M 30 | 3,5 | 306 | 65 x 25 | 6 | 29,73 | 29,70 | | | | | □ |
| M 33 | 3,5 | 33 | 65 x 25 | 6 | 32,73 | 32,70 | | | | | □ |
| M 36 | 4 | 36 | 65 x 25 | 7 | 35,70 | 35,66 | | | | | □ |
| M 39 | 4 | 39 | 75 x 30 | 6 | 38,70 | 38,66 | | | | | |
| M 42 | 4,5 | 42 | 75 x 30 | 7 | 41,68 | 41,65 | | | | | |
| M 45 | 4,5 | 45 | 90 x 36 | 7 | 44,68 | 44,65 | | | | | |
| M 48 | 5 | 48 | 90 x 36 | 7 | 47,66 | 47,62 | | | | | |
| M 52 | 5 | 52 | 90 x 36 | 7 | 51,66 | 51,62 | | | | | |
| M 56 | 5,5 | 56 | 105 x 36 | 7 | 55,85 | 55,81 | | | | | |
| M 60 | 5,5 | 60 | 105 x 36 | 8 | 59,85 | 59,81 | | | | | |
| M 64 | 6 | 64 | 105 x 36 | 8 | 63,85 | 63,81 | | | | | |

* DIN Profil

* Thread profile accord. to DIN

Bis einschl. M 1,4 Toleranz 6h
up to M 1,4 incl. tolerance 6h

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□= Verfügbar auf Anfrage
□= available on request

M

Metrisches ISO Gewinde DIN 13

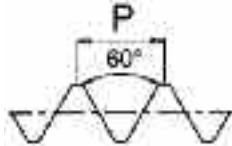
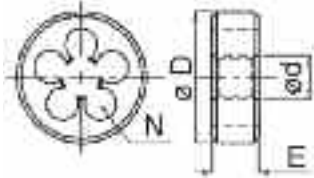
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO metric screw Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 210 101 Hahnreiter GL | 210 110 Hahnreiter 6e GL | 210 120 Hahnreiter MS | 210 105 Nirofix | 210 106 Nirofix 6e | | |
|---|--|--------------------------|-----------------------------|--------------------------|--------------------------------------|--------------------------------------|---------------|---|
| Material | Material | HSS | HSS | HSS | HSS-EP | HSS-EP | | |
| Toleranz | Tolerance | 6g | 6e | 6g | 6g | 6e | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,25 | 2 | 2 | | |
| Sonderwerkstoff | Special material | | | Messing Brass | rostfreie Stähle Stainless steels | rostfreie Stähle Stainless steels | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | 3.21 | 1.9.4 / 1.9.5 | 1.9.4 / 1.9.5 | | |
| Oberfläche | Surface | | | | Nit | Nit | | |
| Ausführung | Variation | geläppt | Abmaß geläppt | geläppt | geläppt | geläppt | | |
| | | <i>lapped</i> | <i>Undersize lapped</i> | <i>lapped</i> | <i>lapped</i> | <i>lapped</i> | | |
| d | P | Code | D x E | N | Dreh-Ø / Turning-Ø | | Verfügbarkeit | |
| | mm | | mm | | 6g | 6e | Availability | |
| M 1 | 0,25 | 01 | 16 x 2 | 3 | 0,97 | 0,92 | □ | □ |
| M 1,2 | 0,25 | 012 | 16 x 2 | 3 | 1,17 | 1,12 | □ | □ |
| M 1,4 | 0,3 | 0141 | 12 x 2,6 | 4 | 1,36 | 1,31 | □ | |
| M 1,4 | 0,3 | 0142 | 16 x 2,6 | 4 | 1,36 | 1,31 | x | x |
| M 1,6 | 0,35 | 0161 | 12 x 2,6 | 4 | 1,54 | 1,51 | □ | |
| M 1,6 | 0,35 | 0162 | 16 x 2,6 | 4 | 1,54 | 1,51 | x | x |
| M 1,7* | 0,35 | 0171 | 12 x 2,6 | 4 | 1,64 | 1,61 | □ | |
| M 1,7* | 0,35 | 0172 | 16 x 2,6 | 4 | 1,64 | 1,61 | □ | x |
| M 1,8 | 0,35 | 018 | 16 x 2,6 | 4 | 1,74 | 1,71 | □ | □ |
| M 2 | 0,4 | 021 | 12 x 3,5 | 4 | 1,94 | 1,90 | x | |
| M 2 | 0,4 | 023 | 16 x 3,5 | 4 | 1,94 | 1,90 | | x |
| M 2 | 0,4 | 024 | 16 x 5 | 4 | 1,94 | 1,90 | x | x |
| M 2,2 | 0,45 | 0221 | 16 x 3,5 | 4 | 2,13 | 2,10 | | □ |
| M 2,2 | 0,45 | 0222 | 16 x 5 | 4 | 2,13 | 2,10 | | |
| M 2,3* | 0,4 | 0231 | 12 x 3 | 4 | 2,24 | 2,20 | | |
| M 2,3* | 0,4 | 0232 | 16 x 3,5 | 4 | 2,24 | 2,20 | | x |
| M 2,3* | 0,4 | 0233 | 16 x 5 | 4 | 2,24 | 2,20 | | |
| M 2,5 | 0,45 | 0251 | 12 x 3,5 | 4 | 2,43 | 2,40 | □ | |
| M 2,5 | 0,45 | 0253 | 16 x 5 | 4 | 2,43 | 2,40 | x | x |
| M 2,6* | 0,45 | 0261 | 12 x 3,5 | 4 | 2,53 | 2,50 | | |
| M 2,6* | 0,45 | 0263 | 16 x 5 | 4 | 2,53 | 2,50 | x | x |
| M 3 | 0,5 | 031 | 12 x 4 | 4 | 2,92 | 2,89 | x | □ |
| M 3 | 0,5 | 033 | 16 x 5 | 4 | 2,92 | 2,89 | | x |
| M 3 | 0,5 | 034 | 20 x 5 | 4 | 2,92 | 2,89 | □ | x |
| M 3,5 | 0,6 | 0352 | 16 x 5 | 4 | 3,41 | 3,38 | x | □ |
| M 3,5 | 0,6 | 0353 | 20 x 5 | 4 | 3,41 | 3,38 | x | x |
| M 4 | 0,7 | 041 | 16 x 5 | 4 | 3,91 | 3,87 | x | x |
| M 4 | 0,7 | 042 | 20 x 5 | 4 | 3,91 | 3,87 | x | x |
| M 4 | 0,7 | 043 | 20 x 5 | 5 | 3,91 | 3,87 | x | |
| M 5 | 0,8 | 051 | 16 x 5 | 4 | 4,90 | 4,86 | x | x |
| M 5 | 0,8 | 052 | 20 x 7 | 4 | 4,90 | 4,86 | x | x |
| M 5 | 0,8 | 053 | 20 x 7 | 5 | 4,90 | 4,86 | □ | |
| M 6 | 1 | 061 | 16 x 5 | 5 | 5,88 | 5,85 | x | □ |
| M 6 | 1 | 062 | 20 x 7 | 4 | 5,88 | 5,85 | x | x |
| M 6 | 1 | 063 | 20 x 7 | 5 | 5,88 | 5,85 | x | x |

* DIN Profil
* Thread profile accord. to DIN

Fortsetzung nächste Seite
Continued on next page

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

Bis einschl. M 1,4 Toleranz 6h
up to M 1,4 incl. tolerance 6h

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

□ = Verfügbar auf Anfrage
□ = available on request

M

Metrisches ISO Gewinde DIN 13

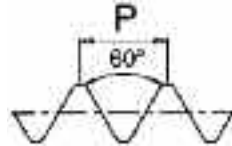
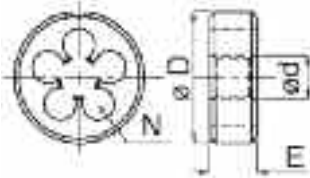
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO metric screw Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 210 101 Hahnreiter GL | 210 110 Hahnreiter 6e GL | 210 120 Hahnreiter MS | 210 105 Nirofix | 210 106 Nirofix 6e |
|---|--|--------------------------|-----------------------------|--------------------------|--------------------------------------|--------------------------------------|
| Material | Material | HSS | HSS | HSS | HSS-EP | HSS-EP |
| Toleranz | Tolerance | 6g | 6e | 6g | 6g | 6e |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,25 | 2 | 2 |
| Sonderwerkstoff | Special material | | | Messing Brass | rostfreie Stähle Stainless steels | rostfreie Stähle Stainless steels |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | 3.21 | 1.9.4 / 1.9.5 | 1.9.4 / 1.9.5 |
| Oberfläche | Surface | | | | Nit | Nit |
| Ausführung | Variation | geläppt | Abmaß geläppt | geläppt | geläppt | geläppt |
| | | <i>lapped</i> | <i>Undersize lapped</i> | <i>lapped</i> | <i>lapped</i> | <i>lapped</i> |

| d | P mm | Code | D x E mm | N | Dreh-Ø / Turning-Ø | | Verfügbarkeit Availability | | | | | | | |
|------|---------|------|-------------|---|--------------------|-------|-------------------------------|---------|---------|---------|---------|--|---|--|
| | | | | | 6g | 6e | 210 101 | 210 110 | 210 120 | 210 105 | 210 106 | | | |
| M 7 | 1 | 07 | 20 x 7 | 5 | 6,88 | 6,85 | □ | | | | | | | |
| M 7 | 1 | 071 | 25 x 9 | 4 | 6,88 | 6,85 | | | x | | x | | | |
| M 8 | 1,25 | 081 | 20 x 7 | 5 | 7,87 | 7,83 | x | □ | | | x | | □ | |
| M 8 | 1,25 | 082 | 25 x 9 | 4 | 7,87 | 7,83 | x | x | | | x | | | |
| M 8 | 1,25 | 083 | 25 x 9 | 5 | 7,87 | 7,83 | x | □ | | | x | | x | |
| M 10 | 1,5 | 102 | 25 x 9 | 5 | 9,85 | 9,81 | x | | | | x | | | |
| M 10 | 1,5 | 103 | 30 x 11 | 5 | 9,85 | 9,81 | x | | | | x | | x | |
| M 10 | 1,5 | 104 | 30 x 11 | 4 | 9,85 | 9,81 | | | x | | | | | |
| M 12 | 1,75 | 121 | 25 x 9 | 5 | 11,83 | 11,80 | □ | | | | | | | |
| M 12 | 1,75 | 122 | 30 x 11 | 5 | 11,83 | 11,80 | □ | | | | | | | |
| M 12 | 1,75 | 124 | 38 x 14 | 4 | 11,83 | 11,80 | x | x | x | | | | | |
| M 12 | 1,75 | 123 | 38 x 14 | 5 | 11,83 | 11,80 | x | | | | x | | x | |
| M 14 | 2 | 14 | 38 x 14 | 5 | 13,82 | 13,79 | | | | | x | | | |
| M 16 | 2 | 16 | 45 x 18 | 5 | 15,82 | 15,79 | □ | | | | x | | | |

* DIN Profil
* Thread profile accord. to DIN

Bis einschl. M 1,4 Toleranz 6h
up to M 1,4 incl. tolerance 6h

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage
□ = available on request

M

Metrisches ISO Gewinde DIN 13

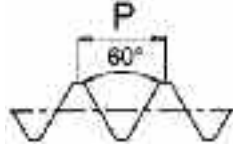
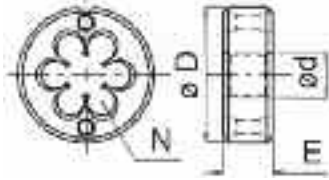
Baumaße Werknorm, mit Aufschraublöchern

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO metric screw Threads, DIN 13

Dimensions manufacturer's standard, with fixing holes

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 210 401 Hahnreiter GL | 210 411 Hahnreiter 6e GL | 210 420 Hahnreiter MS | 210 414 Hahnreiter 6e MS | 210 405 Nirofix | | |
|---|--|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------------------|---------------|---|
| Material | Material | HSS | HSS | HSS | HSS | HSS-EP | | |
| Toleranz | Tolerance | 6g | 6e | 6g | 6e | 6g | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,25 | 1,25 | 2 | | |
| Sonderwerkstoff | Special material | | | Messing Brass | Messing Brass | rostfreie Stähle Stainless steels | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | 3.21 | 3.21 | 1.9.4 / 1.9.5 | | |
| Oberfläche | Surface | | | | | Nit | | |
| Ausführung | Variation | geläppt | Abmaß geläppt | geläppt | Abmaß geläppt | geläppt | | |
| | | <i>lapped</i> | <i>Undersize lapped</i> | <i>lapped</i> | <i>Undersize lapped</i> | <i>lapped</i> | | |
| d | P | Code | D x E | N | Dreh-Ø / Turning-Ø | | Verfügbarkeit | |
| | mm | | mm | | 6g | 6e | Availability | |
| M 1 | 0,25 | 01 | 16 x 2 | 3 | 0,97 | 0,92 | □ | |
| M 1,1 | 0,25 | 011 | 16 x 2 | 3 | 1,07 | 1,02 | □ | |
| M 1,2 | 0,25 | 012 | 16 x 2 | 3 | 1,17 | 1,12 | □ | |
| M 1,4 | 0,3 | 0142 | 16 x 2,6 | 4 | 1,36 | 1,31 | x | |
| M 1,6 | 0,35 | 0162 | 16 x 2,6 | 4 | 1,54 | 1,51 | x | □ |
| M 1,7* | 0,35 | 0172 | 16 x 2,6 | 4 | 1,64 | 1,61 | x | |
| M 1,8 | 0,35 | 018 | 16 x 2,6 | 4 | 1,74 | 1,71 | □ | |
| M 2 | 0,4 | 021 | 12 x 3,5 | 4 | 1,94 | 1,90 | □ | |
| M 2 | 0,4 | 022 | 16 x 3,5 | 4 | 1,94 | 1,90 | x | □ |
| M 2,2 | 0,45 | 0221 | 16 x 3,5 | 4 | 2,13 | 2,10 | □ | |
| M 2,3* | 0,4 | 0232 | 16 x 3,5 | 4 | 2,24 | 2,20 | x | |
| M 2,5 | 0,45 | 0251 | 12 x 3,5 | 4 | 2,43 | 2,40 | □ | |
| M 2,5 | 0,45 | 0252 | 16 x 3,5 | 4 | 2,43 | 2,40 | x | x |
| M 2,6* | 0,45 | 0262 | 16 x 3,5 | 4 | 2,53 | 2,50 | x | |
| M 3 | 0,5 | 032 | 16 x 3,5 | 4 | 2,92 | 2,89 | x | x |
| M 3,5 | 0,6 | 0351 | 16 x 4 | 4 | 3,41 | 3,38 | x | □ |
| M 4 | 0,7 | 041 | 16 x 5 | 4 | 3,91 | 3,87 | x | x |
| M 4 | 0,7 | 042 | 20 x 5 | 4 | 3,91 | 3,87 | x | □ |
| M 4,5 | 0,75 | 045 | 20 x 7 | 4 | 4,41 | 4,37 | □ | |
| M 5 | 0,8 | 052 | 20 x 7 | 4 | 4,90 | 4,86 | x | x |
| M 6 | 1 | 062 | 20 x 7 | 4 | 5,88 | 5,85 | x | x |
| M 7 | 1 | 07 | 25 x 7 | 4 | 6,88 | 6,85 | x | □ |
| M 8 | 1,25 | 082 | 25 x 9 | 4 | 7,87 | 7,83 | x | x |
| M 10 | 1,5 | 101 | 25 x 9 | 4 | 9,85 | 9,81 | x | □ |
| M 10 | 1,5 | 104 | 30 x 11 | 6 | 9,85 | 9,81 | x | x |
| M 12 | 1,75 | 121 | 30 x 11 | 6 | 11,83 | 11,80 | x | |
| M 12 | 1,75 | 122 | 35 x 12 | 6 | 11,83 | 11,80 | □ | |
| M 14 | 2 | 14 | 35 x 14 | 6 | 13,82 | 13,79 | □ | |
| M 16 | 2 | 16 | 45 x 18 | 6 | 15,82 | 15,79 | □ | |

* DIN Profil
* Thread profile accord. to DIN

Bis einschl. M 1,4 Toleranz 6h
up to M 1,4 incl. tolerance 6h

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage
□ = available on request

M

Metrisches ISO Gewinde DIN 13

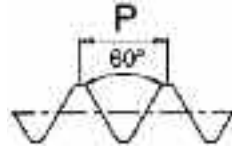
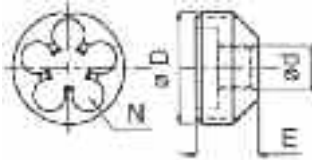
Baumaße Werknorm, **Glockenform**

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO metric screw Threads, DIN 13

Dimensions manufacturer's standard, bell form

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | | Catalogue No. Name | 210 201 Hahnreiter GL | 210 211 Hahnreiter 6e GL | 210 220 Hahnreiter MS | 210 214 Hahnreiter 6e MS | 210 205 Nirofix | |
|---|---------|--|--------------------------|---|-----------------------------|---|--------------------------------------|---|
| Material | | Material | HSS | HSS | HSS | HSS | HSS-EP | |
| Toleranz | | Tolerance | 6g | 6e | 6g | 6e | 6g | |
| Anschnittlänge, Gang | | Chamfer length, threads | 1,75 | 1,75 | 1,25 | 1,25 | 2 | |
| Sonderwerkstoff | | Special material | | | Messing Brass | Messing Brass | rostfreie Stähle Stainless steels | |
| Zerspanungsgruppe, siehe Ausklappseite links | | Machinability-group, See folder left page | | | 3.21 | 3.21 | 1.9.4 / 1.9.5 | |
| Oberfläche | | Surface | | | | | Nit | |
| Ausführung | | Variation | geläppt <i>lapped</i> | Abmaß geläppt <i>Undersize lapped</i> | geläppt <i>lapped</i> | Abmaß geläppt <i>Undersize lapped</i> | geläppt <i>lapped</i> | |
| d | P mm | Code | D x E mm | N | Dreh-Ø / Turning-Ø 6g 6e | | Verfügbarkeit Availability | |
| M 2 | 0,4 | 02 | 16 x 8 | 4 | 1,94 | 1,90 | x | □ |
| M 2,2 | 0,45 | 022 | 16 x 8 | 4 | 2,13 | 2,10 | □ | □ |
| M 2,3* | 0,4 | 023 | 16 x 8 | 4 | 2,24 | 2,20 | □ | □ |
| M 2,5 | 0,45 | 025 | 16 x 8 | 4 | 2,43 | 2,40 | x | □ |
| M 2,6* | 0,45 | 026 | 16 x 8 | 4 | 2,53 | 2,50 | □ | □ |
| M 3 | 0,5 | 031 | 16 x 8 | 4 | 2,92 | 2,89 | x | x |
| M 3 | 0,5 | 032 | 20 x 9,5 | 4 | 2,92 | 2,89 | □ | □ |
| M 3,5 | 0,6 | 035 | 16 x 9,5 | 4 | 3,41 | 3,38 | □ | □ |
| M 4 | 0,7 | 041 | 16 x 9,5 | 4 | 3,91 | 3,87 | x | x |
| M 4 | 0,7 | 043 | 20 x 9,5 | 4 | 3,91 | 3,87 | x | □ |
| M 4,5 | 0,75 | 045 | 16 x 9,5 | 4 | 4,41 | 4,37 | □ | □ |
| M 5 | 0,8 | 051 | 16 x 9,5 | 4 | 4,90 | 4,86 | x | x |
| M 5 | 0,8 | 053 | 20 x 9,5 | 4 | 4,90 | 4,86 | x | □ |
| M 6 | 1 | 061 | 16 x 9,5 | 4 | 5,88 | 5,85 | x | □ |
| M 6 | 1 | 062 | 20 x 9,5 | 4 | 5,88 | 5,85 | x | □ |
| M 7 | 1 | 07 | 25 x 14 | 4 | 6,88 | 6,85 | □ | □ |
| M 8 | 1,25 | 081 | 25 x 14 | 5 | 7,87 | 7,83 | x | □ |
| M 10 | 1,5 | 101 | 25 x 14 | 5 | 9,85 | 9,81 | □ | □ |
| M 12 | 1,75 | 12 | 30 x 18 | 5 | 11,83 | 11,80 | □ | □ |

* DIN Profil
* Thread profile accord. to DIN

Bis einschl. M 1,4 Toleranz 6h
up to M 1,4 incl. tolerance 6h

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage
□ = available on request

M

Metrisches ISO Gewinde DIN 13

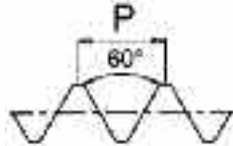
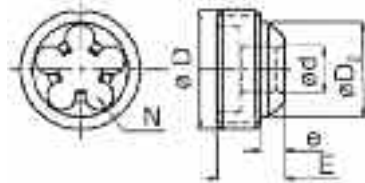
Baumaße Werknorm, mit Vorbau

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO metric screw Threads, DIN 13

Dimensions manufacturer's standard, projection form

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 210 301 Hahnreiter GL | 210 320 Hahnreiter MS |
|---|--|--------------------------|--------------------------|
| Material | Material | HSS | HSS |
| Toleranz | Tolerance | 6g | 6g |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,25 |
| Sonderwerkstoff | Special material | | Messing Brass |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | 3.21 |
| Oberfläche | Surface | | |
| Ausführung | Variation | geläppt lapped | geläppt lapped |

| d | P mm | Code | D x E mm | N | D2 x e mm | Dreh-Ø / Turning-Ø 6g 6e | | Verfügbarkeit Availability | | | | |
|------|---------|------|-------------|---|--------------|-----------------------------|-------|-------------------------------|--------------------------|--|--------------------------|--|
| M 3 | 0,5 | 032 | 16 x 9,5 | 4 | 12,5 x 4,5 | 2,92 | 2,89 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| M 4 | 0,7 | 042 | 16 x 9,5 | 4 | 12,5 x 4,5 | 3,91 | 3,87 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| M 4 | 0,7 | 044 | 20 x 12 | 4 | 16 x 7 | 3,91 | 3,87 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| M 5 | 0,8 | 052 | 16 x 9,5 | 4 | 12,5 x 4,5 | 4,90 | 4,86 | | | | | |
| M 5 | 0,8 | 054 | 20 x 12 | 4 | 16 x 5 | 4,90 | 4,86 | | | | | |
| M 6 | 1 | 063 | 20 x 12 | 4 | 16 x 5 | 5,88 | 5,85 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| M 8 | 1,25 | 082 | 25 x 14 | 5 | 20 x 5 | 7,87 | 7,83 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| M 10 | 1,5 | 102 | 25 x 14 | 5 | 20 x 5 | 9,85 | 9,81 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| M 12 | 1,75 | 12 | 30 x 18 | 5 | 25 x 7 | 11,83 | 11,80 | | | | | |

* DIN Profil
* Thread profile accord. to DIN

Bis einschl. M 1,4 Toleranz 6h
up to M 1,4 incl. tolerance 6h

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

= Verfügbar auf Anfrage
 = available on request

MF

Metrisches ISO Feingewinde DIN 13

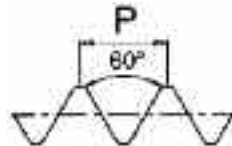
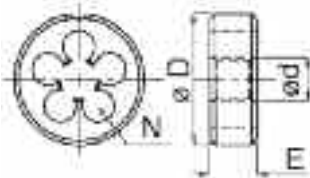
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO Metric Fine Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 211 000 Hahnreiter | 211 001 Hahnreiter GL | 211 002 Hahnreiter LH | 211 010 Hahnreiter 6e | 211 011 Hahnreiter 6e GL |
|---|--|-----------------------|--------------------------|--------------------------|--------------------------|---|
| Material | Material | HSS | HSS | HSS | HSS | HSS |
| Toleranz | Tolerance | 6g | 6g | 6g | 6e | 6e |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,75 | 1,75 | 1,75 |
| Sonderwerkstoff | Special material | | | | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | | | |
| Oberfläche | Surface | | | | | |
| Ausführung | Variation | | geläppt lapped | Links Left hand | Abmaß Undersize | Abmaß geläppt Undersize lapped |

| d | P | Code | D x E | N | Dreh-Ø / Turning-Ø 6g 6e | | Verfügbarkeit Availability | | | | | |
|-------|--------|--------|---------|---|-----------------------------|-------|-------------------------------|---|---|--|---|--|
| mm | mm | | mm | | | | | | | | | |
| M 2 | x 0,25 | 02025 | 16 x 5 | 4 | 1,97 | 1,92 | | | | | | |
| M 2,2 | x 0,25 | 022025 | 16 x 5 | 4 | 2,17 | 2,12 | | | | | | |
| M 2,5 | x 0,35 | 025035 | 16 x 5 | 4 | 2,44 | 2,41 | □ | □ | □ | | □ | |
| M 3 | x 0,35 | 03035 | 20 x 5 | 4 | 2,94 | 2,91 | x | x | □ | | □ | |
| M 3,5 | x 0,35 | 035035 | 20 x 5 | 4 | 3,44 | 3,41 | x | x | □ | | □ | |
| M 4 | x 0,35 | 04035 | 20 x 5 | 4 | 3,94 | 3,91 | x | x | □ | | □ | |
| M 4 | x 0,5 | 0405 | 20 x 5 | 4 | 3,92 | 3,89 | x | x | x | | □ | |
| M 5 | x 0,5 | 0505 | 20 x 5 | 4 | 4,92 | 4,89 | x | x | x | | x | |
| M 6 | x 0,5 | 0605 | 20 x 5 | 4 | 5,92 | 5,89 | x | x | x | | x | |
| M 6 | x 0,75 | 06075 | 20 x 7 | 4 | 5,90 | 5,87 | x | x | x | | x | |
| M 7 | x 0,75 | 07075 | 25 x 9 | 4 | 6,90 | 6,87 | x | x | | | x | |
| M 8 | x 0,5 | 0805 | 25 x 9 | 5 | 7,92 | 7,89 | x | x | x | | x | |
| M 8 | x 0,75 | 08075 | 25 x 9 | 4 | 7,90 | 7,87 | x | x | x | | x | |
| M 8 | x 1 | 081 | 25 x 9 | 4 | 7,88 | 7,85 | x | x | x | | x | |
| M 9 | x 0,75 | 09075 | 25 x 9 | 5 | 8,90 | 8,87 | x | x | □ | | | |
| M 9 | x 1 | 091 | 25 x 9 | 5 | 8,88 | 8,85 | x | x | □ | | | |
| M 10 | x 0,5 | 1005 | 30 x 11 | 5 | 9,92 | 9,89 | x | x | □ | | □ | |
| M 10 | x 0,75 | 10075 | 30 x 11 | 5 | 9,90 | 9,87 | x | x | x | | x | |
| M 10 | x 1 | 101 | 30 x 11 | 5 | 9,88 | 9,85 | x | x | x | | x | |
| M 10 | x 1,25 | 10125 | 30 x 11 | 4 | 9,86 | 9,83 | x | x | x | | □ | |
| M 12 | x 0,5 | 1205 | 38 x 10 | 5 | 11,92 | 11,89 | x | x | □ | | | |
| M 12 | x 0,75 | 12075 | 38 x 10 | 5 | 11,91 | 11,87 | x | x | □ | | x | |
| M 12 | x 1 | 121 | 38 x 10 | 5 | 11,88 | 11,85 | x | x | x | | x | |
| M 12 | x 1,25 | 12125 | 38 x 10 | 4 | 11,86 | 11,83 | x | x | x | | □ | |
| M 12 | x 1,5 | 1215 | 38 x 10 | 4 | 11,85 | 11,81 | x | x | x | | x | |
| M 12 | x 1,5 | 1216 | 38 x 10 | 5 | 11,85 | 11,81 | | | | | | |
| M 13 | x 1 | 131 | 38 x 10 | 5 | 12,88 | 12,85 | x | x | □ | | □ | |
| M 14 | x 1 | 141 | 38 x 10 | 5 | 13,88 | 13,85 | x | x | x | | x | |
| M 14 | x 1,25 | 14125 | 38 x 10 | 5 | 13,86 | 13,83 | x | x | x | | □ | |
| M 14 | x 1,5 | 1415 | 38 x 10 | 5 | 13,85 | 13,81 | x | x | x | | x | |
| M 15 | x 1 | 151 | 38 x 10 | 5 | 14,88 | 14,85 | x | x | □ | | □ | |
| M 15 | x 1,5 | 1515 | 38 x 10 | 5 | 14,85 | 14,81 | x | x | □ | | | |
| M 16 | x 1 | 161 | 45 x 14 | 5 | 15,88 | 15,85 | x | x | x | | x | |
| M 16 | x 1,25 | 16125 | 45 x 14 | 5 | 15,87 | 15,83 | x | x | | | | |
| M 16 | x 1,5 | 1615 | 45 x 14 | 5 | 15,85 | 15,81 | x | x | x | | x | |

Bis einschl. Stg. 0,25 Toleranz 6h
up to 0,25p incl. tolerance 6h

Fortsetzung Seite S13
To be continued on page S13

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

□ = Verfügbar auf Anfrage
□ = available on request

MF

Metrisches ISO Feingewinde DIN 13

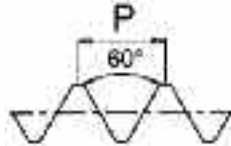
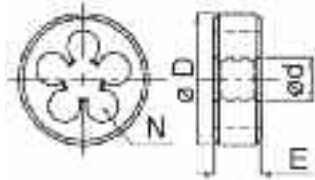
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO Metric Fine Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 211 008 Hahnreiter 70 | 211 020 Hahnreiter MS | 211 005 Nirofix | | |
|---|--|---------------------------------------|--------------------------|--------------------------------------|--|--|
| Material | Material | HSS | HSS | HSS-EP | | |
| Toleranz | Tolerance | 6g | 6g | 6g | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,25 | 1,25 | 2 | | |
| Sonderwerkstoff | Special material | | Messing Brass | rostfreie Stähle Stainless steels | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | 3.21 | 1.9.4 / 1.9.5 | | |
| Oberfläche | Surface | | | Nit | | |
| Ausführung | Variation | kurzer Anschnitt short chamfer | geläppt lapped | geläppt lapped | | |

| d | P mm | Code | D x E mm | N | Dreh-Ø / Turning-Ø 6g 6e | | Verfügbarkeit Availability | | | | |
|-------|---------|--------|-------------|---|-----------------------------|-------|-------------------------------|-------------------------------------|-------------------------------------|--|--|
| M 2 | x 0,25 | 02025 | 16 x 5 | 4 | 1,97 | 1,92 | | <input type="checkbox"/> | | | |
| M 2,2 | x 0,25 | 022025 | 16 x 5 | 4 | 2,17 | 2,12 | | <input type="checkbox"/> | | | |
| M 2,5 | x 0,35 | 025035 | 16 x 5 | 4 | 2,44 | 2,41 | | <input type="checkbox"/> | | | |
| M 3 | x 0,35 | 03035 | 20 x 5 | 4 | 2,94 | 2,91 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 3,5 | x 0,35 | 035035 | 20 x 5 | 4 | 3,44 | 3,41 | | | <input type="checkbox"/> | | |
| M 4 | x 0,35 | 04035 | 20 x 5 | 4 | 3,94 | 3,91 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 4 | x 0,5 | 0405 | 20 x 5 | 4 | 3,92 | 3,89 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| M 5 | x 0,5 | 0505 | 20 x 5 | 4 | 4,92 | 4,89 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 6 | x 0,5 | 0605 | 20 x 5 | 4 | 5,92 | 5,89 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 6 | x 0,75 | 06075 | 20 x 7 | 4 | 5,90 | 5,87 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 7 | x 0,75 | 07075 | 25 x 9 | 4 | 6,90 | 6,87 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| M 8 | x 0,5 | 0805 | 25 x 9 | 5 | 7,92 | 7,89 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 8 | x 0,75 | 08075 | 25 x 9 | 4 | 7,90 | 7,87 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 8 | x 1 | 081 | 25 x 9 | 4 | 7,88 | 7,85 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 9 | x 0,75 | 09075 | 25 x 9 | 5 | 8,90 | 8,87 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 9 | x 1 | 091 | 25 x 9 | 5 | 8,88 | 8,85 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 10 | x 0,5 | 1005 | 30 x 11 | 5 | 9,92 | 9,89 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 10 | x 0,75 | 10075 | 30 x 11 | 5 | 9,90 | 9,87 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 10 | x 1 | 101 | 30 x 11 | 5 | 9,88 | 9,85 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 10 | x 1,25 | 10125 | 30 x 11 | 4 | 9,86 | 9,83 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 12 | x 0,5 | 1205 | 38 x 10 | 5 | 11,92 | 11,89 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 12 | x 0,75 | 12075 | 38 x 10 | 5 | 11,91 | 11,87 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 12 | x 1 | 121 | 38 x 10 | 5 | 11,88 | 11,85 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 12 | x 1,25 | 12125 | 38 x 10 | 4 | 11,86 | 11,83 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 12 | x 1,5 | 1215 | 38 x 10 | 4 | 11,85 | 11,81 | | <input checked="" type="checkbox"/> | | | |
| M 12 | x 1,5 | 1216 | 38 x 10 | 5 | 11,85 | 11,81 | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | | |
| M 13 | x 1 | 131 | 38 x 10 | 5 | 12,88 | 12,85 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| M 14 | x 1 | 141 | 38 x 10 | 5 | 13,88 | 13,85 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 14 | x 1,25 | 14125 | 38 x 10 | 5 | 13,86 | 13,83 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 14 | x 1,5 | 1415 | 38 x 10 | 5 | 13,85 | 13,81 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 15 | x 1 | 151 | 38 x 10 | 5 | 14,88 | 14,85 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| M 15 | x 1,5 | 1515 | 38 x 10 | 5 | 14,85 | 14,81 | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| M 16 | x 1 | 161 | 45 x 14 | 5 | 15,88 | 15,85 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| M 16 | x 1,25 | 16125 | 45 x 14 | 5 | 15,87 | 15,83 | | | <input type="checkbox"/> | | |
| M 16 | x 1,5 | 1615 | 45 x 14 | 5 | 15,85 | 15,81 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |

Fortsetzung Seite S14

To be continued on page S14

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage

□ = available on request

MF

Metrisches ISO Feingewinde DIN 13

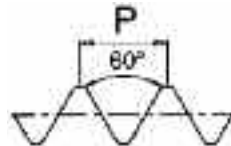
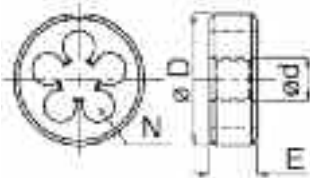
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO Metric Fine Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 211 000 Hahnreiter | 211 001 Hahnreiter GL | 211 002 Hahnreiter LH | 211 010 Hahnreiter 6e | 211 011 Hahnreiter 6e GL | | | | |
|---|--|-----------------------|--------------------------|--------------------------|--------------------------|-----------------------------|---|---|---|---|
| Material | Material | HSS | HSS | HSS | HSS | HSS | | | | |
| Toleranz | Tolerance | 6g | 6g | 6g | 6e | 6e | | | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,75 | 1,75 | 1,75 | | | | |
| Sonderwerkstoff | Special material | | | | | | | | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | | | | | | | |
| Oberfläche | Surface | | | | | | | | | |
| Ausführung | Variation | | geläppt | Links | Abmaß | Abmaß geläppt | | | | |
| | | | lapped | Left hand | Undersize | Undersize lapped | | | | |
| d | P | Code | D x E | N | Dreh-Ø / Turning-Ø | Verfügbarkeit | | | | |
| | mm | | mm | | 6g 6e | Availability | | | | |
| M 18 | x 1 | 181 | 45 x 14 | 5 | 17,88 17,85 | x | x | x | x | x |
| M 18 | x 1,5 | 1815 | 45 x 14 | 5 | 17,85 17,81 | x | x | x | x | x |
| M 18 | x 2 | 182 | 45 x 14 | 5 | 17,82 17,78 | x | x | □ | | |
| M 20 | x 1 | 201 | 45 x 14 | 6 | 19,88 19,85 | x | x | x | x | x |
| M 20 | x 1,5 | 2015 | 45 x 14 | 6 | 19,85 19,81 | x | x | x | x | x |
| M 20 | x 2 | 202 | 45 x 14 | 6 | 19,82 19,78 | x | x | x | | |
| M 22 | x 1 | 221 | 55 x 16 | 6 | 21,88 21,85 | x | x | x | x | x |
| M 22 | x 1,5 | 2215 | 55 x 16 | 5 | 21,85 21,81 | x | x | x | x | x |
| M 22 | x 1,5 | 2216 | 55 x 16 | 6 | 21,85 21,81 | | | | | |
| M 22 | x 2 | 222 | 55 x 16 | 5 | 21,82 21,78 | x | x | □ | | |
| M 24 | x 1 | 241 | 55 x 16 | 6 | 23,88 23,85 | x | x | x | □ | □ |
| M 24 | x 1,5 | 2415 | 55 x 16 | 6 | 23,85 23,81 | x | x | x | x | x |
| M 24 | x 2 | 242 | 55 x 16 | 6 | 23,82 23,78 | x | x | x | | |
| M 25 | x 1 | 251 | 55 x 16 | 6 | 24,88 24,85 | x | x | □ | | □ |
| M 25 | x 1,5 | 2515 | 55 x 16 | 6 | 24,85 24,81 | x | x | x | □ | □ |
| M 27 | x 1 | 271 | 65 x 18 | 6 | 26,88 26,85 | x | x | □ | □ | □ |
| M 27 | x 1,5 | 2715 | 65 x 18 | 6 | 26,85 26,81 | x | x | x | □ | □ |
| M 27 | x 2 | 272 | 65 x 18 | 6 | 26,82 26,78 | x | x | □ | | |
| M 28 | x 1,5 | 2815 | 65 x 18 | 6 | 27,85 27,81 | x | x | x | □ | □ |
| M 28 | x 2 | 282 | 65 x 18 | 6 | 27,82 27,79 | x | x | □ | | |
| M 30 | x 1 | 301 | 65 x 18 | 7 | 29,88 29,85 | x | x | □ | | |
| M 30 | x 1,5 | 3015 | 65 x 18 | 6 | 29,85 29,81 | x | x | x | □ | □ |
| M 30 | x 2 | 302 | 65 x 18 | 6 | 29,82 29,78 | x | x | x | | |
| M 32 | x 1,5 | 3215 | 65 x 18 | 7 | 31,85 31,81 | x | x | x | □ | □ |
| M 32 | x 2 | 322 | 65 x 18 | 7 | 31,82 31,79 | x | x | □ | | |
| M 33 | x 1,5 | 3315 | 65 x 18 | 7 | 32,87 32,81 | x | x | | □ | □ |
| M 33 | x 2 | 332 | 65 x 18 | 7 | 32,82 32,79 | x | x | □ | | |
| M 34 | x 1,5 | 3415 | 65 x 18 | 7 | 33,85 33,81 | x | x | □ | | |
| M 35 | x 1,5 | 3515 | 65 x 18 | 8 | 34,85 34,81 | x | x | x | □ | □ |
| M 36 | x 1,5 | 3615 | 65 x 18 | 8 | 35,85 35,81 | x | x | x | □ | □ |
| M 36 | x 2 | 362 | 65 x 18 | 8 | 35,82 35,79 | x | x | □ | | |
| M 36 | x 3 | 363 | 65 x 25 | 7 | 35,77 35,73 | x | x | □ | | |
| M 38 | x 1,5 | 3815 | 75 x 20 | 7 | 37,85 37,81 | x | x | x | | |
| M 39 | x 1,5 | 3915 | 75 x 20 | 7 | 38,85 38,81 | x | x | | | |
| M 39 | x 2 | 392 | 75 x 20 | 7 | 38,82 38,79 | x | x | □ | | |

Fortsetzung Seite S15

To be continued on page S15

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage
□ = available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

MF

Metrisches ISO Feingewinde DIN 13

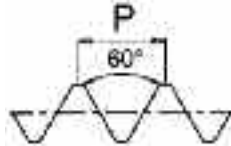
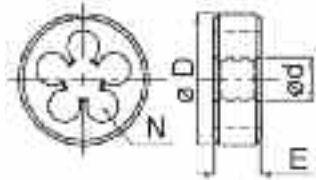
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO Metric Fine Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 211 020 Hahnreiter MS | 211 005 Nirofix | | | |
|---|--|--------------------------|--------------------------------------|--|--|--|
| Material | Material | HSS | HSS-EP | | | |
| Toleranz | Tolerance | 6g | 6g | | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,25 | 2 | | | |
| Sonderwerkstoff | Special material | Messing Brass | rostfreie Stähle Stainless steels | | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | 3.21 | 1.9.4 / 1.9.5 | | | |
| Oberfläche | Surface | | Nit | | | |
| Ausführung | Variation | geläppt lapped | geläppt lapped | | | |

| d | P mm | Code | D x E mm | N | Dreh-Ø / Turning-Ø 6g 6e | Verfügbarkeit Availability | | | | |
|------|---------|------|-------------|---|-----------------------------|-------------------------------|---|--|--|--|
| M 18 | x 1 | 181 | 45 x 14 | 5 | 17,88 17,85 | x | □ | | | |
| M 18 | x 1,5 | 1815 | 45 x 14 | 5 | 17,85 17,81 | x | x | | | |
| M 18 | x 2 | 182 | 45 x 14 | 5 | 17,82 17,78 | □ | | | | |
| M 20 | x 1 | 201 | 45 x 14 | 6 | 19,88 19,85 | x | x | | | |
| M 20 | x 1,5 | 2015 | 45 x 14 | 6 | 19,85 19,81 | x | x | | | |
| M 20 | x 2 | 202 | 45 x 14 | 6 | 19,82 19,78 | □ | □ | | | |
| M 22 | x 1 | 221 | 55 x 16 | 6 | 21,88 21,85 | x | □ | | | |
| M 22 | x 1,5 | 2215 | 55 x 16 | 5 | 21,85 21,81 | x | | | | |
| M 22 | x 1,5 | 2216 | 55 x 16 | 6 | 21,85 21,81 | | x | | | |
| M 22 | x 2 | 222 | 55 x 16 | 5 | 21,82 21,78 | | □ | | | |
| M 24 | x 1 | 241 | 55 x 16 | 6 | 23,88 23,85 | □ | □ | | | |
| M 24 | x 1,5 | 2415 | 55 x 16 | 6 | 23,85 23,81 | x | x | | | |
| M 24 | x 2 | 242 | 55 x 16 | 6 | 23,82 23,78 | □ | □ | | | |
| M 25 | x 1 | 251 | 55 x 16 | 6 | 24,88 24,85 | x | □ | | | |
| M 25 | x 1,5 | 2515 | 55 x 16 | 6 | 24,85 24,81 | | □ | | | |
| M 27 | x 1 | 271 | 65 x 18 | 6 | 26,88 26,85 | | | | | |
| M 27 | x 1,5 | 2715 | 65 x 18 | 6 | 26,85 26,81 | □ | □ | | | |
| M 27 | x 2 | 272 | 65 x 18 | 6 | 26,82 26,78 | | □ | | | |
| M 28 | x 1,5 | 2815 | 65 x 18 | 6 | 27,85 27,81 | □ | □ | | | |
| M 28 | x 2 | 282 | 65 x 18 | 6 | 27,82 27,79 | | | | | |
| M 30 | x 1 | 301 | 65 x 18 | 7 | 29,88 29,85 | □ | □ | | | |
| M 30 | x 1,5 | 3015 | 65 x 18 | 6 | 29,85 29,81 | □ | x | | | |
| M 30 | x 2 | 302 | 65 x 18 | 6 | 29,82 29,78 | □ | □ | | | |
| M 32 | x 1,5 | 3215 | 65 x 18 | 7 | 31,85 31,81 | □ | | | | |
| M 32 | x 2 | 322 | 65 x 18 | 7 | 31,82 31,79 | | □ | | | |
| M 33 | x 1,5 | 3315 | 65 x 18 | 7 | 32,87 32,81 | □ | □ | | | |
| M 33 | x 2 | 332 | 65 x 18 | 7 | 32,82 32,79 | | □ | | | |
| M 34 | x 1,5 | 3415 | 65 x 18 | 7 | 33,85 33,81 | □ | | | | |
| M 35 | x 1,5 | 3515 | 65 x 18 | 8 | 34,85 34,81 | □ | □ | | | |
| M 36 | x 1,5 | 3615 | 65 x 18 | 8 | 35,85 35,81 | □ | | | | |
| M 36 | x 2 | 362 | 65 x 18 | 8 | 35,82 35,79 | □ | □ | | | |
| M 36 | x 3 | 363 | 65 x 25 | 7 | 35,77 35,73 | | | | | |
| M 38 | x 1,5 | 3815 | 75 x 20 | 7 | 37,85 37,81 | □ | □ | | | |
| M 39 | x 1,5 | 3915 | 75 x 20 | 7 | 38,85 38,81 | | □ | | | |
| M 39 | x 2 | 392 | 75 x 20 | 7 | 38,82 38,79 | | | | | |

Fortsetzung Seite S16
To be continued on page S16

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage
□ = available on request

MF

Metrisches ISO Feingewinde DIN 13

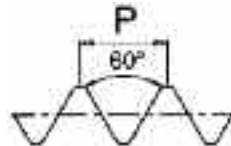
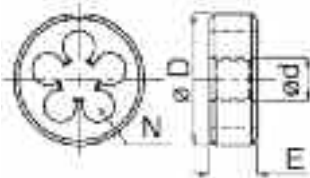
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO Metric Fine Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | | 211 000 Hahnreiter | 211 001 Hahnreiter GL | 211 002 Hahnreiter LH | | | |
|---|--|------|-----------------------|--------------------------|-----------------------------|-------|-------------------------------|---|
| Material | Material | | HSS | HSS | HSS | | | |
| Toleranz | Tolerance | | 6g | 6g | 6g | | | |
| Anschnittlänge, Gang | Chamfer length, threads | | 1,75 | 1,75 | 1,75 | | | |
| Sonderwerkstoff | Special material | | | | | | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | | | | | |
| Oberfläche | Surface | | | | | | | |
| Ausführung | Variation | | | geläppt | Links | | | |
| | | | | lapped | Left hand | | | |
| d | P mm | Code | D x E mm | N | Dreh-Ø / Turning-Ø 6g 6e | | Verfügbarkeit Availability | |
| M 39 | x 3 | 393 | 75 x 20 | 7 | 38,77 | 38,73 | x | x |
| M 40 | x 1,5 | 4015 | 75 x 20 | 8 | 39,85 | 39,81 | x | x |
| M 40 | x 2 | 402 | 75 x 20 | 7 | 39,82 | 39,79 | x | x |
| M 42 | x 1,5 | 4215 | 75 x 20 | 8 | 41,85 | 41,81 | x | x |
| M 42 | x 2 | 422 | 75 x 20 | 8 | 41,82 | 41,79 | x | x |
| M 42 | x 3 | 423 | 75 x 20 | 8 | 41,77 | 41,73 | x | x |
| M 45 | x 1,5 | 4515 | 90 x 22 | 7 | 44,85 | 44,81 | x | x |
| M 45 | x 2 | 452 | 90 x 22 | 7 | 44,82 | 44,79 | x | x |
| M 45 | x 3 | 453 | 90 x 22 | 7 | 44,77 | 44,73 | x | x |
| M 48 | x 1,5 | 4815 | 90 x 22 | 8 | 47,85 | 47,81 | x | x |
| M 48 | x 2 | 482 | 90 x 22 | 8 | 47,82 | 47,79 | x | x |
| M 48 | x 3 | 483 | 90 x 22 | 7 | 47,77 | 47,73 | x | x |
| M 50 | x 1,5 | 5015 | 90 x 22 | 8 | 49,85 | 49,81 | x | x |
| M 50 | x 2 | 502 | 90 x 22 | 8 | 49,82 | 49,79 | x | x |
| M 52 | x 1,5 | 5215 | 90 x 22 | 9 | 51,85 | 51,81 | x | x |
| M 52 | x 2 | 522 | 90 x 22 | 9 | 51,82 | 51,79 | x | x |
| M 52 | x 3 | 523 | 90 x 22 | 8 | 51,77 | 51,73 | x | x |
| M 56 | x 1,5 | 5615 | 105 x 22 | 8 | 55,85 | 55,81 | x | x |
| M 56 | x 2 | 562 | 105 x 22 | 8 | 55,82 | 55,79 | x | x |
| M 58 | x 1,5 | 5815 | 105 x 22 | 8 | 57,85 | 57,81 | x | x |
| M 60 | x 1,5 | 6015 | 105 x 22 | 9 | 59,85 | 59,81 | x | x |
| M 60 | x 2 | 602 | 105 x 22 | 9 | 59,82 | 59,79 | x | x |
| M 60 | x 3 | 603 | 105 x 22 | 8 | 59,77 | 59,73 | □ | □ |
| M 64 | x 2 | 642 | 105 x 22 | 10 | 63,82 | 63,79 | x | x |
| M 64 | x 4 | 644 | 105 x 22 | 9 | 63,70 | 63,66 | □ | □ |
| M 65 | x 2 | 652 | 105 x 22 | 10 | 64,82 | 64,79 | x | x |
| M 70 | x 2 | 702 | 120 x 22 | 9 | 69,82 | 69,79 | x | x |
| M 72 | x 2 | 722 | 120 x 22 | 10 | 71,82 | 71,79 | x | x |
| M 75 | x 2 | 752 | 120 x 22 | 10 | 74,82 | 74,79 | x | x |
| M 80 | x 2 | 802 | 130 x 25 | 10 | 79,82 | 79,79 | x | x |
| M 85 | x 2 | 852 | 130 x 25 | 12 | 84,82 | 84,79 | x | x |
| M 88 | x 2 | 882 | 140 x 25 | 11 | 87,82 | 87,79 | □ | □ |
| M 90 | x 2 | 902 | 140 x 25 | 11 | 89,82 | 89,79 | □ | □ |
| M 95 | x 2 | 952 | 150 x 25 | 11 | 94,82 | 94,79 | □ | □ |
| M 100 | x 2 | 1002 | 150 x 25 | 8 | 99,82 | 99,79 | □ | □ |

x=ab Lager, Zwischenverkauf vorbehalten
x=normally ex stock

□= Verfügbar auf Anfrage
□= available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

MF

Metrisches ISO Feingewinde DIN 13

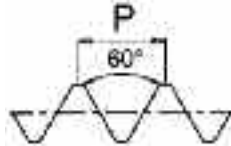
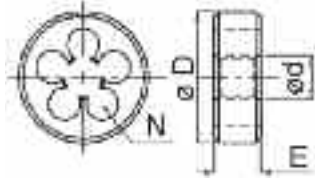
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO Metric Fine Threads, DIN 13

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from M 3



| Katalog Nr. Bezeichnung | Catalogue No. Name | 211 020 Hahnreiter MS | 211 005 Nirofix | | | |
|---|--|--------------------------|--------------------------------------|--|--|--|
| Material | Material | HSS | HSS-EP | | | |
| Toleranz | Tolerance | 6g | 6g | | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,25 | 2 | | | |
| Sonderwerkstoff | Special material | Messing Brass | rostfreie Stähle Stainless steels | | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | 3.21 | 1.9.4 / 1.9.5 | | | |
| Oberfläche | Surface | | Nit | | | |
| Ausführung | Variation | geläppt <i>lapped</i> | geläppt <i>lapped</i> | | | |

| d | P mm | Code | D x E mm | N | Dreh-Ø / Turning-Ø 6g 6e | Verfügbarkeit Availability | | | | |
|-------|---------|------|-------------|----|--------------------------------|-------------------------------|---|--|--|--|
| M 39 | x 3 | 393 | 75 x 20 | 7 | 38,77 38,73 | | | | | |
| M 40 | x 1,5 | 4015 | 75 x 20 | 8 | 39,85 39,81 | □ | | | | |
| M 40 | x 2 | 402 | 75 x 20 | 7 | 39,82 39,79 | | | | | |
| M 42 | x 1,5 | 4215 | 75 x 20 | 8 | 41,85 41,81 | □ | □ | | | |
| M 42 | x 2 | 422 | 75 x 20 | 8 | 41,82 41,79 | | | | | |
| M 42 | x 3 | 423 | 75 x 20 | 8 | 41,77 41,73 | □ | | | | |
| M 45 | x 1,5 | 4515 | 90 x 22 | 7 | 44,85 44,81 | | □ | | | |
| M 45 | x 2 | 452 | 90 x 22 | 7 | 44,82 44,79 | | | | | |
| M 45 | x 3 | 453 | 90 x 22 | 7 | 44,77 44,73 | | | | | |
| M 48 | x 1,5 | 4815 | 90 x 22 | 8 | 47,85 47,81 | □ | | | | |
| M 48 | x 2 | 482 | 90 x 22 | 8 | 47,82 47,79 | | | | | |
| M 48 | x 3 | 483 | 90 x 22 | 7 | 47,77 47,73 | | | | | |
| M 50 | x 1,5 | 5015 | 90 x 22 | 8 | 49,85 49,81 | □ | | | | |
| M 50 | x 2 | 502 | 90 x 22 | 8 | 49,82 49,79 | | | | | |
| M 52 | x 1,5 | 5215 | 90 x 22 | 9 | 51,85 51,81 | □ | □ | | | |
| M 52 | x 2 | 522 | 90 x 22 | 9 | 51,82 51,79 | | | | | |
| M 52 | x 3 | 523 | 90 x 22 | 8 | 51,77 51,73 | | | | | |
| M 56 | x 1,5 | 5615 | 105 x 22 | 8 | 55,85 55,81 | □ | | | | |
| M 56 | x 2 | 562 | 105 x 22 | 8 | 55,82 55,79 | | | | | |
| M 58 | x 1,5 | 5815 | 105 x 22 | 8 | 57,85 57,81 | □ | | | | |
| M 60 | x 1,5 | 6015 | 105 x 22 | 9 | 59,85 59,81 | | | | | |
| M 60 | x 2 | 602 | 105 x 22 | 9 | 59,82 59,79 | | | | | |
| M 60 | x 3 | 603 | 105 x 22 | 8 | 59,77 59,73 | | | | | |
| M 64 | x 2 | 642 | 105 x 22 | 10 | 63,82 63,79 | | | | | |
| M 64 | x 4 | 644 | 105 x 22 | 9 | 63,70 63,66 | | | | | |
| M 65 | x 2 | 652 | 105 x 22 | 10 | 64,82 64,79 | □ | | | | |
| M 70 | x 2 | 702 | 120 x 22 | 9 | 69,82 69,79 | □ | | | | |
| M 72 | x 2 | 722 | 120 x 22 | 10 | 71,82 71,79 | | | | | |
| M 75 | x 2 | 752 | 120 x 22 | 10 | 74,82 74,79 | | | | | |
| M 80 | x 2 | 802 | 130 x 25 | 10 | 79,82 79,79 | □ | | | | |
| M 85 | x 2 | 852 | 130 x 25 | 12 | 84,82 84,79 | | | | | |
| M 88 | x 2 | 882 | 140 x 25 | 11 | 87,82 87,79 | □ | | | | |
| M 90 | x 2 | 902 | 140 x 25 | 11 | 89,82 89,79 | | | | | |
| M 95 | x 2 | 952 | 150 x 25 | 11 | 94,82 94,79 | | | | | |
| M 100 | x 2 | 1002 | 150 x 25 | 8 | 99,82 99,79 | | | | | |

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage

□ = available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

MF

Metrisches ISO Feingewinde DIN 13

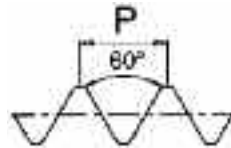
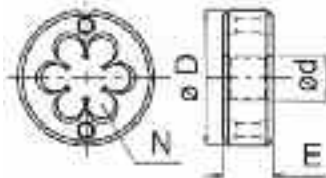
Baumaße Werknorm, mit Aufschraublöchern

Form B, geschlossen, mit Schälanschnitt ab M 3

ISO Metric Fine Threads, DIN 13

Dimensions manufacturer's standard, with fixing holes

Form B, solid, spiral pointed from M 3



| Katalog Nr. | | Catalogue No. | | 211 401 | | 211 420 | | | | | |
|---|--------|--|----------|---------------|--------------------|------------------|---------------|---|--|--|--|
| Bezeichnung | | Name | | Hahnreiter GL | | Hahnreiter MS | | | | | |
| Material | | Material | | HSS | | HSS | | | | | |
| Toleranz | | Tolerance | | 6g | | 6g | | | | | |
| Anschnittlänge, Gang | | Chamfer length, threads | | 1,75 | | 1,25 | | | | | |
| Sonderwerkstoff | | Special material | | | | Messing Brass | | | | | |
| Zerspanungsgruppe, siehe Ausklappseite links | | Machinability-group, See folder left page | | | | 3.21 | | | | | |
| Oberfläche | | Surface | | | | | | | | | |
| Ausführung | | Variation | | geläppt | | geläppt | | | | | |
| | | | | lapped | | lapped | | | | | |
| d | P | Code | D x E | N | Dreh-Ø / Turning-Ø | | Verfügbarkeit | | | | |
| | mm | | mm | | 6g | 6e | Availability | | | | |
| M 2 | x 0,25 | 02025 | 16 x 2 | 4 | 1,97 | 1,92 | □ | □ | | | |
| M 3 | x 0,35 | 03035 | 16 x 3 | 4 | 2,94 | 2,91 | x | □ | | | |
| M 4 | x 0,35 | 04035 | 16 x 3,5 | 4 | 3,94 | 3,91 | □ | □ | | | |
| M 4 | x 0,5 | 0405 | 16 x 4 | 4 | 3,92 | 3,89 | x | □ | | | |
| M 5 | x 0,5 | 0505 | 20 x 5 | 4 | 4,92 | 4,89 | x | □ | | | |
| M 6 | x 0,5 | 0605 | 20 x 5 | 4 | 5,92 | 5,89 | x | □ | | | |
| M 6 | x 0,75 | 06075 | 20 x 7 | 4 | 5,90 | 5,87 | x | □ | | | |
| M 7 | x 0,5 | 0705 | 25 x 7 | 4 | 6,90 | 6,87 | | | | | |
| M 7 | x 0,75 | 07075 | 25 x 7 | 4 | 6,90 | 6,87 | x | | | | |
| M 8 | x 0,5 | 0805 | 25 x 7 | 6 | 7,92 | 7,89 | □ | □ | | | |
| M 8 | x 0,75 | 08075 | 25 x 7 | 4 | 7,90 | 7,87 | x | | | | |
| M 8 | x 1 | 081 | 25 x 7 | 4 | 7,88 | 7,85 | x | □ | | | |
| M 10 | x 0,75 | 10075 | 30 x 7 | 6 | 9,90 | 9,87 | x | | | | |
| M 10 | x 1 | 1011 | 25 x 7 | 6 | 9,88 | 9,85 | | | | | |
| M 10 | x 1 | 1012 | 30 x 7 | 6 | 9,88 | 9,85 | x | □ | | | |
| M 10 | x 1,25 | 10125 | 25 x 9 | 6 | 9,86 | 9,83 | x | | | | |
| M 12 | x 1 | 121 | 30 x 7 | 6 | 11,88 | 11,85 | x | | | | |
| M 12 | x 1 | 122 | 35 x 10 | 6 | 11,88 | 11,85 | | | | | |
| M 12 | x 1,25 | 12125 | 30 x 11 | 6 | 11,86 | 11,83 | x | | | | |
| M 12 | x 1,5 | 1215 | 30 x 11 | 6 | 11,85 | 11,81 | x | | | | |
| M 14 | x 1 | 141 | 35 x 10 | 6 | 13,88 | 13,85 | | | | | |
| M 14 | x 1,25 | 14125 | 35 x 10 | 6 | 13,86 | 13,83 | | | | | |
| M 14 | x 1,5 | 1415 | 35 x 10 | 6 | 13,85 | 13,81 | x | | | | |
| M 16 | x 1 | 161 | 45 x 10 | 6 | 15,88 | 15,85 | | | | | |
| M 16 | x 1,5 | 1615 | 45 x 14 | 6 | 15,85 | 15,81 | x | | | | |

x=ab Lager, Zwischenverkauf vorbehalten
x=normally ex stock

□= Verfügbar auf Anfrage
□= available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

MF

UNC

Unified Grobgewinde ANSI B 1.1

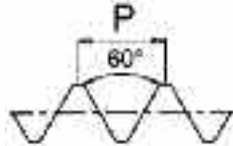
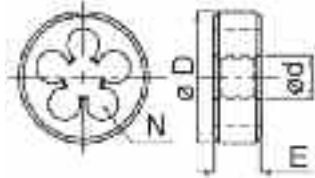
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab Nr. 5

Unified Coarse Threads ANSI B 1.1

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from No. 5



| Katalog Nr. Bezeichnung | Catalogue No. Name | 212 000 Hahnreiter | 212 001 Hahnreiter GL | 212 002 Hahnreiter LH | 212 010 Hahnreiter 3A | 212 005 Nirofix | | |
|---|--|-----------------------|--------------------------|---------------------------|---|---|-------------------------------|---|
| Material | Material | HSS | HSS | HSS | HSS | HSS-EP | | |
| Toleranz | Tolerance | 2A | 2A | 2A | 3A | 2A | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,75 | 1,75 | 2 | | |
| Sonderwerkstoff | Special material | | | | | rostfreie Stähle Stainless steels 1.9.4 / 1.9.5 | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | | | Nit | | |
| Oberfläche | Surface | | | | | | | |
| Ausführung | Variation | | geläppt <i>lapped</i> | Links <i>Left hand</i> | enge Toleranz <i>tight tolerance</i> | geläppt <i>lapped</i> | | |
| d | P Gg/1" | Code | D x E mm | N | Dreh-Ø / Turning-Ø 2A 3A | | Verfügbarkeit Availability | |
| Nr. 1 | - 64 | 01,85 | 16 x 5 | 3 | 1,79 | 1,81 | x | x |
| Nr. 2 | - 56 | 02,18 | 16 x 5 | 4 | 2,12 | 2,14 | x | x |
| Nr. 3 | - 48 | 02,52 | 16 x 5 | 4 | 2,44 | 2,46 | x | x |
| Nr. 4 | - 40 | 02,85 | 16 x 5 | 4 | 2,76 | 2,78 | x | x |
| Nr. 5 | - 40 | 03,18 | 20 x 5 | 4 | 3,09 | 3,11 | x | x |
| Nr. 6 | - 32 | 03,51 | 20 x 7 | 4 | 3,41 | 3,43 | x | x |
| Nr. 8 | - 32 | 04,17 | 20 x 7 | 4 | 4,07 | 4,09 | x | x |
| Nr. 10 | - 24 | 04,83 | 20 x 7 | 4 | 4,71 | 4,73 | x | x |
| Nr. 12 | - 24 | 05,49 | 20 x 7 | 4 | 5,37 | 5,39 | x | x |
| 1/4 | - 20 | 06,35 | 20 x 7 | 4 | 6,22 | 6,25 | x | x |
| 1/4 | - 20 | 06,35 | 20 x 7 | 5 | 6,22 | 6,25 | | |
| 5/16 | - 18 | 07,94 | 25 x 9 | 4 | 7,80 | 7,83 | x | x |
| 5/16 | - 18 | 07,94 | 25 x 9 | 5 | 7,80 | 7,83 | | |
| 3/8 | - 16 | 09,53 | 30 x 11 | 4 | 9,37 | 9,41 | x | x |
| 3/8 | - 16 | 09,53 | 30 x 11 | 5 | 9,37 | 9,41 | | |
| 7/16 | - 14 | 11,11 | 30 x 11 | 4 | 10,95 | 10,98 | x | x |
| 7/16 | - 14 | 11,11 | 30 x 11 | 5 | 10,95 | 10,98 | | |
| 1/2 | - 13 | 12,70 | 38 x 14 | 4 | 12,52 | 12,56 | x | x |
| 1/2 | - 13 | 12,70 | 38 x 14 | 5 | 12,52 | 12,56 | | |
| 9/16 | - 12 | 14,29 | 38 x 14 | 4 | 14,10 | 14,14 | x | x |
| 9/16 | - 12 | 14,29 | 38 x 14 | 5 | 14,10 | 14,14 | | |
| 5/8 | - 11 | 15,88 | 45 x 18 | 4 | 15,68 | 15,72 | x | x |
| 5/8 | - 11 | 15,88 | 45 x 18 | 5 | 15,68 | 15,72 | | |
| 3/4 | - 10 | 19,05 | 45 x 18 | 5 | 18,84 | 18,89 | x | x |
| 7/8 | - 9 | 22,23 | 55 x 22 | 5 | 22,00 | 22,05 | x | x |
| 7/8 | - 9 | 22,23 | 55 x 22 | 6 | 22,00 | 22,05 | | |
| 1 | - 8 | 25,40 | 55 x 22 | 5 | 25,16 | 25,21 | x | x |
| 1 | - 8 | 25,40 | 55 x 22 | 6 | 25,16 | 25,21 | | |
| 1.1/8 | - 7 | 28,58 | 65 x 25 | 5 | 28,31 | 28,37 | x | x |
| 1.1/4 | - 7 | 31,75 | 65 x 25 | 6 | 31,49 | 31,54 | x | x |
| 1.3/8 | - 6 | 34,93 | 65 x 25 | 6 | 34,63 | 34,69 | x | x |
| 1.1/2 | - 6 | 38,10 | 75 x 30 | 6 | 37,80 | 37,87 | x | x |
| 1.3/4 | - 5 | 44,45 | 90 x 36 | 6 | 44,12 | 44,19 | x | x |
| 2 | - 4,5 | 50,80 | 90 x 36 | 7 | 50,45 | 50,52 | x | x |

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage

□ = available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

UNF

Unified Feingewinde ANSI B 1.1

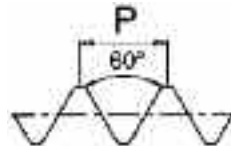
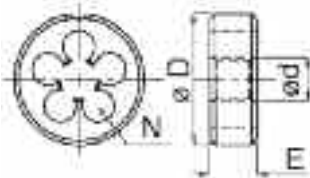
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab Nr. 5

Unified Fine Threads ANSI B 1.1

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from No. 5



| Katalog Nr. Bezeichnung | Catalogue No. Name | 213 000 Hahnreiter | 213 001 Hahnreiter GL | 213 002 Hahnreiter LH | 213 010 Hahnreiter 3A | 213 005 Nirofix |
|---|--|-----------------------|--------------------------|--------------------------|----------------------------------|---|
| Material | Material | HSS | HSS | HSS | HSS | HSS-EP |
| Toleranz | Tolerance | 2A | 2A | 2A | 3A | 2A |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,75 | 1,75 | 2 |
| Sonderwerkstoff | Special material | | | | | rostfreie Stähle Stainless steels 1.9.4 / 1.9.5 |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | | | Nit |
| Oberfläche | Surface | | | | | |
| Ausführung | Variation | | geläppt lapped | Links Left hand | enge Toleranz tight tolerance | geläppt lapped |
| d | P Gg/1" | Code | D x E mm | N | Dreh-Ø / Turning-Ø 2A 3A | Verfügbarkeit Availability |
| Nr. 0 | - 80 | 01,52 | 16 x 5 | 3 | 1,47 1,49 | x x |
| Nr. 1 | - 72 | 01,85 | 16 x 5 | 3 | 1,79 1,81 | x x |
| Nr. 2 | - 64 | 02,18 | 16 x 5 | 4 | 2,12 2,14 | x x |
| Nr. 3 | - 56 | 02,52 | 16 x 5 | 4 | 2,44 2,46 | x x |
| Nr. 4 | - 48 | 02,85 | 16 x 5 | 4 | 2,77 2,79 | x x |
| Nr. 5 | - 44 | 03,18 | 20 x 5 | 4 | 3,10 3,12 | x x □ □ |
| Nr. 6 | - 40 | 03,51 | 20 x 5 | 4 | 3,42 3,44 | x x □ □ |
| Nr. 8 | - 36 | 04,17 | 20 x 7 | 4 | 4,08 4,10 | x x □ □ |
| Nr. 10 | - 32 | 04,83 | 20 x 7 | 4 | 4,73 4,75 | x x □ □ |
| Nr. 12 | - 28 | 05,49 | 20 x 7 | 4 | 5,38 5,40 | x x □ □ |
| 1/4 | - 28 | 06,35 | 20 x 7 | 4 | 6,24 6,27 | x x x □ x |
| 5/16 | - 24 | 07,94 | 25 x 9 | 4 | 7,82 7,85 | x x x □ x |
| 3/8 | - 24 | 09,53 | 30 x 11 | 4 | 9,41 9,43 | x x x □ |
| 3/8 | - 24 | 09,53 | 30 x 11 | 5 | 9,41 9,43 | x x x □ x |
| 7/16 | - 20 | 11,11 | 30 x 11 | 5 | 10,98 11,01 | x x x □ x |
| 1/2 | - 20 | 12,70 | 38 x 10 | 5 | 12,56 12,60 | x x x □ □ |
| 9/16 | - 18 | 14,29 | 38 x 10 | 5 | 14,14 14,18 | x x x □ □ |
| 5/8 | - 18 | 15,88 | 45 x 14 | 5 | 15,73 15,77 | x x x □ □ |
| 3/4 | - 16 | 19,05 | 45 x 14 | 6 | 18,89 18,93 | x x x □ □ |
| 7/8 | - 14 | 22,23 | 55 x 16 | 5 | 22,05 22,09 | x x x □ □ |
| 1 | - 12 | 25,40 | 55 x 16 | 6 | 25,21 25,26 | x x □ □ |
| 1.1/8 | - 12 | 28,58 | 65 x 18 | 6 | 28,38 28,43 | x x □ □ |
| 1.1/4 | - 12 | 31,75 | 65 x 18 | 7 | 31,56 31,60 | x x □ □ |
| 1.3/8 | - 12 | 34,93 | 65 x 18 | 8 | 34,73 34,78 | x x □ □ |
| 1.1/2 | - 12 | 38,10 | 75 x 20 | 7 | 37,90 37,95 | x x □ □ |

x=ab Lager, Zwischenverkauf vorbehalten
x=normally ex stock

□= Verfügbar auf Anfrage
□= available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

G

Whitworth Rohrgewinde DIN ISO 228

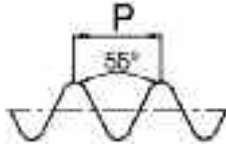
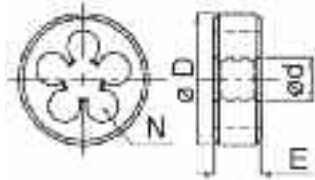
Baumaße DIN-EN 24231

Form B, geschlossen, mit Schälanschnitt

Whitworth Pipe Threads DIN ISO 228

Dimensions DIN-EN 24231

Form B, solid, spiral pointed



| Katalog Nr. Bezeichnung | Catalogue No. Name | 214 000 Hahnreiter | 214 001 Hahnreiter GL | 214 020 Hahnreiter MS | 214 022 Hahnreiter MS -0,1 | 214 005 Nirofix |
|---|--|-----------------------|--------------------------|--------------------------|---|--------------------------------------|
| Material | Material | HSS | HSS | HSS | HSS | HSS-EP |
| Toleranz | Tolerance | A | A | A | A -0,1 | A |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,25 | 1,25 | 2 |
| Sonderwerkstoff | Special material | | | Messing Brass | Messing Brass | rostfreie Stähle Stainless steels |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | 3.21 | 3.21 | 1.9.4 / 1.9.5 |
| Oberfläche | Surface | | | | | Nit |
| Ausführung | Variation | | geläppt <i>lapped</i> | geläppt <i>lapped</i> | Abmaß -0,1 geläppt <i>Undersize -0,1 lapped</i> | geläppt <i>lapped</i> |
| d | P Gg/1" | Code | D x E mm | N | Dreh-Ø / Turning-Ø A | Verfügbarkeit Availability |
| G 1/8 | 28 | 09,73 | 30 x 11 | 5 | 9,62 | x x x x x |
| G 1/4 | 19 | 13,16 | 38 x 10 | 5 | 13,03 | x x x x x |
| G 3/8 | 19 | 16,66 | 45 x 14 | 5 | 16,54 | x x x x x |
| G 1/2 | 14 | 20,96 | 45 x 14 | 6 | 20,81 | x x x x x |
| G 5/8 | 14 | 22,91 | 55 x 16 | 5 | 22,77 | x x □ □ |
| G 5/8 | 14 | 22,91 | 55 x 16 | 6 | 22,77 | |
| G 3/4 | 14 | 26,44 | 55 x 16 | 6 | 26,30 | x x x x □ |
| G 7/8 | 14 | 30,20 | 65 x 18 | 6 | 30,06 | x x □ □ □ |
| G 1 | 11 | 33,25 | 65 x 18 | 7 | 33,07 | x x x x |
| G 1 | 11 | 33,25 | 65 x 18 | 8 | 33,07 | |
| G 1.1/8 | 11 | 37,90 | 75 x 20 | 7 | 37,72 | x x □ □ □ |
| G 1.1/4 | 11 | 41,91 | 75 x 20 | 8 | 41,73 | x x x □ □ |
| G 1.1/4 | 11 | 41,91 | 75 x 20 | 9 | 41,73 | |
| G 1.1/2 | 11 | 47,80 | 90 x 22 | 8 | 47,62 | x x x □ □ |
| G 1.1/2 | 11 | 47,80 | 90 x 22 | 9 | 47,62 | |
| G 1.3/4 | 11 | 53,75 | 90 x 22 | 9 | 53,57 | x x □ □ □ |
| G 2 | 11 | 59,61 | 105 x 22 | 9 | 59,43 | x x □ □ □ |
| G 2 | 11 | 59,61 | 105 x 22 | 11 | 59,43 | |
| G 2.1/4 | 11 | 65,71 | 105 x 22 | 10 | 65,49 | x x □ □ □ |
| G 2.1/2 | 11 | 75,18 | 120 x 22 | 10 | 74,97 | x x □ □ □ |
| G 2.3/4 | 11 | 81,53 | 120 x 22 | 12 | 81,32 | x x □ □ □ |
| G 3 | 11 | 87,88 | 130 x 25 | 8 | 87,67 | x x □ □ □ |
| G 3.1/2 | 11 | 100,30 | 150 x 25 | 8 | 100,11 | □ □ □ □ □ |
| G 4 | 11 | 113,00 | 160 x 25 | 9 | 112,81 | □ □ □ □ □ |

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage
□ = available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

G

Whitworth Rohrgewinde DIN ISO 228

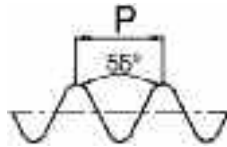
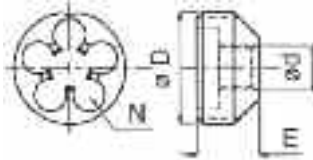
Baumaße Werksnorm, **Glockenform**

Form B, geschlossen, mit Schälanschnitt

Whitworth Pipe Threads DIN ISO 228

Dimensions manufacturer's standard, bell form

Form B, solid, spiral pointed



| Katalog Nr. Bezeichnung | Catalogue No. Name | 214 201 Hahnreiter GL | 214 220 Hahnreiter MS | 214 222 Hahn. MS -0,1 | | |
|--|--|--------------------------|--------------------------|---|-------------------------|-------------------------------------|
| Material | Material | HSS | HSS | HSS | | |
| Toleranz | Tolerance | A | A | A -0,1 | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,25 | 1,25 | | |
| Sonderwerkstoff | Special material | | Messing Brass | Messing Brass | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | 3.21 | 3.21 | | |
| Oberfläche | Surface | | | | | |
| Ausführung | Variation | geläppt <i>lapped</i> | geläppt <i>lapped</i> | Abmaß -0,1 geläppt <i>Undersize -0,1 lapped</i> | | |
| d | P Gg/1" | Code | D x E mm | N | Dreh-Ø / Turning-Ø A | Verfügbarkeit Availability |
| G 1/8 | 28 | 09,73 | 25 x 14 | 5 | 9,62 | <input type="checkbox"/> |
| G 1/4 | 19 | 13,16 | 30 x 18 | 6 | 13,03 | <input type="checkbox"/> |
| G 3/8 | 19 | 16,66 | 38 x 20 | 6 | 16,54 | <input checked="" type="checkbox"/> |
| G 1/2 | 14 | 20,96 | 45 x 24 | 6 | 20,81 | <input checked="" type="checkbox"/> |
| G 3/4 | 14 | 26,44 | 55 x 28 | 6 | 26,30 | <input checked="" type="checkbox"/> |
| G 1 | 11 | 33,25 | 65 x 30 | 7 | 33,07 | <input checked="" type="checkbox"/> |
| <p>Ab G 1/2 Schneideisen mit geschliffenem Gewinde in HSS und HM auf Anfrage, siehe Seite S29 From G 1/2 dies with ground thread in HSS and solid carbide on request, see page S29</p> | | | | | | |
| <p>Technische Informationen zum Thema Rohrgewinde siehe Seite T20 For technical information concerning pipe threads, please see page T22</p> | | | | | | |

x=ab Lager, Zwischenverkauf vorbehalten
x=normally ex stock

= Verfügbar auf Anfrage
= available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

R

Whitworth Rohrgewinde DIN EN 10226, ISO 7, DIN 2999 (zurückgezogen), Konus 1 : 16

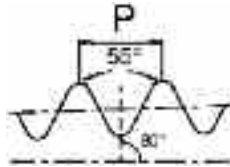
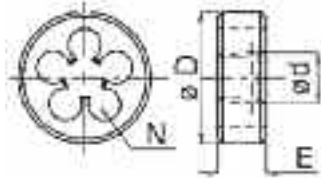
Baumaße DIN-EN 24230

Form B, geschlossen, mit Schälanschnitt

Whitworth Pipe Threads DIN EN 10226, ISO 7, DIN 2999 (withdrawn), Taper 1 : 16

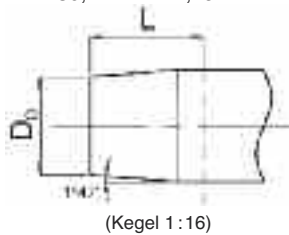
Dimensions DIN-EN 24230

Form B, solid, spiral pointed



| Katalog Nr. Bezeichnung | Catalogue No. Name | 223 000 Hahnreiter | 223 020 Hahnreiter MS | 223 005 Nirofix |
|---|--|-----------------------|---|---|
| Material | Material | HSS | HSS | HSS-EP |
| Toleranz | Tolerance | | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,25 | 2 |
| Sonderwerkstoff | Special material | | Messing Brass | rostfreie Stähle Stainless steels |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | 3.21 | 1.9.4 / 1.9.5 |
| Oberfläche | Surface | | | Nit |
| Ausführung | Variation | konisch taper | konisch geläppt taper lapped | konisch geläppt taper lapped |

| d | P Gg/1" | Code | D x E mm | N | L (Richtwert) L (reccomend.) | Dreh-Ø / Turning-Ø D ₀ | Verfügbarkeit Availability |
|---------|------------|-------|-------------|----|---------------------------------|--------------------------------------|-------------------------------|
| R 1/8 | 28 | 09,73 | 30 x 11 | 5 | 8,2 | 9,48 | x □ □ |
| R 1/4 | 19 | 13,16 | 38 x 14 | 5 | 12,1 | 12,78 | x □ □ |
| R 3/8 | 19 | 16,66 | 45 x 14 | 5 | 12,5 | 16,26 | x □ □ |
| R 1/2 | 14 | 20,96 | 45 x 18 | 6 | 16,4 | 20,44 | x □ □ |
| R 3/4 | 14 | 26,44 | 55 x 22 | 6 | 17,7 | 25,85 | x □ □ |
| R 1 | 11 | 33,25 | 65 x 25 | 7 | 20,9 | 32,60 | x □ □ |
| R 1.1/4 | 11 | 41,91 | 75 x 26 | 8 | 23,2 | 41,12 | x □ □ |
| R 1.1/2 | 11 | 47,80 | 90 x 27 | 8 | 23,2 | 47,01 | x □ □ |
| R 2 | 11 | 59,61 | 105 x 28 | 9 | 27,5 | 58,62 | x □ □ |
| R 2.1/2 | 11 | 75,18 | 120 x 36 | 10 | 30,7 | 74,19 | □ □ □ |



(Kegel 1:16)

Ab R 1/2 Schneideisen mit geschliffenem Gewinde in HSS und HM auf Anfrage
From R 1/2 dies with ground thread in HSS and solid carbide on request

Technische Informationen zum Thema Rohrgewinde siehe Seite T20
For technical information concerning pipe threads, please see page T22

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage

□ = available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

NPT

Amerikanisches Kegeliges Rohrgewinde - Konus 1 : 16

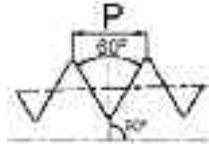
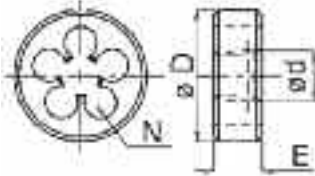
nach ANSI B 1.20.1 "allg. Verwendung"

Baumaße Werknorm, Form B, geschlossen, mit Schälanschnitt

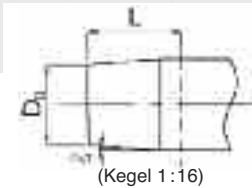
American Taper Pipe Thread - Taper 1 : 16

accord. to ANSI B 1.20.1 "general purpose"

Dimensions manufacturer's standard, Form B, solid, spiral pointed



| Katalog Nr. | | Catalogue No. | | 217 000 | 217 001 | 217 005 | |
|---|------------|--|-------------|-------------------------|---|---|-------------------------------|
| Bezeichnung | | Name | | Hahnreiter | Hahnreiter GL | Nirofix | |
| Material | | Material | | HSS | HSS | HSS-EP | |
| Toleranz | | Tolerance | | 1,75 | 1,75 | 2 | |
| Anschnittlänge, Gang | | Chamfer length, threads | | | | | |
| Sonderwerkstoff | | Special material | | | | rostfreie Stähle Stainless steels 1.9.4 / 1.9.5 | |
| Zerspanungsgruppe, siehe Ausklappseite links | | Machinability-group, See folder left page | | | | Nit | |
| Oberfläche | | Surface | | | | | |
| Ausführung | | Variation | | konisch <i>taper</i> | konisch geläppt <i>taper lapped</i> | konisch geläppt <i>taper lapped</i> | |
| d | P Gg/1" | Code | D x E mm | N | L (Richtwert) L (recomm.) | Dreh-Ø / Turning-Ø D ₀ | Verfügbarkeit Availability |
| 1/16" | 27 | 08,85 | 25 x 9 | 4 | 8,4 | 7,58 | x |
| 1/8" | 27 | 10,62 | 30 x 11 | 5 | 8,5 | 9,93 | x |
| 1/4" | 18 | 14,14 | 38 x 14 | 5 | 12,7 | 13,18 | x |
| 3/8" | 18 | 17,57 | 45 x 14 | 5 | 12,9 | 16,60 | x |
| 1/2" | 14 | 21,90 | 45 x 18 | 6 | 16,8 | 20,63 | x |
| 3/4" | 14 | 27,23 | 55 x 22 | 6 | 17,1 | 25,95 | x |
| 1" | 11 1/2 | 34,18 | 65 x 25 | 7 | 21,3 | 32,51 | x |
| 1.1/4" | 11 1/2 | 42,90 | 75 x 26 | 8 | 21,9 | 41,23 | x |
| 1.1/2" | 11 1/2 | 48,94 | 90 x 27 | 8 | 22,3 | 47,30 | x |
| 2" | 11 1/2 | 61,00 | 105 x 28 | 9 | 23,1 | 59,31 | x |
| 2.1/2" | 8 | 71,00 | 120 x 36 | 10 | 34,1 | 71,52 | □ |
| 3" | 8 | 87,00 | 140 x 36 | 11 | 35,7 | 87,30 | □ |



Technische Informationen zum Thema Rohrgewinde siehe Seite T21
For technical information concerning pipe threads, please see page T23

x=ab Lager, Zwischenverkauf vorbehalten
x=normally ex stock

□= Verfügbar auf Anfrage
□= available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

NPTF

Amerikanisches Kegeliges Rohrgewinde - Konus 1 : 16

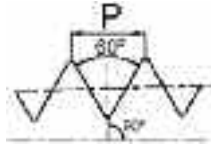
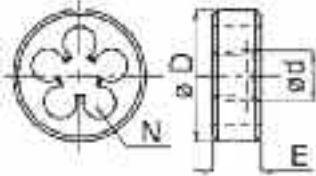
nach ANSI B 1.20.3 "trocken dichtend"

Baumaße Werknorm, Form B, geschlossen, mit Schälanschnitt

American Taper Pipe Thread - Taper 1 : 16

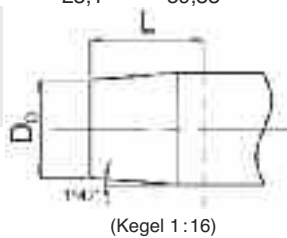
accord. to ANSI B 1.20.3 "dry sealing"

Dimensions manufacturer's standard, Form B, solid, spiral pointed



| Katalog Nr. Bezeichnung | Catalogue No. Name | 218 000 Hahnreiter | 218 001 Hahnreiter GL | 218 005 Nirofix |
|---|--|-----------------------|---|---|
| Material | Material | HSS | HSS | HSS-EP |
| Toleranz | Tolerance | | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 2 |
| Sonderwerkstoff | Special material | | | rostfreie Stähle Stainless steels 1.9.4 / 1.9.5 |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | Nit |
| Oberfläche | Surface | | | |
| Ausführung | Variation | konisch taper | konisch geläppt taper lapped | konisch geläppt taper lapped |

| d | P Gg/1" | Code | D x E mm | N | L (Richtwert) L (reccomend.) | Dreh-Ø / Turning-Ø D ₀ | Verfügbarkeit Availability |
|--------|------------|-------|-------------|---|---------------------------------|--------------------------------------|-------------------------------|
| 1/16" | 27 | 08,85 | 25 x 9 | 4 | 8,4 | 7,57 | x |
| 1/8" | 27 | 10,62 | 30 x 11 | 5 | 8,5 | 9,92 | x |
| 1/4" | 18 | 14,14 | 38 x 14 | 5 | 12,7 | 13,17 | x |
| 3/8" | 18 | 17,57 | 45 x 14 | 5 | 12,9 | 16,59 | x |
| 1/2" | 14 | 21,90 | 45 x 18 | 6 | 16,8 | 20,66 | x |
| 3/4" | 14 | 27,23 | 55 x 22 | 6 | 17,1 | 25,98 | x |
| 1" | 11 1/2 | 34,18 | 65 x 25 | 7 | 21,3 | 32,52 | x |
| 1.1/4" | 11 1/2 | 42,90 | 75 x 26 | 8 | 21,9 | 41,24 | □ |
| 1.1/2" | 11 1/2 | 48,94 | 90 x 27 | 8 | 22,3 | 47,31 | □ |
| 2" | 11 1/2 | 61,00 | 105 x 28 | 9 | 23,1 | 59,33 | □ |



Technische Informationen zum Thema Rohrgewinde siehe Seite T21
For technical information concerning pipe threads, please see page T23

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage
□ = available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

PG

Stahlpanzerrohr-Gewinde, DIN 40430

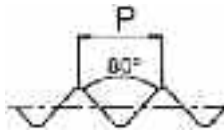
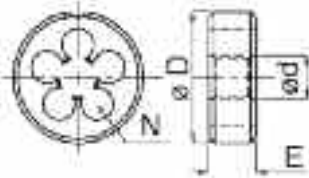
Baumaße DIN 40434

Form B, geschlossen, mit Schälanschnitt

Steel Conduit Thread, DIN 40430

Dimensions DIN 40434

Form B, solid, spiral pointed



| Katalog Nr. Bezeichnung | Catalogue No. Name | 219 000 Hahnreiter | 219 001 Hahnreiter GL | 219 020 Hahnreiter MS | | |
|---|--|-----------------------|--------------------------|--------------------------|--------------------|-------------------------------|
| Material | Material | HSS | HSS | HSS | | |
| Toleranz | Tolerance | | | | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,25 | | |
| Sonderwerkstoff | Special material | | | Messing Brass | | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | 3.21 | | |
| Oberfläche | Surface | | | | | |
| Ausführung | Variation | | geläppt <i>lapped</i> | geläppt <i>lapped</i> | | |
| d | P Gg/1" | Code | D x E mm | N | Dreh-Ø / Turning-Ø | Verfügbarkeit Availability |
| Pg 7 | 20 | 12,50 | 38 x 10 | 5 | 12,40 | x x □ |
| Pg 9 | 18 | 15,20 | 38 x 10 | 5 | 15,10 | x x □ |
| Pg 11 | 18 | 18,60 | 45 x 14 | 5 | 18,50 | x x □ |
| Pg 13,5 | 18 | 20,40 | 45 x 14 | 6 | 20,30 | x x □ |
| Pg 16 | 18 | 22,50 | 55 x 16 | 5 | 22,40 | x x □ |
| Pg 21 | 16 | 28,30 | 65 x 18 | 6 | 28,15 | x x □ |
| Pg 29 | 16 | 37,00 | 65 x 18 | 8 | 36,85 | x x □ |
| Pg 36 | 16 | 47,00 | 90 x 22 | 8 | 46,85 | x x □ |
| Pg 42 | 16 | 54,00 | 90 x 22 | 10 | 53,85 | |
| Pg 48 | 16 | 59,30 | 105 x 22 | 9 | 59,15 | |

x=ab Lager, Zwischenverkauf vorbehalten
x=normally ex stock

□= Verfügbar auf Anfrage
□= available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

BSW

Whitworth Grobgewinde, BS 84

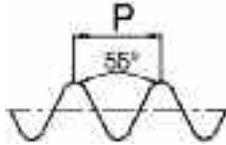
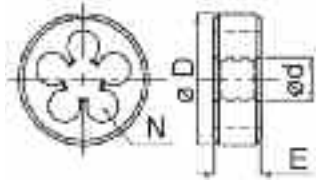
Baumaße DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt ab 1/8

Whitworth Coarse Threads, BS 84

Dimensions DIN-EN 22568

Form B, solid, spiral pointed from 1/8



| Katalog Nr. Bezeichnung | Catalogue No. Name | 215 000 Hahnreiter | 215 001 Hahnreiter GL | 215 002 Hahnreiter LH | 215 005 Nirofix HSS-EP | |
|---|--|-----------------------|--------------------------|---------------------------|---|-------------------------------------|
| Material | Material | HSS | HSS | HSS | HSS-EP | |
| Toleranz | Tolerance | | | | | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,75 | 2 | |
| Sonderwerkstoff | Special material | | | | rostfreie Stähle Stainless steels 1.9.4 / 1.9.5 | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | | Nit | |
| Oberfläche | Surface | | | | | |
| Ausführung | Variation | | geläppt <i>lapped</i> | Links <i>Left hand</i> | geläppt <i>lapped</i> | |
| d | P Gg/1" | Code | D x E mm | N | Dreh-Ø / Turning-Ø | Verfügbarkeit Availability |
| 1/16 | 60 | 01,59 | 16 x 5 | 3 | 1,51 | <input type="checkbox"/> |
| 3/32 | 48 | 02,38 | 16 x 5 | 4 | 2,30 | <input type="checkbox"/> |
| 1/8 | 40 | 03,17 | 20 x 5 | 4 | 3,09 | <input checked="" type="checkbox"/> |
| 5/32 | 32 | 03,97 | 20 x 7 | 4 | 3,88 | <input checked="" type="checkbox"/> |
| 3/16 | 24 | 04,76 | 20 x 7 | 4 | 4,66 | <input checked="" type="checkbox"/> |
| 7/32 | 24 | 05,56 | 20 x 7 | 4 | 5,46 | <input checked="" type="checkbox"/> |
| 1/4 | 20 | 06,35 | 20 x 7 | 4 | 6,24 | <input checked="" type="checkbox"/> |
| 1/4 | 20 | 06,35 | 20 x 7 | 5 | 6,24 | <input type="checkbox"/> |
| 5/16 | 18 | 07,94 | 25 x 9 | 4 | 7,82 | <input checked="" type="checkbox"/> |
| 5/16 | 18 | 07,94 | 25 x 9 | 5 | 7,82 | <input type="checkbox"/> |
| 3/8 | 16 | 09,53 | 30 x 11 | 4 | 9,40 | <input checked="" type="checkbox"/> |
| 3/8 | 16 | 09,53 | 30 x 11 | 5 | 9,40 | <input type="checkbox"/> |
| 7/16 | 14 | 11,11 | 30 x 11 | 4 | 10,98 | <input checked="" type="checkbox"/> |
| 1/2 | 12 | 12,70 | 38 x 14 | 4 | 12,56 | <input checked="" type="checkbox"/> |
| 1/2 | 12 | 12,70 | 38 x 14 | 5 | 12,56 | <input type="checkbox"/> |
| 9/16 | 12 | 14,29 | 38 x 14 | 4 | 14,14 | <input checked="" type="checkbox"/> |
| 9/16 | 12 | 14,29 | 38 x 14 | 5 | 14,14 | <input type="checkbox"/> |
| 5/8 | 11 | 15,88 | 45 x 18 | 4 | 15,72 | <input checked="" type="checkbox"/> |
| 5/8 | 11 | 15,88 | 45 x 18 | 5 | 15,72 | <input type="checkbox"/> |
| 3/4 | 10 | 19,05 | 45 x 18 | 5 | 18,89 | <input checked="" type="checkbox"/> |
| 7/8 | 9 | 22,23 | 55 x 22 | 5 | 22,10 | <input checked="" type="checkbox"/> |
| 7/8 | 9 | 22,23 | 55 x 22 | 6 | 22,10 | <input type="checkbox"/> |
| 1 | 8 | 25,40 | 55 x 22 | 5 | 25,27 | <input checked="" type="checkbox"/> |
| 1 | 8 | 25,40 | 55 x 22 | 6 | 25,27 | <input type="checkbox"/> |
| 1.1/8 | 7 | 28,58 | 65 x 25 | 5 | 28,44 | <input checked="" type="checkbox"/> |
| 1.1/4 | 7 | 31,75 | 65 x 25 | 6 | 31,61 | <input checked="" type="checkbox"/> |
| 1.3/8 | 6 | 34,93 | 65 x 25 | 6 | 34,77 | <input checked="" type="checkbox"/> |
| 1.1/2 | 6 | 38,10 | 75 x 30 | 6 | 37,95 | <input checked="" type="checkbox"/> |
| 1.5/8 | 5 | 41,28 | 75 x 30 | 7 | 41,11 | <input type="checkbox"/> |
| 1.3/4 | 5 | 44,45 | 90 x 36 | 6 | 44,28 | <input checked="" type="checkbox"/> |
| 2 | 4,5 | 50,80 | 90 x 36 | 7 | 50,63 | <input checked="" type="checkbox"/> |
| 2.1/4 | 4 | 57,15 | 105 x 36 | 7 | 56,96 | <input type="checkbox"/> |
| 2.1/2 | 4 | 63,50 | 105 x 36 | 8 | 63,31 | <input type="checkbox"/> |
| 2.3/4 | 3,5 | 69,85 | 120 x 36 | 8 | 69,65 | <input type="checkbox"/> |
| 3 | 3,5 | 76,20 | 120 x 36 | 9 | 76,00 | <input type="checkbox"/> |

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

□ = Verfügbar auf Anfrage
□ = available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

Tr

Metrisches ISO Trapezgewinde, DIN 103

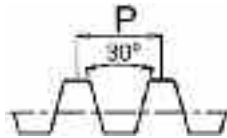
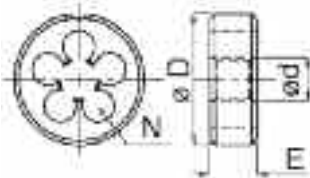
Baumaße » DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt

Metric ISO Trapezoidal Threads DIN 103

Dimensions » DIN-EN 22568

Form B, solid, spiral pointed



| Katalog Nr. Bezeichnung | Catalogue No. Name | 221 000 Hahnreiter | 221 002 Hahnreiter LH | 221 020 Hahnreiter MS | 221 022 Hahn. MS -0,1 | |
|---|--|-----------------------|--------------------------|--------------------------|---|-------------------------------------|
| Material | Material | HSS | HSS | HSS | HSS | |
| Toleranz | Tolerance | 7e | 7e | 7e | 7e -0,1 | |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,25 | 1,25 | |
| Sonderwerkstoff | Special material | | | Messing Brass | Messing Brass | |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | 3.21 | 3.21 | |
| Oberfläche | Surface | | | | | |
| Ausführung | Variation | | Links Left hand | geläppt lapped | Abmaß -0,1 geläppt Undersize -0,1 lapped | |
| d | P | Code | D x E | N | Dreh-Ø / Turning-Ø | Verfügbarkeit |
| | mm | | mm | | 7e | Availability |
| Tr 8 | x 1,5 | 0815 | 25 x 9 | 4 | 7,93 | <input type="checkbox"/> |
| Tr 9 | x 1,5 | 0915 | 30 x 11 | 4 | 8,93 | <input type="checkbox"/> |
| Tr 9 | x 2 | 092 | 30 x 11 | 4 | 8,91 | <input type="checkbox"/> |
| Tr 10 | x 1,5 | 1015 | 30 x 11 | 4 | 9,93 | <input type="checkbox"/> |
| Tr 10 | x 2 | 102 | 38 x 14 | 4 | 9,91 | <input checked="" type="checkbox"/> |
| Tr 10 | x 3 | 103 | 38 x 14 | 4 | 9,88 | <input checked="" type="checkbox"/> |
| Tr 11 | x 2 | 112 | 38 x 14 | 4 | 10,91 | <input type="checkbox"/> |
| Tr 11 | x 3 | 113 | 38 x 14 | 4 | 10,88 | <input type="checkbox"/> |
| Tr 12 | x 2 | 122 | 38 x 14 | 4 | 11,91 | <input checked="" type="checkbox"/> |
| Tr 12 | x 3 | 123 | 38 x 14 | 4 | 11,88 | <input checked="" type="checkbox"/> |
| Tr 14 | x 2 | 142 | 38 x 14 | 4 | 13,91 | <input checked="" type="checkbox"/> |
| Tr 14 | x 3 | 143 | 45 x 18 | 4 | 13,88 | <input checked="" type="checkbox"/> |
| Tr 14 | x 4 | 144 | 45 x 18 | 4 | 13,85 | <input checked="" type="checkbox"/> |
| Tr 16 | x 2 | 162 | 45 x 18 | 4 | 15,91 | <input checked="" type="checkbox"/> |
| Tr 16 | x 4 | 164 | 45 x 18 | 4 | 15,85 | <input checked="" type="checkbox"/> |
| Tr 18 | x 2 | 182 | 45 x 18 | 5 | 17,91 | <input checked="" type="checkbox"/> |
| Tr 18 | x 4 | 184 | 45 x 18 | 5 | 17,85 | <input checked="" type="checkbox"/> |
| Tr 20 | x 2 | 202 | 45 x 18 | 6 | 19,91 | <input checked="" type="checkbox"/> |
| Tr 20 | x 4 | 204 | 55 x 22 | 5 | 19,85 | <input checked="" type="checkbox"/> |
| Tr 22 | x 5 | 225 | 55 x 22 | 5 | 21,84 | <input checked="" type="checkbox"/> |
| Tr 24 | x 3 | 243 | 55 x 22 | 5 | 23,88 | <input type="checkbox"/> |
| Tr 24 | x 5 | 245 | 65 x 25 | 5 | 23,84 | <input checked="" type="checkbox"/> |
| Tr 26 | x 5 | 265 | 65 x 25 | 5 | 25,84 | <input type="checkbox"/> |
| Tr 28 | x 5 | 285 | 65 x 25 | 5 | 27,84 | <input type="checkbox"/> |
| Tr 30 | x 3 | 303 | 65 x 25 | 6 | 29,88 | <input type="checkbox"/> |
| Tr 30 | x 6 | 306 | 65 x 25 | 5 | 29,82 | <input checked="" type="checkbox"/> |
| Tr 32 | x 6 | 326 | 65 x 25 | 6 | 31,82 | <input type="checkbox"/> |
| Tr 36 | x 6 | 366 | 65 x 25 | 6 | 35,82 | <input checked="" type="checkbox"/> |

x = ab Lager, Zwischenverkauf vorbehalten
x = normally ex stock

= Verfügbar auf Anfrage
 = available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standard

Rd

Rundgewinde DIN 405

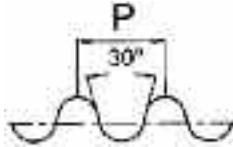
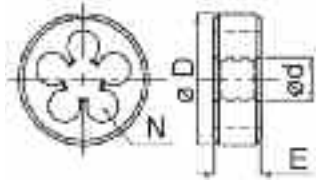
Baumaße » DIN-EN 22568

Form B, geschlossen, mit Schälanschnitt

Round Threads DIN 405

Dimensions » DIN-EN 22568

Form B, solid, spiral pointed



| Katalog Nr. Bezeichnung | Catalogue No. Name | 222 000 Hahnreiter | 222 001 Hahnreiter GL | 222 020 Hahnreiter MS | 222 023 Hahnreiter MS LH |
|---|--|-----------------------|--------------------------|--------------------------|---|
| Material | Material | HSS | HSS | HSS | HSS |
| Toleranz | Tolerance | 7h | 7h | 7h | 7h |
| Anschnittlänge, Gang | Chamfer length, threads | 1,75 | 1,75 | 1,25 | 1,25 |
| Sonderwerkstoff | Special material | | | Messing Brass | Messing Brass |
| Zerspanungsgruppe, siehe Ausklappseite links | Machinability-group, See folder left page | | | 3.21 | 3.21 |
| Oberfläche | Surface | | | | |
| Ausführung | Variation | | geläppt lapped | geläppt lapped | Links geläppt Left hand lapped |

| d | P Gg/1" | Code | D x E mm | N | Dreh-Ø / Turning-Ø 7h | Verfügbarkeit Availability | | | | |
|-------|------------|------|-------------|---|--------------------------|-------------------------------|---|--|--|--|
| Rd 8 | - 1/10 | 08 | 30 x 11 | 4 | 7,83 | □ | □ | | | |
| Rd 10 | - 1/10 | 10 | 38 x 14 | 4 | 9,83 | x | x | | | |
| Rd 11 | - 1/10 | 11 | 38 x 14 | 4 | 10,83 | | | | | |
| Rd 12 | - 1/10 | 12 | 38 x 14 | 4 | 11,83 | x | x | | | |
| Rd 14 | - 1/10 | 14 | 45 x 18 | 4 | 13,82 | x | x | | | |
| Rd 16 | - 1/8 | 16 | 45 x 18 | 4 | 15,82 | x | x | | | |
| Rd 18 | - 1/8 | 18 | 45 x 18 | 5 | 17,82 | x | x | | | |
| Rd 20 | - 1/8 | 20 | 55 x 22 | 5 | 19,82 | x | x | | | |
| Rd 22 | - 1/8 | 22 | 55 x 22 | 5 | 21,77 | x | x | | | |
| Rd 24 | - 1/8 | 24 | 55 x 22 | 5 | 23,77 | x | x | | | |
| Rd 26 | - 1/8 | 26 | 65 x 25 | 5 | 25,77 | | | | | |
| Rd 28 | - 1/8 | 28 | 65 x 25 | 6 | 27,77 | | | | | |
| Rd 30 | - 1/8 | 30 | 65 x 25 | 6 | 29,77 | x | x | | | |
| Rd 32 | - 1/8 | 32 | 65 x 25 | 6 | 31,77 | x | x | | | |
| Rd 36 | - 1/8 | 36 | 65 x 25 | 7 | 35,77 | □ | □ | | | |
| Rd 38 | - 1/8 | 38 | 75 x 30 | 7 | 37,77 | □ | □ | | | |
| Rd 40 | - 1/6 | 40 | 75 x 30 | 7 | 39,70 | □ | □ | | | |
| Rd 42 | - 1/6 | 42 | 75 x 30 | 8 | 41,70 | | | | | |
| Rd 44 | - 1/6 | 44 | 90 x 36 | 7 | 43,70 | | | | | |

x= ab Lager, Zwischenverkauf vorbehalten
x= normally ex stock

□= Verfügbar auf Anfrage
□= available on request

Dreh-Ø = Empfehlung, Grenzmaße siehe Norm
Turning-Ø = Recommendation. Limits see standar

Sonder-Gewindeschneideisen / Hartmetall-Schneideisen Special Dies / Carbide Dies

Neben dem Standardprogramm fertigen wir für Sie alle Arten von Sonder-Gewindeschneideisen:

- Sonderbaumaße für im Katalog aufgeführte Gewindearten
- Sondergewindeprofile
- Anpassung an besondere Werkstoffe
- Automatschneideisen für Spezialmaschinen

Hartmetall-Schneideisen mit geschliffenem und hinterschliffenem Gewinde für Rotguss und Messing

- Metrische Gewinde $> \varnothing 16$ mm und Steigungen von 1 mm bis 2,5 mm
- Zylindrische und konische Rohrgewinde $> \varnothing 1/2''$ und Steigungen von 14 Gang bis 11 Gang
- Aus Vollhartmetall oder mit eingelöteten Hartmetall-Schneidstegen

Zur Herstellung von Schneideisen mit Spezial-Gewindeprofilen sind ggf. Hilfswerkzeuge erforderlich. Falls nicht vorhanden, müssen wir die Kosten hierfür in Rechnung stellen.



We produce all kind of special dies in addition to our standard program.

- *Special dimensions for thread forms, mentioned in the catalogue*
- *Special thread profiles*
- *Modifications to suit problematic materials*
- *Die for special automatic machines*

Carbide Dies with ground and relief-ground thread, for red-brass castings and brass

- Metric threads $> \varnothing 16$ mm and pitches from 1 mm to 2,5 mm
- Cylindrical and taper pipe threads $> \varnothing 1/2''$ and pitches from 14 TPI to 11 TPI
- Solid carbide and brazed carbide lands

For the production of dies with special thread profiles special production tools are sometimes needed. Any additional tooling charges will be quoted separately.

Begriffe und Bezeichnungen an Schneideisen Terms on Dies

| | | | |
|-----------------|-----------------------------------|---|--------------------------------------|
| | a | Stegbreite | width of land |
| | c | Breite der 90° - Nut | width of V flute |
| | d | Gewinde Nenn-Ø | nominal-Ø of thread |
| | D | Außen-Ø | outside-Ø of die |
| | D ₂ | Ø der Schneidglocke | bell-Ø |
| | d ₃ | Vorbau-Ø | extension-Ø |
| | d ₄ | Ø-Bohrung für Halteschraube | spot-hole-Ø |
| | d ₅ | Halteloch-Ø | Ø-of hole for holding screw |
| | d ₆ | Abstand Haltelöcher | distance between holding screw holes |
| | e | Vorbauhöhe | height of extension |
| | E | Breite des Schneideisens | width of die |
| | N | Anzahl Spanlöcher | number of clearance holes |
| | S ₅ | Anschnittinterschliff | radial relief of chamfer |
| | α _p | Anschnittfreiwinkel | chamfer relief angle |
| χ _r | Anschnittwinkel = 1/2 Senkwinkel) | chamfer angle (= 1/2 countersink angle) | |
| γ _{fA} | Schälanschnittwinkel | spiral point angle | |
| γ _p | Spanwinkel | rake angle | |
| 1 | Spanloch | clearance hole | |
| 2 | Schälanschnitt | Spiral Point | |
| 3 | Steg | land | |
| 4 | Form A geschlitzt | form A slotted | |
| 5 | Form B geschlossen | form B closed/solid | |
| 6 | Halteloch | holding screw holes | |
| 7 | erweitertes Spanloch | extended clearance hole | |