Schwartz tools + more

# SPANNWERKZEUGE

## PRODUKTKATALOG

Vers. 1.7



*Unter dem Link [www.schwartz-tools.de/spannen/spannzangen-und-innenspannsystem/](www.schwartz-tools.de/spannen/spannzangen-und-innenspannsystem/) stehen für Sie verschiedene Bestellformulare zum Download bereit.*

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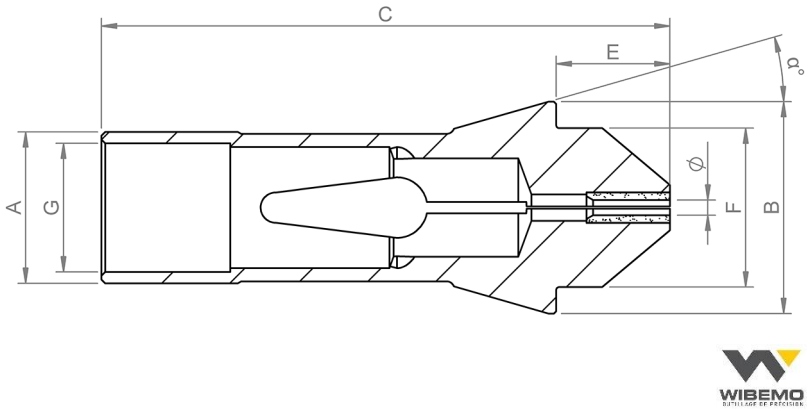
# 1 SPANNZANGEN + INNENSPANNSYSTEM



# 1.1 Spannzangen

## 1.1.1 Vorbauzangen mit HM-bestückt






| Artikel Nr | Typ | EU Norm | A | B | C | E | F | G | α° |
|---|---|---|---|---|---|---|---|---|---|
| 577-10-Ø | F8/577 (LN10) | 101E | 8,00 | 12,00 | 47,50 | 10,00 | 8,00 | M6x0.50 | 16° |
| 86-10-Ø | F10/86 (LN10) | 109E | 10,00 | 15,50 | 52,00 | 10,00 | 10,00 | M8x0.50 | 20° |
| 86-12-Ø | F10/86 (LN12) | 109E | 10,00 | 15,50 | 54,00 | 12,00 | 10,00 | M8x0.50 | 20° |
| 357-12-Ø | F13/357 (LN12) | 116E | 13,00 | 19,00 | 70,00 | 12,00 | 13,00 | M11x0.75 | 16° |
| 580-13-Ø | F15/580 (LN13) | 120E | 15,00 | 21,00 | 71,00 | 13,00 | 15,00 | M12x0.75 | 16° |
| 580-18-Ø | F15/580 (LN18) | 120E | 15,00 | 21,00 | 76,00 | 18,00 | 15,00 | M12x0.75 | 16° |
| 1076-13-Ø | F16/1076 (LN13) | 1212E | 16,00 | 21,00 | 71,00 | 13,00 | 16,00 | M14x0.75 | 16° |
| 87-15-Ø | F20/87 (LN15) | 138E | 20,00 | 28,00 | 75,00 | 15,00 | 21,00 | M18x1 | 16° |
| 87-20-Ø | F20/87 (LN20) | 138E | 20,00 | 28,00 | 80,00 | 20,00 | 21,00 | M18x1 | 16° |
| 201-13-Ø | F20/201 (LN13) | 136E | 20,00 | 26,00 | 62,00 | 13,00 | 19,00 | M18x1 | 15° |
| 71-18-Ø | F22/71 (LN18) | 140E | 22,00 | 30,00 | 67,00 | 18,00 | 21,00 | M20x1 | 15° |
| 64-18-Ø | F25/64 (LN18) | 145E | 25,00 | 35,00 | 85,00 | 18,00 | 27,00 | M22x1 | 16° |
| 101-20-Ø | F30/101 (LN20) | 1446E | 30,00 | 38,00 | 79,00 | 20,00 | 32,00 | - | 15° |
| 94-27-Ø | F35/94 (LN27) | 163E | 35,00 | 43,00 | 90,00 | 27,00 | 34,00 | - | 15° |
| 740-25-Ø | F37/740 (LN25) | 1536E | 37,00 | 47,00 | 107,00 | 25,00 | 40,00 | - | 16° |

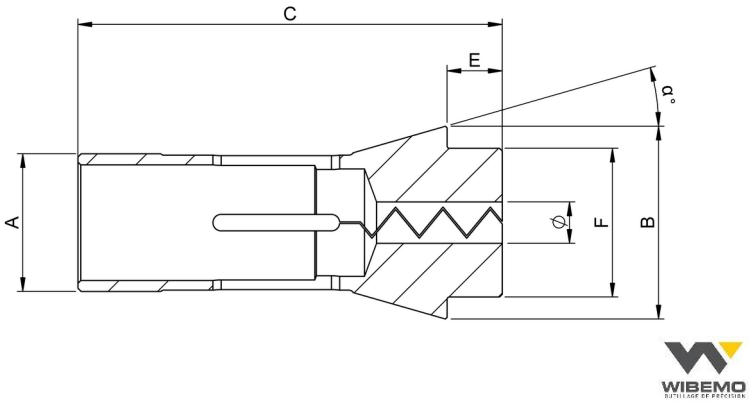
**Vorteile :**

- Hohe Lebensdauer und geringer Verschleiß der Bohrung durch Hartmetalleinsatz
- Rundlauf UP
- Ausführung mit schmalen Schlitzen für kleine Teiledurchmesser
- Ausrüstbar mit oder ohne Auswerfer
- Hochglanzgeläppte Bohrung auf Anfrage
- Sonderanfertigung nach Zeichnung

Für weiterer Fragen stehen wir gerne zur Verfügung

## 1.1.2 Spannzangen mit verzahnten Schlitzen





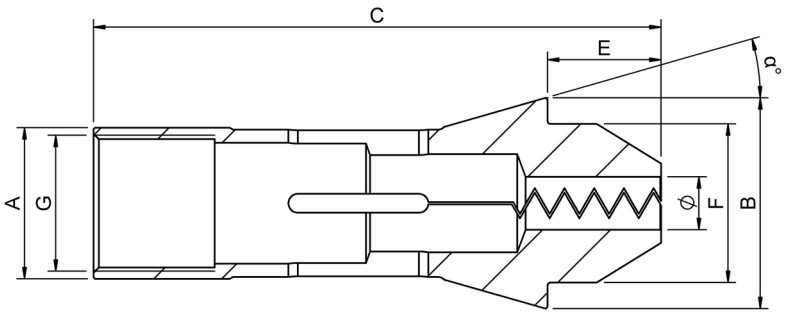

| Artikel Nr | Typ | EU Norm | A | B | C | E | F | α° |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 577-Ø | F8/577 | 101E | 8.00 | 12.00 | 42.00 | 4.50 | 8.00 | 16° |
| 86-Ø | F10/86 | 109E | 10.00 | 15.50 | 47.50 | 5.50 | 10.00 | 20° |
| 78-Ø | F12/78 | 1155E | 12.00 | 18.10 | 44.50 | 4.30 | 12.00 | 15° |
| 357-Ø | F13/357 | 116E | 13.00 | 19.00 | 64.00 | 6.00 | 13.00 | 16° |
| 98-Ø | F14/98 | 117E | 14.00 | 18.00 | 46.00 | 4.00 | 14.00 | 13° |
| 358-Ø | F15/358 | 121E | 15.00 | 22.00 | 47.00 | 5.00 | 15.00 | 20° |
| 580-Ø | F15/580 | 120E | 15.00 | 21.00 | 64.00 | 6.00 | 15.00 | 16° |
| 104-Ø | F16/104 | 123E | 16.00 | 22.00 | 55.00 | 5.00 | 16.00 | 15° |
| 830-Ø | F16/830 | | 16.00 | 21.00 | 66.00 | 8.00 | 16.00 | 16° |
| 1076-Ø | F16/1076 | 1212E | 16.00 | 21.00 | 64.00 | 6.00 | 16.00 | 16° |
| 87-Ø | F20/87 | 138E | 20.00 | 28.00 | 67.00 | 7.00 | 21.00 | 16° |
| 201-Ø | F20/201 | 136E | 20.00 | 26.00 | 54.00 | 5.00 | 19.00 | 15° |
| 71-Ø | F22/71 | 140E | 22.00 | 30.00 | 55.00 | 6.00 | 21.00 | 15° |
| 64-Ø | F25/64 | 145E | 25.00 | 35.00 | 77.00 | 10.00 | 27.00 | 16° |
| 93-Ø | F28/93 | 148E | 28.00 | 38.00 | 70.00 | 7.00 | 28.00 | 15° |
| 63-Ø | F30/63 | 157E | 30.00 | 42.00 | 80.00 | 10.00 | 34.00 | 16° |
| 101-Ø | F30/101 | 1446E | 30.00 | 38.00 | 65.00 | 6.00 | 32.00 | 15° |
| 221-Ø | F32/221 | 161E | 32.00 | 45.00 | 75.00 | 8.00 | 34.00 | 15° |
| 94-Ø | F35/94 | 163E | 35.00 | 48.00 | 80.00 | 8.00 | 38.00 | 15° |
| 740-Ø | F37/740 | 1536E | 37.00 | 47.00 | 92.00 | 10.00 | 40.00 | 16° |
| 72-Ø | F38/72 | 164E | 38.08 | 49.00 | 107.50 | 9.00 | 38.00 | 15° |
| 99-Ø | F42/99 | 171E | 42.00 | 55.00 | 94.00 | 9.00 | 42.00 | 15° |
| 81-Ø | F48/81 | 173E | 48.00 | 60.00 | 94.00 | 9.00 | 50.00 | 15° |

**Vorteile :**

- Spannbereich bis 0.2 mm
- Hochpräzision im gesamten Spannbereich
- Überbrückt Ø-Schwankungen des Stangenmaterials
- Ermöglicht das Spannen von Sechskantprofilen, Quadratprofilen, auf Gewinden etc. ohne Positionierung
- Verhindert Spannabdrücke auf der Stange oder dem Teil
- Hohe gleichmäßige Spannkraft
- Verhindert das Eindringen von Spänen in die Spannbohrung
- Ideal für das Spannen von medizinischen Schrauben
- konstante Anlage an das Gewinde selbst bei Schwankung des Toleranzbereichs.
- HM - Ausführung auf Anfrage

## 1.1.3 Stahlspannzangen mit Vorbau und verzahnten Schlitzen






| Artikel Nr | Typ | EU Norm | A | B | C | E | F | G | α° |
|---|---|---|---|---|---|---|---|---|---|
| 577-10-Ø | F8/577 (LN10) | 101E | 8.00 | 12.00 | 47.50 | 10.00 | 8.00 | M6x0.50 | 16° |
| 86-10-Ø | F10/86 (LN10) | 109E | 10.00 | 15.50 | 52.00 | 10.00 | 10.00 | M8x0.50 | 20° |
| 357-12-Ø | F13/357 (LN12) | 116E | 13.00 | 19.00 | 70.00 | 12.00 | 13.00 | M11x0.75 | 16° |
| 580-13-Ø | F15/580 (LN13) | 120E | 15.00 | 21.00 | 71.00 | 13.00 | 15.00 | M12x0.75 | 16° |
| 1076-13-Ø | F16/1076 (LN13) | 1212E | 16.00 | 21.00 | 71.00 | 13.00 | 16.00 | M14x0.75 | 16° |
| 87-15-Ø | F20/87 (LN15) | 138E | 20.00 | 28.00 | 75.00 | 15.00 | 21.00 | M18x1 | 16° |
| 87-20-Ø | F20/87 (LN20) | 138E | 20.00 | 28.00 | 80.00 | 20.00 | 21.00 | M18x1 | 16° |
| 201-13-Ø | F20/201 (LN13) | 136E | 20.00 | 26.00 | 62.00 | 13.00 | 19.00 | M18x1 | 15° |
| 71-18-Ø | F22/71 (LN18) | 140E | 22.00 | 30.00 | 67.00 | 18.00 | 21.00 | M20x1 | 15° |
| 64-18-Ø | F25/64 (LN18) | 145E | 25.00 | 35.00 | 85.00 | 18.00 | 27.00 | M22x1 | 16° |
| 101-20-Ø | F30/101 (LN20) | 1446E | 30.00 | 38.00 | 79.00 | 20.00 | 32.00 | - | 15° |
| 94-27-Ø | F35/94 (LN27) | 163E | 35.00 | 43.00 | 90.00 | 27.00 | 34.00 | - | 15° |
| 740-25-Ø | F37/740 (LN25) | 1536E | 37.00 | 47.00 | 107.00 | 25.00 | 40.00 | - | 16° |

**Vorteile :**

- Spannbereich bis 0.2 mm
- Hochpräzision im gesamten Spannbereich
- Überbrückt Ø-Schwankungen des Stangenmaterials
- Ermöglicht das Spannen von Sechskantprofilen, Quadratprofilen, auf Gewinden etc. ohne Positionierung
- Verhindert Spannabdrücke auf der Stange oder dem Teil
- Hohe gleichmäßige Spannkraft
- Verhindert das Eindringen von Spänen in die Spannbohrung
- Ideal für das Spannen von medizinischen Schrauben
- konstante Anlage an das Gewinde selbst bei Schwankung des Toleranzbereichs.
- HM - Ausführung auf Anfrage

## 1.1.4 Spannzangen bestückt mit Bronze - Standard oder mit Vorbau



**Vorteile :**

- Spannabdrücke an bearbeiteten Teilen oder empfindlichen Oberflächen werden durch die Bestückung der Bohrung mit Bronze verhindert.
- Lieferung auf Anfrage für alle Zangentypen bis zu einem Körper von max. ø37 mm der Version Standard oder mit Vorbau.
- Die Bestückung mit Bronze wurde für ein abdruckfreies Spannen entwickelt.
- Einsetzbar beim Abgreifen auf der Gegenspindel oder beim Spannen des Stangematerials in der Hauptspindel.
- Nicht geeignet für medizinische Teile

## 1.1.5 Spannzangen bestückt mit Phenol - Standard oder mit Vorbau

**Vorteile :**



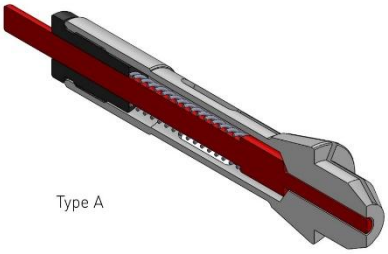
- Spannzange mit einer Spannbohrung aus der synthetischen Faser Phenol wurde für ein abdruckfreies Spannen entwickelt und sind für das Spannen sehr empfindlicher Teile besonders geeignet.
- Spannabdrücke an bearbeiteten Teilen oder empfindlichen Oberflächen werden verhindert.
- Einsetzbar beim Abgreifen auf der Gegenspindel oder beim Spannen des Stangematerials in der Hauptspindel.
- Lieferung auf Anfrage für alle Zangentypen bis zu einem Körper von max. ø37 mm der Version Standard oder mit Vorbau.
- Die Zangen sind verfügbar mit Spannbohrungen ab Ø 1,5 mm
- Der Phenol-Einsatz kann bei Verschleiß direkt auf der Maschine ausgedreht werden.
- Der Phenol-Einsatz kann im Werk ersetzt werden.
- Durch ein Ausdrehen direkt in der Maschine erhöht sich die Rundlaufgenauigkeit.
- Die ideale Alternative zu Zangen aus Kunststoff oder POM

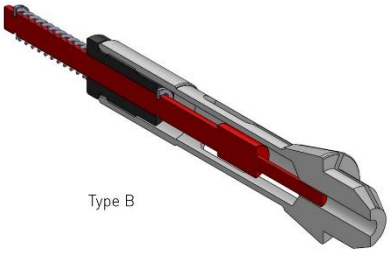
## 1.1.6 Auswerfer und Zubehör für Spannzangen aus Kapitel 1.1.1 bis 1.1.5



- Auswerfer-Rohling (für eigene Anpassung)
- Auf Anfrage liefern wir die Zange mit Auswerfer nach Kundenwunsch / Zeichnung.
- Auswerfer sind aus Stahl oder mit HM-Endstück lieferbar.
- Die Montage erfolgt incl. Feder und Feststellmutter

**Alle Zangen können mit einem Auswerfer vom Typ A oder B ausgestattet werden.**




- Auswerfer Typ A kann für alle Zangentypen angepasst und montiert werden. Der Auswerfer drückt das Teil automatisch mit Federkraft aus der Spannbohrung.
- Er liegt am vorderen Teil der Zange an und wird beim Einführen des Teils nach hinten gedrückt und wieder vorgespannt. Bei Öffnen der Zange wird das Teil durch die Federkraft ausgeworfen.

- Ein Auswerfer Typ B kann auf alle Zangentypen montiert werden. Die Feder hält den Auswerfer hinten in der Zange. Nach dem Auswerfen des Teils durch den
- maschinenseitigen Auswerfemechanismus wird die Auswerferstange der Zange durch die Feder wieder in seine Ausgangsstellung zurückgezogen.



| Artikel Nr | Typ | Gewinde | Ø für Auswerfer |
|---|---|---|---|
| | | | |
| 100851 | F8 | M6x0.5 | 3.00 mm |
| 100830 | F10 | M8x0.5 | 5.00 mm |
| 100361 | F13 | M11x0.75 | 5.00 mm |
| 100849 | F15 | M12x0.75 | 5.00 mm |
| 100850 | F16 | M14x0.75 | 5.00 mm |
| 100262 | F20/87 | M18x1.00 | 7.00 mm |
| 100848 | F20/201 | M18x1.00 | 7.00 mm |
| 100844 | F22 | M20x1.00 | 7.00 mm |
| 100840 | F25 | M22x1.00 | 7.00 mm |

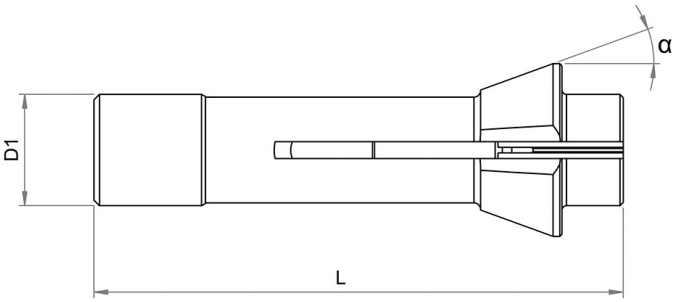
**Federn für Auswerfer**



auf Anfrage

## 1.1.7 HM-Spannzangen

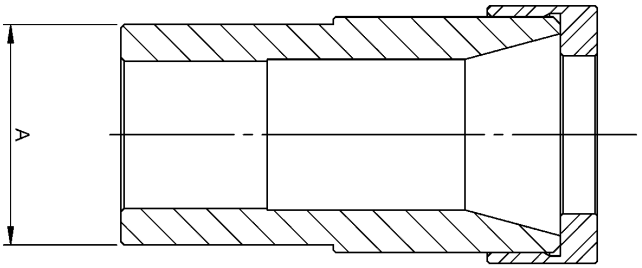





| Artikel Nr | Typ | D1 | L | α | Ø max | 6-Kt max | 4-Kt max |
|---|---|---|---|---|---|---|---|
| **Zange mit HM-Bohrung** | | | | | | | |
| 811 | F7/206 | 7.00 | 26.00 | 15° | 3.00 | 2.70 | 2.20 |
| 551 | F8/577 | 8.00 | 42.00 | 16° | 5.00 | 4.50 | 3.00 |
| 552 | F10/86 | 10.00 | 47.50 | 20° | 7.00 | 6.00 | 5.00 |
| 301 | F10/1178 | 10.00 | 46.00 | 20° | 7.00 | 6.00 | 5.00 |
| 561 | F13/357 | 13.00 | 64.00 | 16° | 8.00 | 7.00 | 5.50 |
| 302 | F14/98 | 14.00 | 46.00 | 13° | 10.00 | 8.50 | 7.00 |
| 553 | F15/580 | 15.00 | 64.00 | 16° | 11.00 | 9.50 | 7.50 |
| 802 | F15/358 | 15.00 | 47.00 | 20° | 10.00 | 8.50 | 7.00 |
| 562 | F16/1076 | 16.00 | 64.00 | 16° | 11.00 | 9.50 | 7.50 |
| 136E | F20/201 | 20.00 | 54.00 | 15° | 14.00 | 11.50 | 9.50 |
| 555 | F20/87 | 20.00 | 67.00 | 16° | 14.00 | 11.50 | 9.50 |
| 804 | F20/102 | 20.00 | 60.00 | 15° | 14.00 | 11.50 | 9.50 |
| 140E | F22/71 | 22.00 | 55.00 | 15° | 15.00 | 13.00 | 10.50 |
| 813 | F22/727 | 22.00 | 67.00 | 16° | 15.00 | 13.00 | 10.50 |
| 556 | F25/64 | 25.00 | 77.00 | 16° | 18.00 | 15.50 | 13.00 |
| 805 | F25/91 | 25.00 | 65.00 | 15° | 17.00 | 15.00 | 12.00 |
| 305 | F26/90 | 26.00 | 67.00 | 13° | 18.00 | 15.50 | 13.00 |
| 148E | F28/93 | 28.00 | 70.00 | 15° | 19.00 | 16.50 | 14.50 |
| 557 | F30/63 | 30.00 | 80.00 | 16° | 22.00 | 19.00 | 15.50 |
| 806 | F30/101 | 30.00 | 65.00 | 15° | 21.00 | 18.00 | 15.00 |
| 158E | F32/221 | 32.00 | 75.00 | 15° | 22.00 | 19.00 | 15.50 |
| 807 | F32/1023 | 32.00 | 65.00 | 15° | 23.00 | 19.50 | 15.00 |
| 558 | F34/1077 | 34.00 | 80.00 | 16° | 24.00 | 21.00 | 17.00 |
| 162E | F35/67 | 35.00 | 70.00 | 15° | 25.00 | 22.00 | 18.00 |
| 163E | F35/94 | 35.00 | 80.00 | 15° | 25.00 | 22.00 | 18.00 |
| 563 | F37/740 | 37.00 | 92.00 | 16° | 30.00 | 26.00 | 22.00 |
| 173E | F48/81 | 48.00 | 94.00 | 15° | 40.00 | 34.00 | 28.00 |
| **CMD Zange = Ø und Kegel aus HM** | | | | | | | |
| 811CMD | F7/206 | 7.00 | 26.00 | 15° | 3.00 | 2.70 | 2.20 |
| 551CMD | F8/577 | 8.00 | 42.00 | 16° | 5.00 | 4.50 | 3.00 |
| 552CMD | F10/86 | 10.00 | 47.50 | 20° | 7.00 | 6.00 | 5.00 |
| 301CMD | F10/1178 | 10.00 | 46.00 | 20° | 7.00 | 6.00 | 5.00 |
| 561CMD | F13/357 | 13.00 | 64.00 | 16° | 8.00 | 7.00 | 5.50 |
| 302CMD | F14/98 | 14.00 | 46.00 | 13° | 10.00 | 8.50 | 7.00 |
| 553CMD | F15/580 | 15.00 | 64.00 | 16° | 11.00 | 9.50 | 7.50 |
| 562CMD | F16/1076 | 16.00 | 64.00 | 16° | 11.00 | 9.50 | 7.50 |

## 1.1.8 Aufnahme zum Ausschleifen von Spannzangen



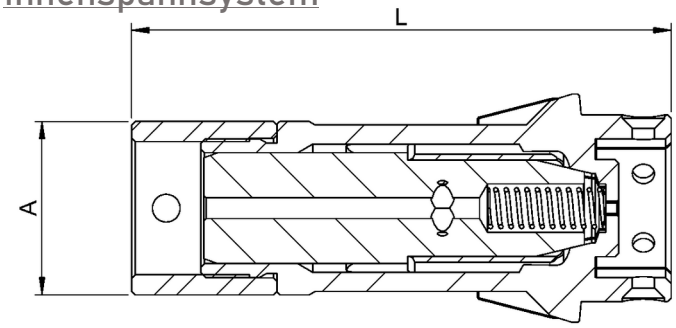



Ausführung aus rostfreiem Stahl

| Artikel Nr | Typ | EU-Norm | A |
|---|---|---|---|
| | | | |
| 150124 | F8/577 | 101E | 22.00 |
| 150125 | F10/86 | 109E | 22.00 |
| 150126 | F13/357 | 116E | 22.00 |
| 150127 | F15/580 | 120E | 22.00 |
| 150133 | F16/1076 | 1212E | 22.00 |
| 150130 | F20/87 | 138E | 30.00 |
| 150129 | F20/201 | 136E | 30.00 |
| 150131 | F22/71 | 140E | 35.00 |
| 150132 | F25/64 | 145E | 35.00 |
| 150776 | F37/740 | 1536E | 45.00 |

# 1.2 Innenspannen

## 1.2.1 Innenspannsystem



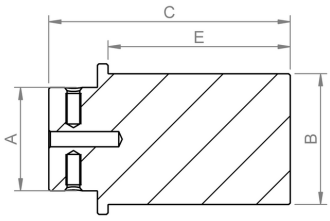



Vorteile :

- Das Innenspannsystem ist eine exklusive Entwicklung der WIBEMO SA und löst das Abgreifen von Teilen in einer Bohrung.
- Diese Spreizdorn-Zange kann genau wie eine Standard-Zange vom Typ F ohne Veränderung der Spannhülse verwendet werden.
- Der Mechanismus ermöglicht eine präzise Teileaufnahme in der Bohrung mit einem Spreizdorn. Die Spannkräfte ermöglichen kleinere Zerspanungsaufgaben am gespannten Werkstück.
- Auf den Grundkörper können fertig geschliffenen Spannbacken (nach Zeichnung geschliffen und gehärtet) oder weiche Spannbacken für die Bearbeitung direkt in der Maschine montiert werden.
- Verschiedene tauschbare Spannbacken können auf dem gleichen Grundkörper angepasst werden

| Artikel Nr | Typ | EU-Norm | A | L |
|---|---|---|---|---|
| | | | | |
| 750-357 | F13/357 | 116E | 13.00 | 65.90 |
| 750-87 | F20/87 | 138E | 20.00 | 70.05 |
| 750-201 | F20/201 | 136E | 20.00 | 58.05 |
| 750-71 | F22/71 | 140E | 22.00 | 62.00 |
| 750-64 | F25/64 | 145E | 25.00 | 78.00 |
| 750-94 | F35/94 | 163E | 35.00 | 92.90 |
| 750-740 | F37/740 | 1536E | 37.00 | 102.00 |
| 750-72 | F38/72 | 164E | 38.00 | 119.50 |
| 750-99 | F42/99 | 171E | 42.00 | 110.00 |
| 750-81 | F48/81 | 173E | 48.00 | 110.00 |



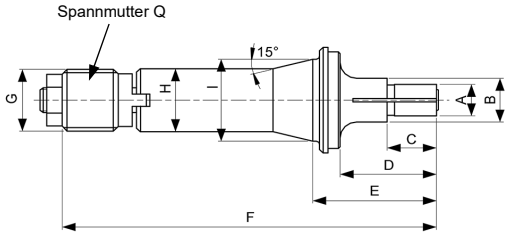



- Spannbacken werden auf den Bohrungsdurchmesser des Drehteils individuell angepasst
- Spannbacken in gehärteter und geschliffener Ausführung oder in weicher Ausführung lieferbar
- Spannbacken werden in gehärteter und geschliffener Ausführung individuell angefertigt
- Spannbacken in weicher Ausführung lassen sich direkt auf der Maschine anpassen

| Artikel Nr | Typ | A | B | C | E |
|---|---|---|---|---|---|
| | | | | | |
| 800-357 | Weiche Nase F13/357 | 8.50 | 10.00 | 21.80 | 15.00 |
| 800-87 | Weiche Nase F20/87 | 14.00 | 15.00 | 29.50 | 20.00 |
| 800-201 | Weiche Nase F20/201 | 14.00 | 13.00 | 23.50 | 14.00 |
| 800-71 | Weiche Nase F22/71 | 16.00 | 17.00 | 35.90 | 25.00 |
| 800-64 | Weiche Nase F25/64 | 20.00 | 20.00 | 43.80 | 30.00 |
| 800-94 | Weiche Nase F35/94 | 29.00 | 33.00 | 60.80 | 40.00 |
| 800-740 | Weiche Nase F37/740 | 30.00 | 35.00 | 61.80 | 40.00 |
| 800-72 | Weiche Nase F38/72 | 29.00 | 33.00 | 61.80 | 40.00 |
| 800-99 | Weiche Nase F42/99 | 30.00 | 37.00 | 69.50 | 50.00 |
| 800-81 | Weiche Nase F48/81 | 34.00 | 43.00 | 79.50 | 60.00 |

## 1.2.2 Spreizdorn Typ W





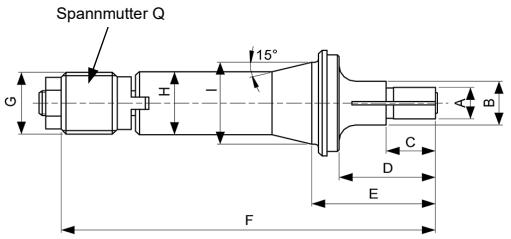

SCHAUBLIN

- Maß **A** in Abstufung von 0,5 mm lieferbar (weitere Maße auf Anfrage)
- Bohrung des Werkstücks muss in H8 gefertigt sein
- Achtung: nicht ohne Werkstück spannen
- Ersatzteile sind auf Anfrage lieferbar
- Lieferung erfolgt ohne Spannmutter **Q**

| Typ | A | B | C | D | E | F | H | I | G |
|---|---|---|---|---|---|---|---|---|---|
| W12 | | | | | | | | | |
| 84-50300 | 4.00-5.00 | 8.00 | 10.00 | 18.00 | 24.10 | 67.50 | 12.00 | 16.00 | Ø 11.75x1.25/45°/5° |
| | 5.01-6.00 | 8.00 | 10.00 | 18.00 | 24.10 | 67.50 | | | |
| | 6.01-8.00 | 10.00 | 10.00 | 18.00 | 24.10 | 67.50 | | | |
| | 8.01-10.00 | 12.00 | 15.00 | 20.00 | 26.10 | 69.50 | | | |
| | 10.01-12.00 | 15.00 | 15.00 | 20.00 | 26.10 | 69.50 | | | |
| | 12.01-15.00 | - | 20.00 | - | 28.60 | 72.00 | | | |
| | 15.01-18.00 | - | 25.00 | - | 33.60 | 77.00 | | | |
| W20 | | | | | | | | | |
| 84-51300 | 4.00-5.00 | 10.00 | 12.00 | 24.00 | 32.00 | 103.00 | 20.00 | 26.30 | Ø19.70x1.666/45°-5° |
| | 5.01-6.00 | 10.00 | 15.00 | 25.00 | 33.00 | 104.00 | | | |
| | 6.01-8.00 | 12.00 | 15.00 | 25.00 | 33.00 | 104.00 | | | |
| | 8.01-10.00 | 14.00 | 15.00 | 25.00 | 33.00 | 104.00 | | | |
| | 10.01-13.00 | 16.00 | 20.00 | 30.00 | 38.00 | 109.00 | | | |
| | 13.01-17.00 | 20.00 | 25.00 | 35.00 | 43.00 | 114.00 | | | |
| | 17.01-21.00 | 24.00 | 25.00 | 35.00 | 43.00 | 114.00 | | | |
| | 21.01-25.00 | 28.00 | 35.00 | 45.00 | 53.00 | 124.00 | | | |
| | 25.01-31.00 | - | 45.00 | - | 53.00 | 124.00 | | | |
| W25 | | | | | | | | | |
| 84-52300 | 4.00-5.00 | 10.00 | 12.00 | 24.00 | 34.00 | 126.00 | 25.00 | 33.70 | Ø24.70x1.693/45°/5° |
| | 5.01-6.00 | 12.00 | 15.00 | 25.00 | 35.00 | 127.00 | | | |
| | 6.01-8.00 | 16.00 | 15.00 | 25.00 | 35.00 | 127.00 | | | |
| | 8.01-10.00 | 16.00 | 15.00 | 25.00 | 35.00 | 127.00 | | | |
| | 10.01-13.00 | 16.00 | 20.00 | 30.00 | 40.00 | 132.00 | | | |
| | 13.01-17.00 | 20.00 | 25.00 | 35.00 | 45.00 | 137.00 | | | |
| | 17.01-21.00 | 24.00 | 30.00 | 40.00 | 50.00 | 142.00 | | | |
| | 21.01-25.00 | 28.00 | 35.00 | 45.00 | 55.00 | 147.00 | | | |
| | 25.01-29.00 | 32.00 | 40.00 | 50.00 | 60.00 | 152.00 | | | |
| | 29.01-33.00 | 36.00 | 45.00 | 50.00 | 60.00 | 152.00 | | | |
| | 33.01-39.00 | - | 50.00 | - | 61.00 | 153.00 | | | |
| | 39.01-41.00 | - | 50.00 | - | 61.00 | 153.00 | | | |

## 1.2.3 Spreizdorn Typ B






SCHAUBLIN

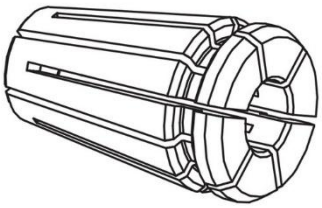
- Maß **A** in Abstufung von 0,5 mm lieferbar (weitere Maße auf Anfrage)
- Bohrung des Werkstücks muss in H8 gefertigt sein
- Achtung: nicht ohne Werkstück spannen
- Ersatzteile sind auf Anfrage lieferbar
- Lieferung erfolgt ohne Spannmutter **Q**

| Typ | A | B | C | D | E | F | H | I | G |
|---|---|---|---|---|---|---|---|---|---|
| B32 | | | | | | | | | |
| 84-10300 | 5.00-6.00 | 12.00 | 15.00 | 25.00 | 35.00 | 135.00 | 32.00 | 40.00 | Ø29.70x1.693/45°/5° |
| | 6.01-8.00 | 16.00 | 15.00 | 25.00 | 35.00 | 135.00 | | | |
| | 8.01-10.00 | 16.00 | 15.00 | 25.00 | 35.00 | 135.00 | | | |
| | 10.01-13.00 | 16.00 | 20.00 | 30.00 | 40.00 | 140.00 | | | |
| | 13.01-17.00 | 20.00 | 25.00 | 35.00 | 45.00 | 145.00 | | | |
| | 17.01-21.00 | 24.00 | 30.00 | 40.00 | 50.00 | 150.00 | | | |
| | 21.01-25.00 | 28.00 | 35.00 | 45.00 | 55.00 | 155.00 | | | |
| | 25.01-29.00 | 32.00 | 40.00 | 50.00 | 60.00 | 160.00 | | | |
| | 29.01-33.00 | 36.00 | 45.00 | 50.00 | 60.00 | 160.00 | | | |
| | 33.01-37.00 | 42.00 | 50.00 | 55.00 | 65.00 | 165.00 | | | |
| | 37.01-41.00 | 45.00 | 55.00 | - | 66.00 | 166.00 | | | |
| | 41.01-45.00 | 45.00 | 55.00 | - | 66.00 | 166.00 | | | |

# 1.3 Original Rego-Fix Spannzangen

## 1.3.1 ER Spannzangen





REGO-FIX®

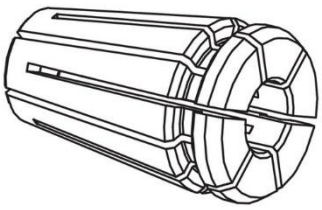
in Standard Rundlauf oder UP lieferbar

| Typ | Bohrung | UP-Artikel-Nr. |
|---|---|---|
| ER8 | | |
| ER8-1.00 | 1.00 - 0.50 | ER8-1.00-UP |
| ER8-1.50 | 1.50 - 1.00 | ER8-1.50-UP |
| ER8-2.00 | 2.00 - 1.50 | ER8-2.00-UP |
| ER8-2.50 | 2.50 - 2.00 | ER8-2.50-UP |
| ER8-3.00 | 3.00 - 2.50 | ER8-3.00-UP |
| ER8-3.50 | 3.50 - 3.00 | ER8-3.50-UP |
| ER8-4.00 | 4.00 - 3.50 | ER8-4.00-UP |
| ER8-4.50 | 4.50 - 4.00 | ER8-4.50-UP |
| ER8-5.00 | 5.00 - 4.50 | ER8-5.00-UP |
| ER11 | | |
| ER11-1.00 | 1.00 - 0.50 | ER11-1.00-UP |
| ER11-1.50 | 1.50 - 1.00 | ER11-1.50-UP |
| ER11-2.00 | 2.00 - 1.50 | ER11-2.00-UP |
| ER11-2.50 | 2.50 - 2.00 | ER11-2.50-UP |
| ER11-3.00 | 3.00 - 2.50 | ER11-3.00-UP |
| ER11-3.50 | 3.50 - 3.00 | ER11-3.50-UP |
| ER11-4.00 | 4.00 - 3.50 | ER11-4.00-UP |
| ER11-4.50 | 4.50 - 4.00 | ER11-4.50-UP |
| ER11-5.00 | 5.00 - 4.50 | ER11-5.00-UP |
| ER11-5.50 | 5.50 - 5.00 | ER11-5.50-UP |
| ER11-6.00 | 6.00 - 5.50 | ER11-6.00-UP |
| ER11-6.50 | 6.50 - 6.00 | ER11-6.50-UP |
| ER11-7.00 | 7.00 - 6.50 | ER11-7.00-UP |
| ER16 | | |
| ER16-1.00 | 1.00 - 0.50 | ER16-1.00-UP |
| ER16-1.50 | 1.50 - 1.00 | ER16-1.50-UP |
| ER16-2.00 | 2.00 - 1.00 | ER16-2.00-UP |
| ER16-2.50 | 2.50 - 1.50 | ER16-2.50-UP |
| ER16-3.00 | 3.00 - 2.00 | ER16-3.00-UP |
| ER16-3.50 | 3.50 - 2.50 | ER16-3.50-UP |
| ER16-4.00 | 4.00 - 3.00 | ER16-4.00-UP |
| ER16-4.50 | 4.50 - 3.50 | ER16-4.50-UP |
| ER16-5.00 | 5.00 - 4.00 | ER16-5.00-UP |
| ER16-5.50 | 5.50 - 4.50 | ER16-5.50-UP |
| ER16-6.00 | 6.00 - 5.00 | ER16-6.00-UP |
| ER16-6.50 | 6.50 - 5.50 | ER16-6.50-UP |

| Typ | Bohrung | UP-Artikel-Nr. |
|---|---|---|
| ER16 | | |
| ER16-6.50 | 6.50 - 5.50 | ER16-6.50-UP |
| ER16-7.00 | 7.00 - 6.00 | ER16-7.00-UP |
| ER16-7.50 | 7.50 - 6.50 | ER16-7.50-UP |
| ER16-8.00 | 8.00 - 7.00 | ER16-8.00-UP |
| ER16-8.50 | 8.50 - 7.50 | ER16-8.50-UP |
| ER16-8.50 | 8.50 - 7.50 | ER16-8.50-UP |
| ER16-9.00 | 9.00 - 8.00 | ER16-9.00-UP |
| ER16-9.50 | 9.50 - 8.50 | ER16-9.50-UP |
| ER16-10.00 | 10.00 - 9.00 | ER16-10.00-UP |
| ER20 | | |
| ER20-1.00 | 1.00 - 0.50 | ER20-1.00-UP |
| ER20-1.50 | 1.50 - 1.00 | ER20-1.50-UP |
| ER20-2.00 | 2.00 - 1.00 | ER20-2.00-UP |
| ER20-2.50 | 2.50 - 1.50 | ER20-2.50-UP |
| ER20-3.00 | 3.00 - 2.00 | ER20-3.00-UP |
| ER20-3.50 | 3.50 - 2.50 | ER20-3.50-UP |
| ER20-4.00 | 4.00 - 3.00 | ER20-4.00-UP |
| ER20-4.50 | 4.50 - 3.50 | ER20-4.50-UP |
| ER20-5.00 | 5.00 - 4.00 | ER20-5.00-UP |
| ER20-5.50 | 5.50 - 4.50 | ER20-5.50-UP |
| ER20-6.00 | 6.00 - 5.00 | ER20-6.00-UP |
| ER20-6.50 | 6.50 - 5.50 | ER20-6.50-UP |
| ER20-7.00 | 7.00 - 6.00 | ER20-7.00-UP |
| ER20-7.50 | 7.50 - 6.50 | ER20-7.50-UP |
| ER20-8.00 | 8.00 - 7.00 | ER20-8.00-UP |
| ER20-8.50 | 8.50 - 7.50 | ER20-8.50-UP |
| ER20-9.00 | 9.00 - 8.00 | ER20-9.00-UP |
| ER20-9.50 | 9.50 - 8.50 | ER20-9.50-UP |
| ER20-10.00 | 10.00 - 9.00 | ER20-10.00-UP |
| ER20-10.50 | 10.50 - 9.50 | ER20-10.50-UP |
| ER20-11.00 | 11.00 - 10.00 | ER20-11.00-UP |
| ER20-11.50 | 11.50 - 10.50 | ER20-11.50-UP |
| ER20-12.00 | 12.00 - 11.00 | ER20-12.00-UP |
| ER20-12.50 | 12.50 - 11.50 | ER20-12.50-UP |
| ER20-13.00 | 13.00 - 12.00 | ER20-13.00-UP |

# ER Spannzangen





REGO-FIX®

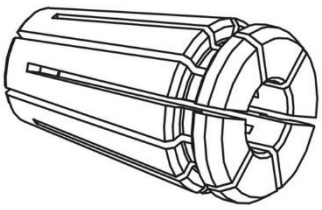
in Standard Rundlauf oder UP lieferbar

| Typ | Bohrung | UP-Typ |
|---|---|---|
| ER25 | | |
| ER25-1.00 | 1.00 - 0.50 | ER25-1.00-UP |
| ER25-1.50 | 1.50 - 1.00 | ER25-1.50-UP |
| ER25-2.00 | 2.00 - 1.00 | ER25-2.00-UP |
| ER25-2.50 | 2.50 - 1.50 | ER25-2.50-UP |
| ER25-3.00 | 3.00 - 2.00 | ER25-3.00-UP |
| ER25-3.50 | 3.50 - 2.50 | ER25-3.50-UP |
| ER25-4.00 | 4.00 - 3.00 | ER25-4.00-UP |
| ER25-4.50 | 4.50 - 3.50 | ER25-4.50-UP |
| ER25-5.00 | 5.00 - 4.00 | ER25-5.00-UP |
| ER25-5.50 | 5.50 - 4.50 | ER25-5.50-UP |
| ER25-6.00 | 6.00 - 5.00 | ER25-6.00-UP |
| ER25-6.50 | 6.50 - 5.50 | ER25-6.50-UP |
| ER25-7.00 | 7.00 - 6.00 | ER25-7.00-UP |
| ER25-7.50 | 7.50 - 6.50 | ER25-7.50-UP |
| ER25-8.00 | 8.00 - 7.00 | ER25-8.00-UP |
| ER25-8.50 | 8.50 - 7.50 | ER25-8.50-UP |
| ER25-9.00 | 9.00 - 8.00 | ER25-9.00-UP |
| ER25-9.50 | 9.50 - 8.50 | ER25-9.50-UP |
| ER25-10.00 | 10.00 - 9.00 | ER25-10.00-UP |
| ER25-10.50 | 10.50 - 9.50 | ER25-10.50-UP |
| ER25-11.00 | 11.00 - 10.00 | ER25-11.00-UP |
| ER25-11.50 | 11.50 - 10.50 | ER25-11.50-UP |
| ER25-12.00 | 12.00 - 11.00 | ER25-12.00-UP |
| ER25-12.50 | 12.50 - 11.50 | ER25-12.50-UP |
| ER25-13.00 | 13.00 - 12.00 | ER25-13.00-UP |
| ER25-13.50 | 13.50 - 12.50 | ER25-13.50-UP |
| ER25-14.00 | 14.00 - 13.00 | ER25-14.00-UP |
| ER25-14.50 | 14.50 - 13.50 | ER25-14.50-UP |
| ER25-15.00 | 15.00 - 14.00 | ER25-15.00-UP |
| ER25-15.50 | 15.50 - 14.50 | ER25-15.50-UP |
| ER25-16.00 | 16.00 - 15.00 | ER25-16.00-UP |
| ER25-17.00 | 17.00 - 16.00 | ER25-17.00-UP |
| ER32 | | |
| ER32-2.00 | 2.00 - 1.00 | ER32-2.00-UP |
| ER32-2.50 | 2.50 - 1.50 | ER32-2.50-UP |
| ER32-3.00 | 3.00 - 2.00 | ER32-3.00-UP |
| ER32-3.50 | 3.50 - 2.50 | ER32-3.50-UP |
| ER32-4.00 | 4.00 - 3.00 | ER32-4.00-UP |
| ER32-4.50 | 4.50 - 3.50 | ER32-4.50-UP |
| ER32-5.00 | 5.00 - 4.00 | ER32-5.00-UP |
| ER32-5.50 | 5.50 - 4.50 | ER32-5.50-UP |
| ER32-6.00 | 6.00 - 5.00 | ER32-6.00-UP |

| Typ | Bohrung | UP-Typ |
|---|---|---|
| ER32 | | |
| ER32-6.50 | 6.50 - 5.50 | ER32-6.50-UP |
| ER32-7.00 | 7.00 - 6.00 | ER32-7.00-UP |
| ER32-7.50 | 7.50 - 6.50 | ER32-7.50-UP |
| ER32-8.00 | 8.00 - 7.00 | ER32-8.00-UP |
| ER32-8.50 | 8.50 - 7.50 | ER32-8.50-UP |
| ER32-9.00 | 9.00 - 8.00 | ER32-9.00-UP |
| ER32-9.50 | 9.50 - 8.50 | ER32-9.50-UP |
| ER32-10.00 | 10.00 - 9.00 | ER32-10.00-UP |
| ER32-10.50 | 10.50 - 9.50 | ER32-10.50-UP |
| ER32-11.00 | 11.00 - 10.00 | ER32-11.00-UP |
| ER32-11.50 | 11.50 - 10.50 | ER32-11.50-UP |
| ER32-12.00 | 12.00 - 11.00 | ER32-12.00-UP |
| ER32-12.50 | 12.50 - 11.50 | ER32-12.50-UP |
| ER32-13.00 | 13.00 - 12.00 | ER32-13.00-UP |
| ER32-13.50 | 13.50 - 12.50 | ER32-13.50-UP |
| ER32-14.00 | 14.00 - 13.00 | ER32-14.00-UP |
| ER32-14.50 | 14.50 - 13.50 | ER32-14.50-UP |
| ER32-15.00 | 15.00 - 14.00 | ER32-15.00-UP |
| ER32-15.50 | 15.50 - 14.50 | ER32-15.50-UP |
| ER32-16.00 | 16.00 - 15.00 | ER32-16.00-UP |
| ER32-16.50 | 16.50 - 15.50 | ER32-16.50-UP |
| ER32-17.00 | 17.00 - 16.00 | ER32-17.00-UP |
| ER32-17.50 | 17.50 - 16.50 | ER32-17.50-UP |
| ER32-18.00 | 18.00 - 17.00 | ER32-18.00-UP |
| ER32-18.50 | 18.50 - 17.50 | ER32-18.50-UP |
| ER32-19.00 | 19.00 - 18.00 | ER32-19.00-UP |
| ER32-19.50 | 19.50 - 18.50 | ER32-19.50-UP |
| ER32-20.00 | 20.00 - 19.00 | ER32-20.00-UP |
| ER32-21.00 | 21.00 - 20.00 | ER32-21.00-UP |
| ER32-22.00 | 22.00 - 21.00 | ER32-22.00-UP |
| ER40 | | |
| ER40-3.00 | 3.00 - 2.00 | ER40-3.00-UP |
| ER40-3.50 | 3.50 - 2.50 | ER40-3.50-UP |
| ER40-4.00 | 4.00 - 3.00 | ER40-4.00-UP |
| ER40-4.50 | 4.50 - 3.50 | ER40-4.50-UP |
| ER40-5.00 | 5.00 - 4.00 | ER40-5.00-UP |
| ER40-5.50 | 5.50 - 4.50 | ER40-5.50-UP |
| ER40-6.00 | 6.00 - 5.00 | ER40-6.00-UP |
| ER40-6.50 | 6.50 - 5.50 | ER40-6.50-UP |
| ER40-7.00 | 7.00 - 6.00 | ER40-7.00-UP |
| ER40-7.50 | 7.50 - 6.50 | ER40-7.50-UP |
| ER40-8.00 | 8.00 - 7.00 | ER40-8.00-UP |

# ER Spannzangen





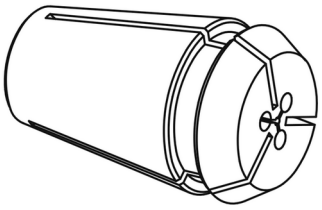
REGO-FIX®

in Standard Rundlauf oder UP lieferbar

| Typ | Bohrung | UP-Typ |
|---|---|---|
| ER40 | | |
| ER40-8.50 | 8.50 - 7.50 | ER40-8.50-UP |
| ER40-9.00 | 9.00 - 8.00 | ER40-9.00-UP |
| ER40-9.50 | 9.50 - 8.50 | ER40-9.50-UP |
| ER40-10.00 | 10.00 - 9.00 | ER40-10.00-UP |
| ER40-10.50 | 10.50 - 9.50 | ER40-10.50-UP |
| ER40-11.00 | 11.00 - 10.00 | ER40-11.00-UP |
| ER40-11.50 | 11.50 - 10.50 | ER40-11.50-UP |
| ER40-12.00 | 12.00 - 11.00 | ER40-12.00-UP |
| ER40-12.50 | 12.50 - 11.50 | ER40-12.50-UP |
| ER40-13.00 | 13.00 - 12.00 | ER40-13.00-UP |
| ER40-13.50 | 13.50 - 12.50 | ER40-13.50-UP |
| ER40-14.00 | 14.00 - 13.00 | ER40-14.00-UP |
| ER40-14.50 | 14.50 - 13.50 | ER40-14.50-UP |
| ER40-15.00 | 15.00 - 14.00 | ER40-15.00-UP |
| ER40-15.50 | 15.50 - 14.50 | ER40-15.50-UP |
| ER40-16.00 | 16.00 - 15.00 | ER40-16.00-UP |
| ER40-16.50 | 16.50 - 15.50 | ER40-16.50-UP |
| ER40-17.00 | 17.00 - 16.00 | ER40-17.00-UP |
| ER40-17.50 | 17.50 - 16.50 | ER40-17.50-UP |
| ER40-18.00 | 18.00 - 17.00 | ER40-18.00-UP |
| ER40-18.50 | 18.50 - 17.50 | ER40-18.50-UP |
| ER40-19.00 | 19.00 - 18.00 | ER40-19.00-UP |
| ER40-19.50 | 19.50 - 18.50 | ER40-19.50-UP |
| ER40-20.00 | 20.00 - 19.00 | ER40-20.00-UP |

| Typ | Bohrung | UP-Typ |
|---|---|---|
| ER40 | | |
| ER40-20.50 | 20.50 - 19.50 | ER40-20.50-UP |
| ER40-21.00 | 21.00 - 20.00 | ER40-21.00-UP |
| ER40-21.50 | 21.50 - 20.50 | ER40-21.50-UP |
| ER40-22.00 | 22.00 - 21.00 | ER40-22.00-UP |
| ER40-22.50 | 22.50 - 21.50 | ER40-22.50-UP |
| ER40-23.00 | 23.00 - 22.00 | ER40-23.00-UP |
| ER40-23.50 | 23.50 - 22.50 | ER40-23.50-UP |
| ER40-24.00 | 24.00 - 23.00 | ER40-24.00-UP |
| ER40-24.50 | 24.50 - 23.50 | ER40-24.50-UP |
| ER40-25.00 | 25.00 - 24.00 | ER40-25.00-UP |
| ER40-25.00 | 25.50 - 24.50 | ER40-25.00-UP |
| ER40-26.00 | 26.00 - 25.00 | ER40-26.00-UP |
| ER50-18.00 | 18.00 - 16.00 | ER50-18.00-UP |
| ER50-20.00 | 20.00 - 18.00 | ER50-20.00-UP |
| ER50-22.00 | 22.00 - 20.00 | ER50-22.00-UP |
| ER50-24.00 | 24.00 - 22.00 | ER50-24.00-UP |
| ER50-25.00 | 25.00 - 23.00 | ER50-25.00-UP |
| ER50-26.00 | 26.00 - 24.00 | ER50-26.00-UP |
| ER50-28.00 | 28.00 - 26.00 | ER50-28.00-UP |
| ER50-30.00 | 30.00 - 28.00 | ER50-30.00-UP |
| ER50-32.00 | 32.00 - 30.00 | ER50-32.00-UP |
| ER50-34.00 | 34.00 - 32.00 | ER50-34.00-UP |
| ER50-36.00 | 36.00 - 34.00 | ER50-36.00-UP |

## 1.3.2 ER-MB Spannzangen für Mikrobohrer



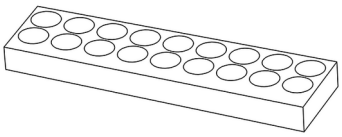
REGO-FIX®

| Typ | Bohrung |
|---|---|
| ER8 | |
| ER8-MB-0.20 | 0.20 |
| ER8-MB-0.30 | 0.30 |
| ER8-MB-0.40 | 0.40 |
| ER8-MB-0.50 | 0.50 |
| ER8-MB-0.60 | 0.60 |
| ER8-MB-0.70 | 0.70 |
| ER8-MB-0.80 | 0.80 |
| ER8-MB-0.90 | 0.90 |
| ER11 | Bohrung |
| ER11-MB-0.20 | 0.20 |
| ER11-MB-0.30 | 0.30 |
| ER11-MB-0.40 | 0.40 |
| ER11-MB-0.50 | 0.50 |
| ER11-MB-0.60 | 0.60 |
| ER11-MB-0.70 | 0.70 |
| ER11-MB-0.80 | 0.80 |
| ER11-MB-0.90 | 0.90 |
| ER16 | |
| ER16-MB-0.20 | 0.20 |
| ER16-MB-0.30 | 0.30 |
| ER16-MB-0.40 | 0.40 |
| ER16-MB-0.50 | 0.50 |
| ER16-MB-0.60 | 0.60 |
| ER16-MB-0.70 | 0.70 |
| ER16-MB-0.80 | 0.80 |
| ER16-MB-0.90 | 0.90 |

## 1.3.3 ER Spannzangensätze

| Typ | Bohrung | Inhalt |
|---|---|---|
| | | |
| ER8-SET | 0.50 - 5.00 | 9 Zangen + 1 Sockel ZWT/8 |
| ER8-SETUP | 0.50 - 5.00 | 9 Zangen + 1 Sockel ZWT/8 |
| ER11-SET | 0.50 - 7.00 | 13 Zangen + 1 Sockel ZWT/11 |
| ER11-SETUP | 0.50 - 7.00 | 13 Zangen + 1 Sockel ZWT/11 |
| ER16-SET | 0.50 - 10.00 | 10 Zangen + 1 Sockel ZWT/16 |
| ER16-SETUP | 0.50 - 10.00 | 10 Zangen + 1 Sockel ZWT/16 |
| ER20-SET | 1.00 - 13.00 | 12 Zangen + 1 Sockel ZWT/20 |
| ER20-SETUP | 1.00 - 13.00 | 12 Zangen + 1 Sockel ZWT/20 |
| ER25-SET | 1.00 - 16.00 | 15 Zangen + 1 Sockel ZWT/25 |
| ER25-SETUP | 1.00 - 16.00 | 15 Zangen + 1 Sockel ZWT/25 |
| ER32-SET | 2.00 - 20.00 | 18 Zangen + 1 Sockel ZWT/32 |
| ER32-SETUP | 2.00 - 20.00 | 18 Zangen + 1 Sockel ZWT/32 |
| ER40-SET | 3.00 - 26.00 | 23 Zangen + 1 Sockel ZWT/40 |
| ER40-SETUP | 3.00 - 26.00 | 23 Zangen + 1 Sockel ZWT/40 |
| ER50-SET | 10.00 - 34.00 | 12 Zangen + 1 Sockel ZWT/50 |
| ER50-SETUP | 10.00 - 34.00 | 12 Zangen + 1 Sockel ZWT/50 |

## 1.3.4 ER Sockel für Spannzangensätze



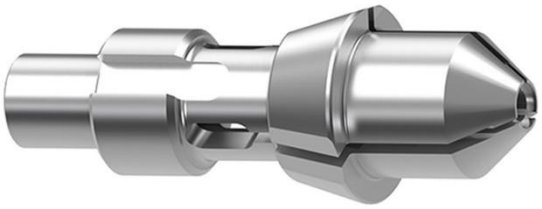
Übersichtliche Lagerung :

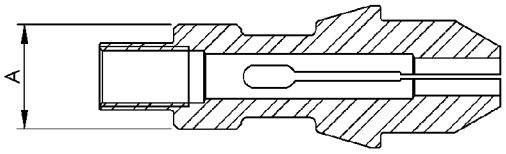
Aus hochwertigem Schaumstoff gefertigt mit Beschriftung des Spannzangen Ø

| Artikel Nr | Typ | Zangen Anzahl |
|---|---|---|
| | | |
| 712.108.000 | ZWT/8 | 9,00 |
| 712.111.000 | ZWT/11 | 13,00 |
| 712.116.000 | ZWT/16 | 10,00 |
| 712.120.000 | ZWT/20 | 12,00 |
| 712.125.000 | ZWT/25 | 15,00 |
| 712.132.000 | ZWT/32 | 18,00 |
| 712.140.000 | ZWT/40 | 23,00 |
| 712.150.000 | ZWT/50 | 12,00 |

# 1.4 Transportarm-Zangen

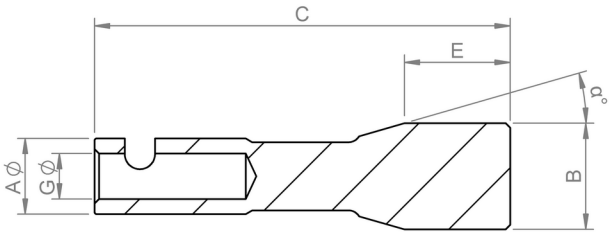
## 1.4.1 Transportarm-Zangen zu TORNOS Maschinen






| Artikel Nr | Typ | A |
|---|---|---|
| | | |
| Trans-T5 | Tornos (12-EA) | 5,00 |
| Trans-T7 | Tornos (12-UB / 12-JB / 34-DA) | 7,00 |
| Trans-T8 | Tornos (34-DA) | 8,00 |
| Trans-T10 | Tornos (34-DA) | 10,00 |
| Trans-T12 | Tornos (34-DA) | 12,00 |
| Trans-T18 | Tornos (14-DA) | 18,00 |

## 1.4.2 Transportarm-Zange zu M4-T4 Sonderausführung

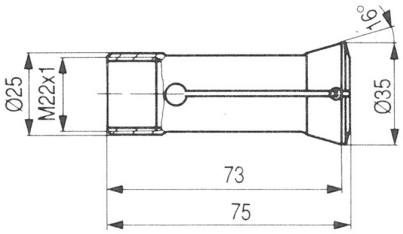
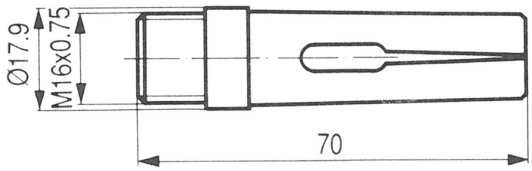
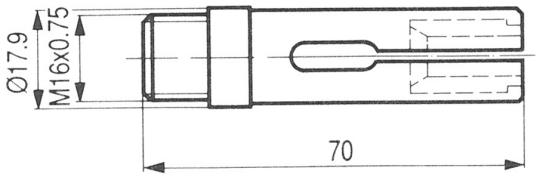
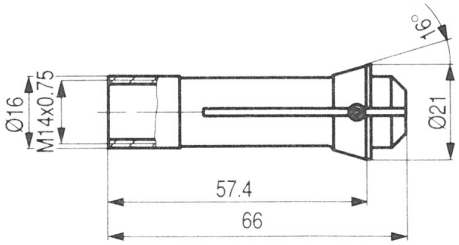



| Artikel Nr | Typ |
|---|---|
| | |
| Trans-T05 | M4-T4 (14-OA) |

# 1.5 Zangen für TORNOS Mehrspindler

SCHAUBLIN

## 1.5.1 Spannzangen für Tornos AS14

| | | | |
|---|---|---|---|
| Typ:<br>Art-Nr.<br>Ref. Tornos: | P25<br>78-334<br>AS 12115 |  | Spindelzange |
| Typ:<br>Art-Nr.<br>Ref. Tornos: | A17.9<br>71-335<br>AS 1265 |  | Vorschubzange |
| Typ:<br>Art-Nr.<br>Ref. Tornos: | P17.9<br>71-213<br>AS 12245-2 |  | Vorschubzangen-Körper |
| Typ:<br>Art-Nr.<br>Ref. Tornos: | F16<br>76-830<br>AS 621025 |  | Abgreifspindel- Zange |

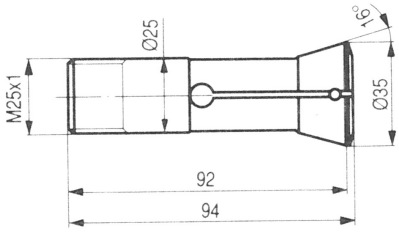
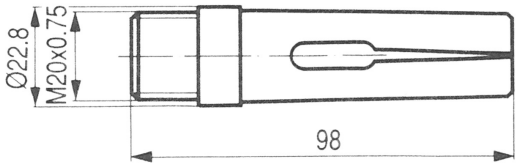
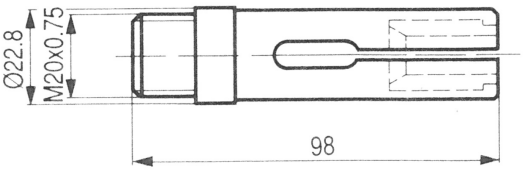
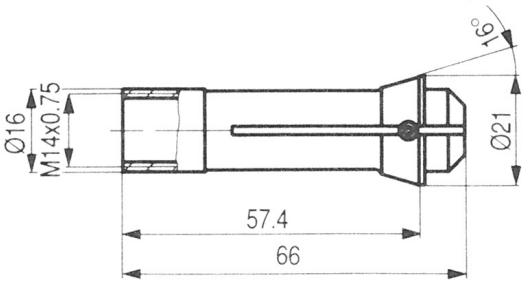




Vorschub-Spannbacken in Bronze oder HM lieferbar

## 1.5.2 Spannzangen für Tornos SAS 16

SCHAUBLIN

| | | | |
|---|---|---|---|
| Typ:<br>Art-Nr.<br>Ref. Tornos: | W25<br>80-1923<br>AS 12607 |  | Spindelzange |
| Typ:<br>Art-Nr.<br>Ref. Tornos: | A22.8<br>71-1922<br>AS 12611 |  | Vorschubzange |
| Typ:<br>Art-Nr.<br>Ref. Tornos: | A22.8<br>71-2011<br>A 138997 |  | Vorschubzangen-Körper |
| Typ:<br>Art-Nr.<br>Ref. Tornos: | F16<br>76-830<br>AS 621025 |  | Abgreifspindel- Zange |



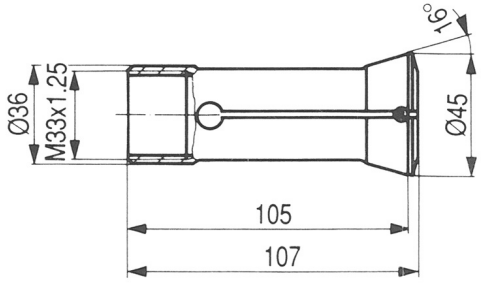


Vorschub-Spannbacken in Bronze oder HM lieferbar

## 1.5.3 Spannzangen für Tornos BS 20

SCHAUBLIN

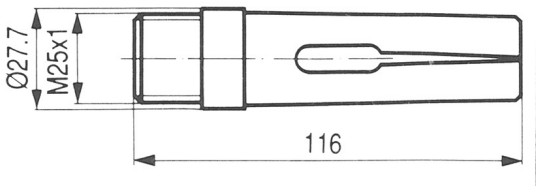
| | |
|---|---|
| Typ: | P36 |
| Art-Nr. | 78-2007 |
| Ref. Tornos: | BS 12367 |




Spindelzange

üblich als Satz von 6/8 Stück geliefert

| | |
|---|---|
| Typ: | A27.7 |
| Art-Nr. | 71-2000 |
| Ref. Tornos: | BS 12369 |




Vorschubzange

üblich als Satz von 6/8 Stück geliefert

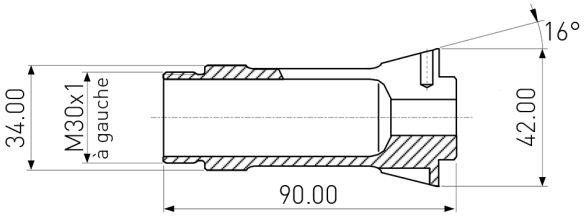
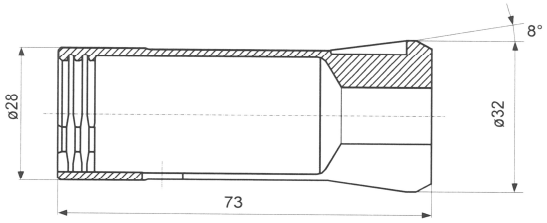


Vorschub-Spannbacken in Bronze oder HM lieferbar

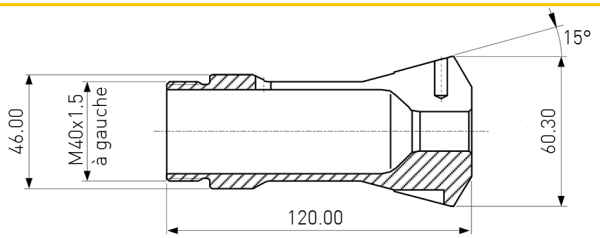
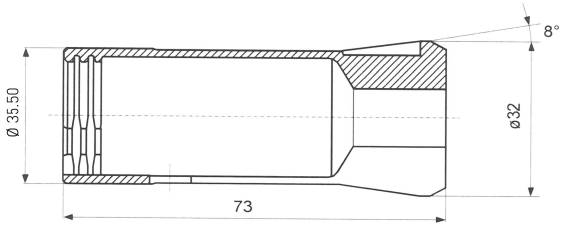
## 1.5.4 Spannzangen für Tornos MultiDeco und MultiSigma

SCHAUBLIN

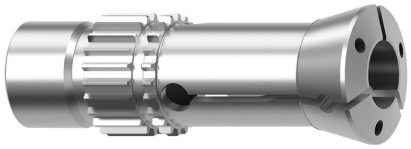
### Zangen zu Tornos MultiDeco 20/6 und 20/8

| | | | |
|---|---|---|---|
| Typ: | B34 |  | Spindelzange |
| Art-Nr. | 72-1820 | | |
| Typ: | PR28 |  | Abgreifspindelzange |
| Art-Nr. | 78-2013 | | |

### Zangen zu Tornos MultiDeco 26/6 und 32/6 oder MultiSigma / MultiAlpha 28/8

| | | | |
|---|---|---|---|
| Typ: | B46 |  | Spindelzange |
| Art-Nr. | 72-2007 | | |
| Typ: | PR35.5 |  | Abgreifspindelzange |
| Art-Nr. | 78-2012 | | |

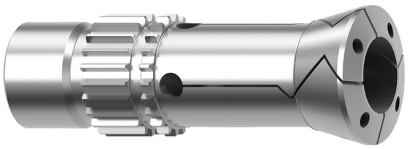
## 1.5.5 Spannzangen für Tornos MultiSwiss



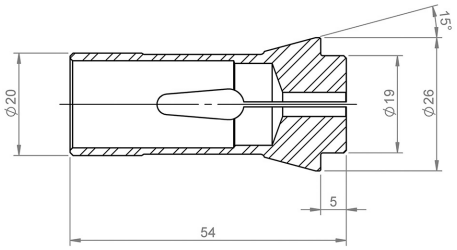
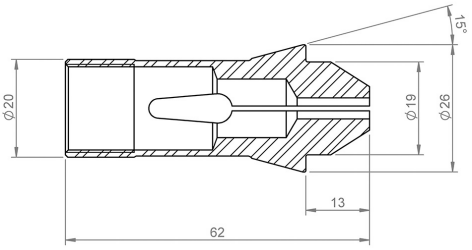
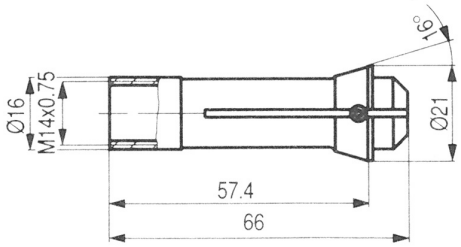
Spindelzange aus Stahl



Spindelzange mit HM-Bohrung



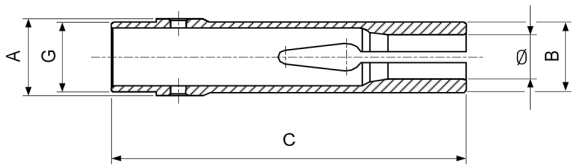
Spindelzange mit Z-Schlitzen

| | | | | |
|---|---|---|---|---|
| Typ:<br>Art-Nr. | F20/201<br>76-201 | kurze Nase |  | Abgreif-Spindelzange |
| Typ:<br>Art-Nr. | F20/2016<br>76-2016 | lange Nase |  | Abgreif-Spindel-<br>Schnabelzange |
| Typ:<br>Art-Nr. | F16<br>76-830 | |  | Vorschubzange |

# 1.6 Original Schaublin Spannzangen

## 1.6.1 Vorschubzangen Typ A



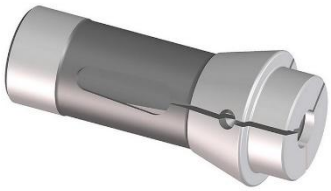


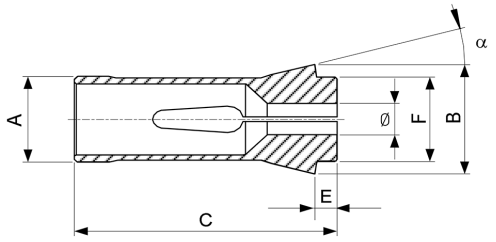

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Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage
13) Vorschubzangenkörper auf Anfrage
26) auf Anfrage

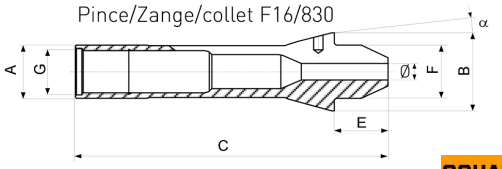
| Typ | A | B | C | G | Ø von - bis | 6-Kt | 4-Kt |
|---|---|---|---|---|---|---|---|
| A17.9 | | | | | | | |
| 71-335 | 17.90 | 17.50 | 70.00 | M16x0.75 | 1.50-14.00 | 2.00-12.00 | |
| 13) 71-213 | 17.90 | 17.50 | 70.00 | M16x0.75 | | | |
| A22.8 | | | | | | | |
| 71-1922 | 22.80 | 20.50 | 98.00 | M20x0.75 | 2.50-17.00 | 3.00-14.00 | |
| 13) 71-2011 | 22.80 | 20.50 | 98.00 | M20x0.75 | | | |
| A25 | | | | | | | |
| 71-2018 | 25.00 | 25.00 | 90.00 | M24x1.00 | 3.00-20.00 | 3.00-17.00 | |
| A27.7 | | | | | | | |
| 71-2000 | 27.70 | 25.30 | 116.00 | M25x1.00 | 2.00-21.00 | 2.00-18.20 | 2.00-14.90 |
| A35 | | | | | | | |
| 26) 71-2019 | 35.00 | 33.00 | 118.00 | M33x1.50 | 3.00-26.00 | 3.00-23.00 | |

## 1.6.2 Druckspannzangen Typ F






Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage
26) auf Anfrage




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Dichtgummis zu den Spannzangen finden Sie in Kapitel 1.6.24.2

| Typ | A | B | C | E | F | G | α | Ø von - bis | 6-Kt | 4-Kt |
|---|---|---|---|---|---|---|---|---|---|---|
| F4.5 | | | | | | | | | | |
| 76-76 | 4.50 | 6.75 | 17.25 | 1.80 | 4.50 | - | 15° | 0.30-4.00 | | |
| F6 | | | | | | | | | | |
| 76-599 | 6.00 | 10.00 | 30.00 | 3.00 | 6.00 | - | 15° | 0.30-4.50 | | |
| F7 | | | | | | | | | | |
| 76-66 | 7.00 | 10.70 | 26.00 | 2.90 | 7.00 | - | 15° | 0.30-5.00 | | |
| 76-206 | 7.00 | 10.50 | 26.00 | 3.00 | 7.00 | - | 15° | 0.30-5.50 | | |
| F8 | | | | | | | | | | |
| 76-577 | 8.00 | 12.00 | 42.00 | 4.50 | 8.00 | - | 16° | 0.30-6.35 | | |
| 76-1844 | 8.00 | 11.00 | 19.00 | 2.00 | 8.00 | - | 15° | 0.30-6.50 | | |
| F10 | | | | | | | | | | |
| 76-86 | 10.00 | 15.50 | 47.50 | 5.50 | 10.00 | - | 20° | 0.30-8.00 | 1.00-6.50 | 1.00-5.00 |
| 76-1178 | 10.00 | 16.00 | 46.00 | 4.00 | 10.00 | - | 20° | 0.30-7.00 | | |
| F12 | | | | | | | | | | |
| 76-78 | 12.00 | 18.10 | 44.50 | 4.30 | 12.00 | - | 15° | 0.30-10.00 | 1.00-8.50 | 1.00-7.00 |
| 76-578 | 12.00 | 18.00 | 64.00 | 6.00 | 12.00 | - | 16° | 0.30-10.00 | | |
| F13 | | | | | | | | | | |
| 76-357 | 13.00 | 19.00 | 64.00 | 6.00 | 13.00 | - | 16° | 0.30-10.00 | 1.00-8.00 | 1.00-7.00 |
| F14 | | | | | | | | | | |
| 76-98 | 14.00 | 18.00 | 46.00 | 4.00 | 14.00 | - | 13° | 0.30-11.20 | 1.00-9.70 | 1.00-8.00 |
| F15 | | | | | | | | | | |
| 76-358 | 15.00 | 22.00 | 47.00 | 5.00 | 15.00 | - | 20° | 0.30-11.11 | 1.00-9.52 | 1.00-7.54 |
| 76-580 | 15.00 | 21.00 | 64.00 | 6.00 | 15.00 | - | 16° | 0.30-12.70 | 1.00-11.00 | 1.00-9.00 |
| F16 | | | | | | | | | | |
| 76-104 | 16.00 | 22.00 | 55.00 | 5.00 | 16.00 | - | 15° | 0.30-13.00 | 1.00-11.30 | 1.00-9.20 |
| 76-1076 | 16.00 | 21.00 | 64.00 | 6.00 | 16.00 | - | 16° | 0.30-13.00 | 1.00-11.30 | 1.00-9.20 |
| 76-830 | 16.00 | 21.00 | 66.00 | 8.00 | 16.00 | M14x0.75 | 16° | 0.30-13.00 | 1.00-11.30 | 1.00-9.20 |
| F20 | | | | | | | | | | |
| 76-87 | 20.00 | 28.00 | 67.00 | 7.00 | 21.00 | - | 16° | 0.50-17.00 | 1.00-14.00 | 1.00-11.50 |
| 76-201 | 20.00 | 26.00 | 54.00 | 5.00 | 19.00 | - | 15° | 0.50-16.50 | 1.00-14.00 | 1.00-12.00 |
| F22 | | | | | | | | | | |
| 76-71 | 22.00 | 30.00 | 55.00 | 6.00 | 21.00 | - | 15° | 0.50-17.00 | 1.00-14.50 | 1.00-12.00 |
| F25 | | | | | | | | | | |
| 76-64 | 25.00 | 35.00 | 77.00 | 10.00 | 27.00 | - | 16° | 0.50-21.00 | 1.00-18.00 | 1.00-15.00 |
| F26 | | | | | | | | | | |
| 26) 76-90 | 26.00 | 32.00 | 67.00 | 7.00 | 27.50 | - | 13° | | | |
| F27 | | | | | | | | | | |
| 76-22 | 27.00 | 38.00 | 72.70 | 8.00 | 30.00 | - | 15° | 0.50-23.00 | 1.00-20.00 | 1.00-16.00 |
| F28 | | | | | | | | | | |
| 76-93 | 28.00 | 38.00 | 70.00 | 7.00 | 28.00 | - | 15° | 0.50-23.00 | 1.00-20.00 | 1.00-16.00 |
| F30 | | | | | | | | | | |
| 76-63 | 30.00 | 42.00 | 80.00 | 10.00 | 34.00 | - | 16° | 0.50-26.00 | 1.00-22.22 | 1.00-18.00 |

| Typ | A | B | C | E | F | G | α | Ø von - bis | 6-Kt | 4-Kt |
|---|---|---|---|---|---|---|---|---|---|---|
| 76-101 | 30.00 | 38.00 | 65.00 | 6.00 | 32.00 | - | 15° | 0.50-26.00 | 1.00-22.50 | 1.00-18.00 |
| F32 | | | | | | | | | | |
| 76-221 | 32.00 | 45.00 | 75.00 | 8.00 | 34.00 | - | 15° | 1.00-27.00 | 2.00-23.00 | 2.00-19.00 |
| F35 | | | | | | | | | | |
| 76-94 | 35.00 | 48.00 | 80.00 | 8.00 | 38.00 | - | 15° | 1.00-30.00 | 2.00-26.00 | 2.00-21.00 |
| F37 | | | | | | | | | | |
| 76-740 | 37.00 | 47.00 | 92.00 | 10.00 | 40.00 | - | 16° | 1.00-32.00 | 2.00-27.70 | 2.00-22.60 |
| F38 | | | | | | | | | | |
| 76-72 | 38.08 | 49.00 | 107.50 | 9.00 | 38.00 | - | 15° | 1.00-32.00 | 2.00-27.00 | 2.00-22.00 |
| F42 | | | | | | | | | | |
| 76-99 | 42.00 | 55.00 | 94.00 | 9.00 | 42.00 | - | 15° | 1.00-36.00 | 2.00-31.00 | 2.00-25.00 |
| F48 | | | | | | | | | | |
| 76-81 | 48.00 | 60.00 | 94.00 | 9.00 | 50.00 | - | 15° | 1.00-42.00 | 2.00-36.00 | 2.00-30.00 |
| F66 | | | | | | | | | | |
| 76-359 | 66.00 | 84.00 | 110.00 | 9.00 | 73.00 | - | 15° | 3.97-60.00 | 3.97-52.00 | 3.97-42.00 |

## 1.6.3 Schnabelspannzangen Typ F

Die zugehörigen Zeichnungen finden Sie auf der nächsten Seite

Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

| Typ | A | B | C | E | F | G | α | Ø von - bis | 6-Kt | 4-Kt | Fig. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| F8 (577) | | | | | | | | | | | |
| 76-2024 | 8.00 | 12.00 | 47.50 | 10.00 | 8.00 | M6x0.50 | 16° | 0.30-4.50 | | | 2 |
| F10 (86) | | | | | | | | | | | |
| 76-2021 | 10.00 | 15.50 | 52.00 | 10.00 | 10.00 | M8x0.50 | 20° | 0.30-7.00 | 1.00-6.00 | 1.00-5.00 | 1 |
| F13 (357) | | | | | | | | | | | |
| 76-2014 | 13.00 | 19.00 | 70.00 | 12.00 | 13.00 | M11x0.75 | 16° | 0.30-8.00 | 1.00-7.00 | 1.00-5.70 | 1 |
| F15 (580) | | | | | | | | | | | |
| 76-2022 | 15.00 | 21.00 | 71.00 | 13.00 | 15.00 | - | 16° | 0.30-11.11 | 1.00-9.60 | 1.00-7.80 | 3 |
| F16 (1076) | | | | | | | | | | | |
| 76-2015 | 16.00 | 21.00 | 71.00 | 13.00 | 16.00 | M14x0.75 | 16° | 0.30-12.00 | 1.00-10.40 | 1.00-8.50 | 1 |
| F20 (201) | | | | | | | | | | | |
| 76-2016 | 20.00 | 26.00 | 62.00 | 13.00 | 19.00 | M18x1.00 | 15° | 0.50-15.00 | 1.00-13.00 | 1.00-10.60 | 4 |
| F20 (87 LN15) | | | | | | | | | | | |
| 76-2017 | 20.00 | 28.00 | 75.00 | 15.00 | 21.00 | - | 16° | 0.50-16.00 | 1.00-13.90 | 1.00-11.30 | 5 |
| F20 (87 LN 20) | | | | | | | | | | | |
| 76-2027 | 20.00 | 28.00 | 80.00 | 20.00 | 21.00 | - | 16° | 0.50-9.00 | | | 5 |
| F25 (64) | | | | | | | | | | | |
| 76-2018 | 25.00 | 35.00 | 85.00 | 18.00 | 27.00 | M22x1.00 | 16° | 0.50-20.00 | 1.00-17.00 | 1.00-14.00 | 6 |
| F27 (22) | | | | | | | | | | | |
| 76-2040 | 27.00 | 38.00 | 83.00 | 18.30 | 30.00 | - | 15° | 0.50-23.00 | 1.00-19.05 | 1.00-15.50 | 7 |
| F30 (101) | | | | | | | | | | | |
| 76-2019 | 30.00 | 38.00 | 79.00 | 20.00 | 32.00 | - | 15° | 0.50-25.40 | 1.00-22.00 | 1.00-18.00 | 3 |
| F35 (2010) | | | | | | | | | | | |
| 76-2013 | 35.00 | 43.00 | 90.00 | 27.00 | 34.00 | - | 15° | 2.00-27.70 | | | 7 |
| F38 (72) | | | | | | | | | | | |
| 76-2004 | 38.08 | 49.00 | 123.00 | 24.50 | 38.00 | - | 15° | 1.00-32.00 | 2.00-27.70 | 2.00-22.60 | 5 |
| F48 (81) | | | | | | | | | | | |
| 76-2006 | 48.00 | 60.00 | 113.00 | 28.00 | 50.00 | - | 15° | 2.00-42.00 | 2.00-36.00 | 2.00-29.50 | 5 |

# Schnabelspannzangen Typ F - Zeichnungen

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Fig. 1

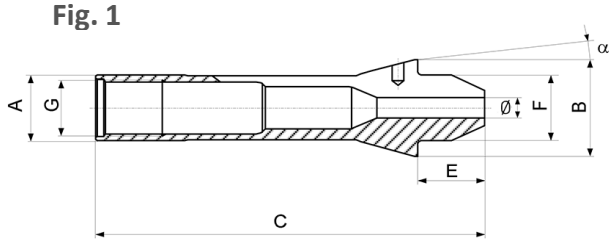



Fig. 2

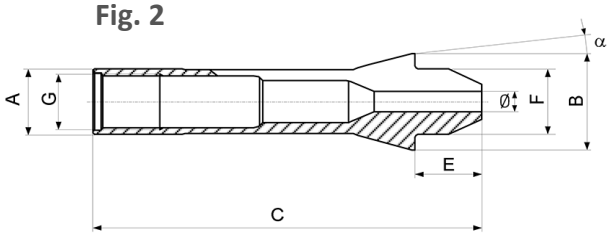



Fig. 3

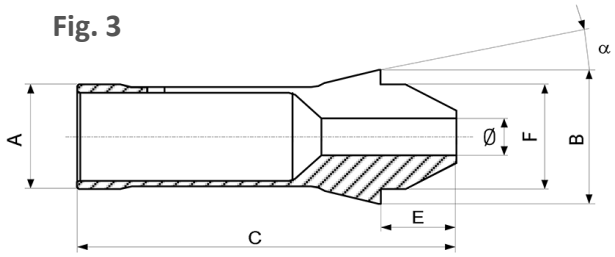



Fig. 4

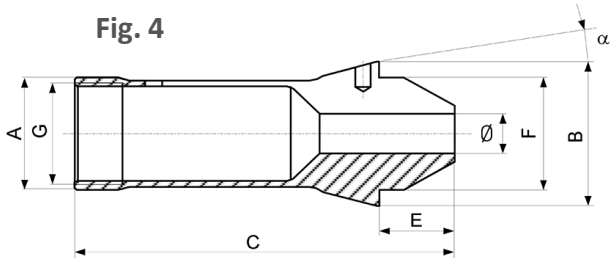



Fig. 5

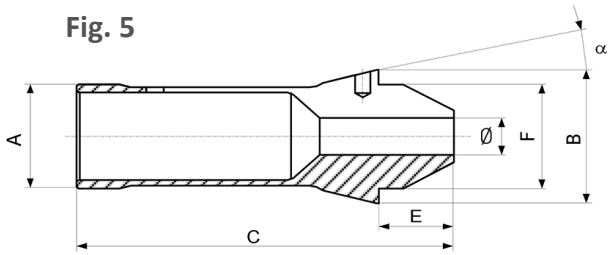



Fig. 6

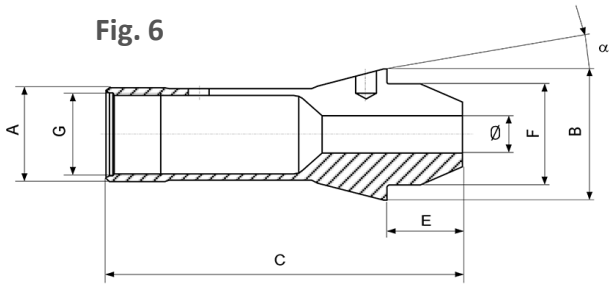
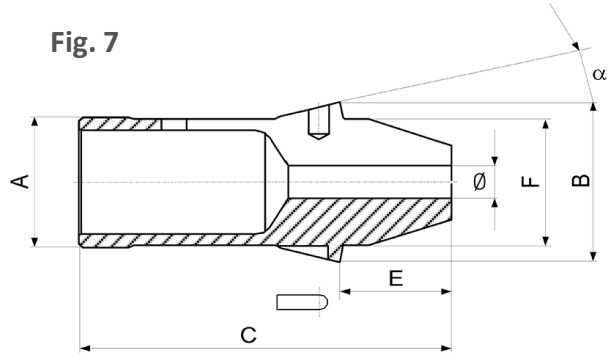
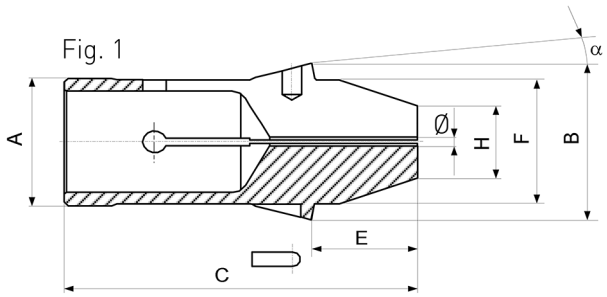


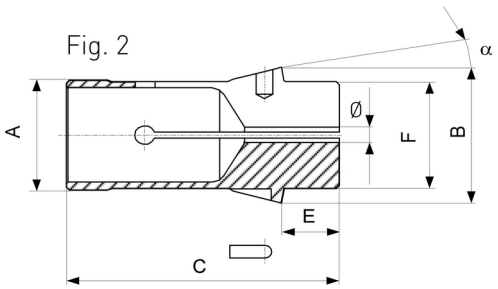

Fig. 7




Dichtgummis zu den Spannzangen finden Sie in Kapitel 1.6.24.2

# 1.6.4 Spannzangen mit Bohrung zum Erodieren



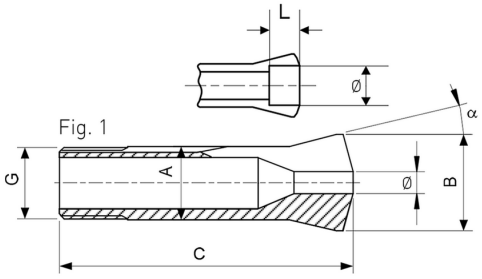

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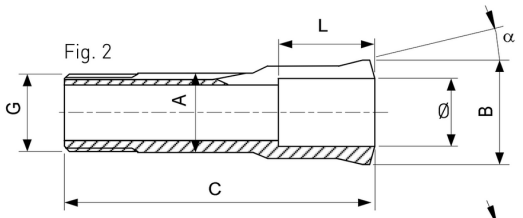
23) Bei Bestellung Schnabeldurchmesser "H" angeben

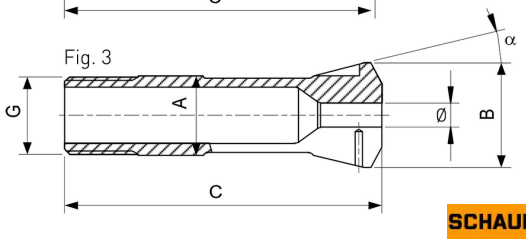
| Typ | A | B | C | E | F | H | α | Ø von - bis | Fig. |
|---|---|---|---|---|---|---|---|---|---|
| F35 | | | | | | | | | |
| 23) 76-2011 | 35.00 | 43.00 | 90.00 | 27.00 | 34.00 | 12.00 | 15° | 2.50 roh | 1 |
| 76-2011 | 35.00 | 43.00 | 90.00 | 27.00 | 34.00 | 20.00 | 15° | 2.50 roh | 1 |
| 76-2012 | 35.00 | 43.00 | 80.00 | 17.00 | 34.00 | - | 15° | 5.00 roh | 2 |

Dichtgummis zu den Spannzangen finden
Sie in Kapitel 1.6.24.2

## 1.6.5 Zugspannzangen Typ W




Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage
20) Keine Standardabmessung, siehe Artikel 80-107
21) Keine Standardabmessung, siehe Artikel 80-700

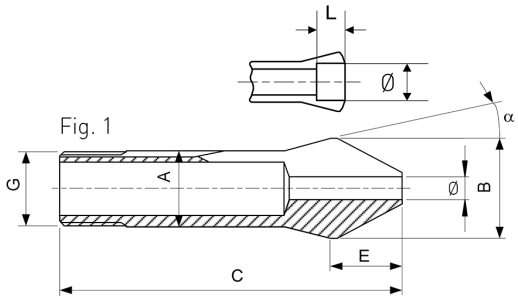
SCHAUBLIN

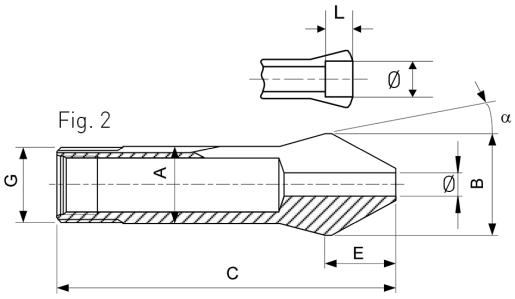
Dichtgummis zu den Spannzangen finden Sie in Kapitel 1.6.24.2

| Typ | A | B | C | G | α | Ø von - bis | L | Fig. |
|---|---|---|---|---|---|---|---|---|
| W10 | | | | | | | | |
| 80-1 | 10.00 | 14.00 | 43.60 | Ø9.83x0.833/45°/5° | 15° | 0.30-6.70 | - | 1 |
| | | | | | | 6.71-8.00 | 15.00 | 1 |
| | | | | | | 8.01-8.50 | 6.00 | 1 |
| | | | | | | 8.51-9.00 | 5.00 | 1 |
| | | | | | | 9.01-9.50 | 4.00 | 1 |
| | | | | | | 9.51-10.00 | 3.00 | 1 |
| W12 | | | | | | | | |
| 80-2 | 12.00 | 16.00 | 46.00 | Ø11.75x1.25/45°/5° | 15° | 0.30-8.00 | - | 1 |
| | | | | | | 8.01-10.00 | 17.00 | 1 |
| | | | | | | 10.01-10.50 | 6.00 | 1 |
| | | | | | | 10.51-11.00 | 5.00 | 1 |
| | | | | | | 11.01-11.50 | 4.00 | 1 |
| | | | | | | 11.51-12.00 | 3.00 | 1 |
| | | | | | | 12.01-12.50 | 2.00 | 1 |
| W15 | | | | | | | | |
| 80-3 | 15.0 | 20.20 | 58.30 | Ø14.75x1.25/45°/5° | 15° | 0.30-10.70 | - | 1 |
| | | | | | | 10.71-12.70 | 22.00 | 1 |
| | | | | | | 12.71-13.00 | 9.50 | 1 |
| | | | | | | 13.01-13.50 | 8.50 | 1 |
| | | | | | | 13.51-14.00 | 7.50 | 1 |
| | | | | | | 14.01-14.50 | 6.50 | 1 |
| | | | | | | 14.51-15.00 | 5.50 | 1 |
| | | | | | | 15.01-15.50 | 4.50 | 1 |
| | | | | | | 15.51-16.00 | 3.50 | 1 |
| W20 | | | | | | | | |
| 80-4 | 20.00 | 26.30 | 73.00 | Ø19.70x1.666/45°/5° | 15° | 0.30-14.50 | - | 1 |
| | | | | | | 14.51-16.00 | 28.00 | 1 |
| | | | | kein Standard | 15° | 16.01-16.50 | 13.50 | 1 |
| | | | | kein Standard | 15° | 16.51-17.00 | 13.00 | 1 |
| | | | | kein Standard | 15° | 17.01-17.50 | 12.20 | 1 |
| | | | | kein Standard | 15° | 17.51-18.00 | 11.50 | 1 |
| 20) 80-4 | 20.00 | 26.30 | 73.00 | Ø19.70x1.666/45°/5° | 15° | 18.01-18.50 | 10.70 | 1 |
| 20) | | | | kein Standard | | 18.51-19.00 | 10.00 | 1 |
| 20) | | | | kein Standard | | 19.01-19.50 | 8.70 | 1 |
| 20) | | | | kein Standard | | 19.51-20.00 | 7.50 | 1 |
| 80-4 | 20.00 | 26.30 | 73.00 | Ø19.70x1.666/45°/5° | 15° | 20.01-20.50 | 6.50 | 1 |
| | | | | | | 20.51-21.00 | 5.50 | 1 |
| | | | | | | 21.01-21.50 | 4.70 | 1 |
| | | | | | | 21.51-22.00 | 4.00 | 1 |
| | | | | | | 22.01-22.50 | 3.00 | 1 |
| | | | | | | 22.51-23.00 | 2.00 | 1 |
| 80-107 | 20.00 | 26.30 | 73.00 | Ø19.70x1.666/45°/5° | 15° | 16.01-20.00 | 24.00 | 2 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| W25 | | | | | | | | |
| 80-5 | 25.00 | 33.70 | 97.60 | Ø24.70x1.693/45°/5° | 15° | 0.30-19.05 | - | 1 |
| | | | | | | 19.06-21.00 | 35.00 | 1 |
| | | | | kein Standard | 15° | 21.01-21.50 | 16.50 | 1 |
| | | | | kein Standard | 15° | 21.51-22.00 | 16.00 | 1 |
| | | | | kein Standard | 15° | 22.01-23.00 | 15.50 | 1 |
| | | | | kein Standard | 15° | 23.01-23.50 | 15.00 | 1 |
| | | | | kein Standard | 15° | 23.51-24.00 | 14.50 | 1 |
| | | | | kein Standard | 15° | 24.01-24.50 | 13.50 | 1 |
| | | | | kein Standard | 15° | 24.51-25.00 | 12.50 | 1 |
| | | | | Ø24.70x1.693/45°/5° | 15° | 25.01-25.40 | 11.50 | 1 |
| | | | | | | 25.41-25.50 | 11.50 | 1 |
| | | | | | | 25.51-26.00 | 10.50 | 1 |
| | | | | | | 26.01-26.50 | 9.50 | 1 |
| | | | | | | 26.51-27.00 | 8.50 | 1 |
| | | | | | | 27.01-27.50 | 7.50 | 1 |
| | | | | | | 27.51-28.00 | 6.50 | 1 |
| | | | | | | 28.01-28.50 | 5.50 | 1 |
| | | | | | | 28.51-29.00 | 4.50 | 1 |
| 21) 80-700 | 25.00 | 33.70 | 97.60 | Ø24.70x1.693/45°/5° | 15° | 21.01-25.40 | 30.00 | 2 |
| 80-1923 | 25.00 | 35.00 | 94.00 | M25x1 | 16° | 0.50-17.00 | - | 3 |
| W31.75 | | | | | | | | |
| 80-842 | 31.75 | 37.40 | 87.00 | Ø31.40x1.27/60° | 10°3' | 0.50-25.19 | - | 1 |
| | | | | | | 25.20-27.99 | 40.00 | 1 |
| | | | | | | 28.00-28.99 | 10.00 | 1 |
| | | | | | | 29.00-29.99 | 7.00 | 1 |
| | | | | | | 30.00-31.00 | 4.00 | 1 |

## 1.6.6 Schnabelspannzangen Typ W




Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

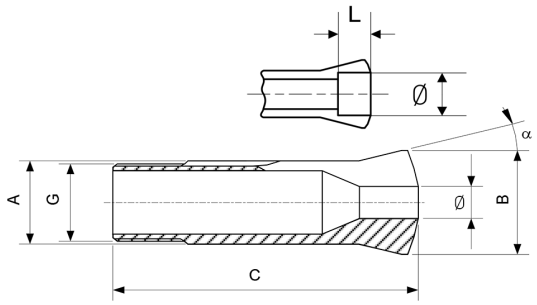
Dichtgummis zu den Spannzangen finden Sie in Kapitel 1.6.24.2

SCHAUBLIN

| Typ | A | B | C | E | G | α | Ø von - bis | L | Fig. |
|---|---|---|---|---|---|---|---|---|---|
| W12 | | | | | | | | | |
| 80-93108 | 12.00 | 16.00 | 52.00 | 8.80 | Ø11.75x1.25/45°/5° | 15° | 0.30-8.00 | - | 1 |
| | | | | | | | 8.01-10.00 | 24.00 | 1 |
| W15 | | | | | | | | | |
| 80-93285 | 15.00 | 20.20 | 67.00 | 12.00 | Ø14.75x1.25/45°/5° | 15° | 0.30-10.20 | - | 1 |
| | | | | | | | 10.21-12.70 | 32.00 | 1 |
| W20 | | | | | | | | | |
| 80-92744 | 20.00 | 26.30 | 84.50 | 15.50 | Ø19.70x1.666/45°/5° | 15° | 0.30-13.00 | - | 1 |
| | | | | | | | 13.01-16.00 | 41.00 | 1 |
| W25 | | | | | | | | | |
| 80-92872 | 25.00 | 33.70 | 112.20 | 19.70 | Ø24.70x1.693/45°/5° | 15° | 0.30-19.05 | - | 1 |
| | | | | | | | 19.06-21.00 | 50.00 | 1 |
| W31.75 | | | | | | | | | |
| 80-2007 | 31.75 | 37.40 | 108.70 | 25.40 | Ø31.40x1.27/60° | 10°3' | 0.30-25.19 | - | 2 |
| | | | | | | | 25.20-28.00 | 64.00 | 2 |

# 1.6.7 Zugspannzangen Typ B





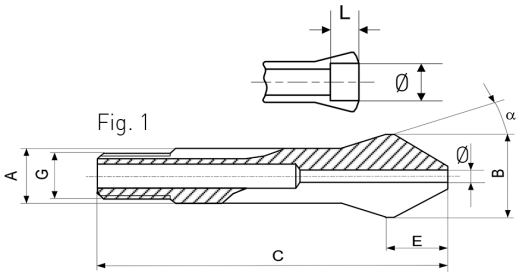

Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

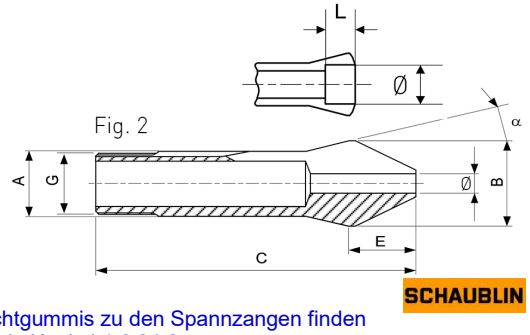
Dichtgummis zu den Spannzangen finden Sie in Kapitel 1.6.24.2

SCHAUBLIN

| Typ | A | B | C | G | α | Ø von - bis | L |
|---|---|---|---|---|---|---|---|
| B6 | | | | | | | |
| 72-128 | 6.00 | 10.50 | 31.30 | Ø5x0.706/55° | 20° | 0.30-3.00 | - |
| | | | | | | 3.01-4.50 | 12.00 |
| | | | | | | 4.51-5.00 | 4.50 |
| | | | | | | 5.01-5.50 | 4.00 |
| | | | | | | 5.51-6.00 | 3.50 |
| B8 | | | | | | | |
| 72-137 | 8.00 | 13.00 | 35.50 | Ø6.82x0.625/55° | 20° | 0.30-4.00 | - |
| | | | | | | 4.01-6.50 | 13.00 |
| | | | | | | 6.51-7.00 | 6.00 |
| | | | | | | 7.01-7.50 | 5.00 |
| | | | | | | 7.51-8.00 | 4.00 |
| | | | | | | 8.01-8.50 | 3.20 |
| | | | | | | 8.51-9.00 | 2.50 |
| | | | | | | 9.01-9.50 | 1.70 |
| | | | | | | 9.51-10.00 | 1.00 |
| B15 | | | | | | | |
| 72-139 | 15.00 | 21.00 | 55.00 | M13x1.00 | 20° | 0.30-9.50 | - |
| | | | | | | 9.51-12.50 | 20.00 |
| | | | | | | 12.51-13.00 | 8.50 |
| | | | | | | 13.01-13.50 | 7.70 |
| | | | | | | 13.51-14.00 | 7.00 |
| | | | | | | 14.01-14.50 | 6.50 |
| | | | | | | 14.51-15.00 | 6.00 |
| B32 | | | | | | | |
| 72-65 | 32.00 | 40.00 | 106.00 | Ø29.70x1.693/45°/5° | 15° | 0.30-24.00 | - |
| | | | | | | 24.01-28.00 | 44.00 |
| | | | | | | 28.01-30.00 | 12.00 |
| | | | | | | 30.01-32.00 | 8.00 |
| B45 | | | | | | | |
| 72-199 | 45.00 | 53.00 | 115.00 | M42x1.5 | 15° | 1.00-36.00 | - |
| | | | | | | 36.01-40.99 | 53.00 |
| | | | | | | 41.00-41.99 | 14.00 |
| | | | | | | 42.00-42.99 | 12.00 |
| | | | | | | 43.00-43.99 | 10.00 |
| | | | | | | 44.00-45.00 | 8.00 |

## 1.6.8 Schnabelspannzangen Typ B




SCHAUBLIN

Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

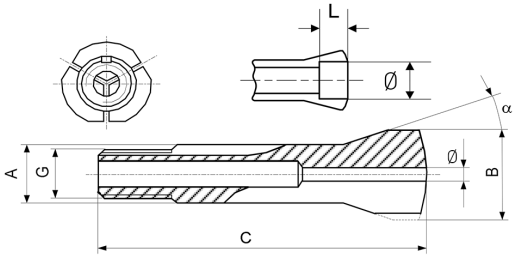
Dichtgummis zu den Spannzangen finden
Sie in Kapitel 1.6.24.2

| Typ | A | B | C | E | G | α | Ø von - bis | L | Fig. |
|---|---|---|---|---|---|---|---|---|---|
| B8 | | | | | | | | | |
| 72-95 | 8.00 | 13.00 | 40.50 | 7.00 | Ø6.82x0.625/55° | 20° | 0.30-3.30 | - | 1 |
| | | | | | | | 3.31-6.50 | 21.00 | 1 |
| B32 | | | | | | | | | |
| 72-2003 | 32.00 | 40.00 | 124.00 | 24.00 | Ø29.70x1.693/45°/5° | 15° | 0.30-24.00 | - | 2 |
| | | | | | | | 24.01-28.00 | 64.00 | 2 |

## 1.6.9 Schnabelzangen Typ B mit Spannflächen

Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage
26) = auf Anfrage

Dichtgummis zu den Spannzangen finden
Sie in Kapitel 1.6.24.2

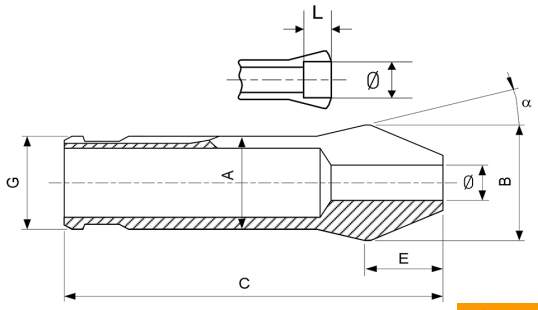



SCHAUBLIN

| Typ | A | B | C | G | α | Ø von - bis | L |
|---|---|---|---|---|---|---|---|
| B6 | | | | | | | |
| 26) 72-1897 | 6.00 | 9.00 | 31.30 | Ø5x0.706/55° | 20° | 0.30-3.00 | - |
| | | | | | | 3.01-4.50 | 12.00 |
| | | | | | | 4.51-5.00 | 4.50 |
| | | | | | | 5.01-5.50 | 4.00 |
| | | | | | | 5.51-6.00 | 3.50 |
| B8 | | | | | | | |
| 26) 72-1898 | 8.00 | 13.00 | 35.50 | Ø6.82x0.625/55° | 20° | 0.30-4.00 | - |
| | | | | | | 4.01-6.50 | 12.50 |
| | | | | | | 6.51-7.00 | 6.00 |
| | | | | | | 7.01-7.50 | 5.00 |
| | | | | | | 7.51-8.00 | 4.00 |

## 1.6.10 Zugspannzangen Typ BCR

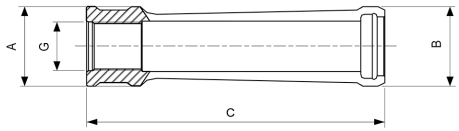
Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage
26) = auf Anfrage




SCHAUBLIN

| Typ | A | B | C | E | G | α | Ø von - bis | L |
|---|---|---|---|---|---|---|---|---|
| BCR32 | | | | | | | | |
| 72-93235 | 32.00 | 40.00 | 117.00 | 24.00 | 32.00 | 15° | 0.30-24.00 | - |
| | | | | | | | 24.01-28.00 | 64.00 |
| 26) 72-93416 | 32.00 | 40.00 | 117.00 | 24.00 | 32.00 | 15° | Morse DIN228-MK1 | - |
| 26) 72-93417 | 32.00 | 40.00 | 117.00 | 24.00 | 32.00 | 15° | Morse DIN228-MK2 | - |
| 26) 72-93418 | 32.00 | 40.00 | 117.00 | 24.00 | 32.00 | 15° | Morse DIN228-MK3 | - |

## 1.6.11 Zugspannzange für BCR

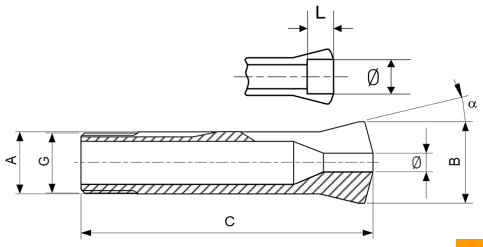



SCHAUBLIN

| Typ | A | B | C | G |
|---|---|---|---|---|
| D40 | | | | |
| 74-60039 | 40.00 | 40.00 | 133.00 | M24x1.5 |

# 1.6.12 Zugspannzangen Typ L






SCHAUBLIN

Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

| Typ | A | B | C | G | α | Ø von - bis | L |
|---|---|---|---|---|---|---|---|
| L20 | | | | | | | |
| 77-122 | 20.00 | 28.00 | 122.00 | Ø19.70x2/45°/5° | 17°30' | 0.30-13.00 | |
| | | | | | | 13.01-17.50 | 59.00 |
| | | | | | | 17.51-18.00 | 12.00 |
| | | | | | | 18.01-18.50 | 11.00 |
| | | | | | | 18.51-19.00 | 10.00 |
| | | | | | | 19.01-19.50 | 9.00 |
| | | | | | | 19.51-20.00 | 8.00 |
| | | | | | | 20.01-20.50 | 7.00 |
| | | | | | | 20.51-21.00 | 6.50 |
| | | | | | | 21.01-21.50 | 5.50 |
| | | | | | | 21.51-22.00 | 4.50 |

# 1.6.13 Zugspannzangen Typ HW für Hydromat Maschinen

Fig. 1

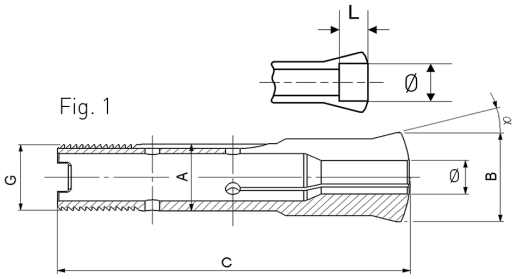
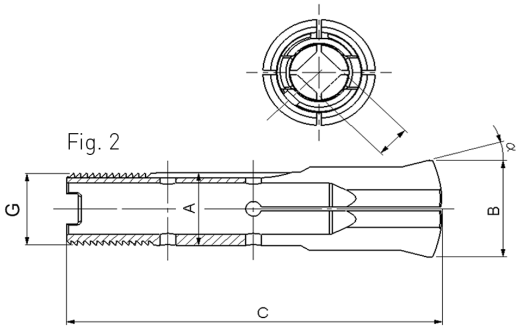
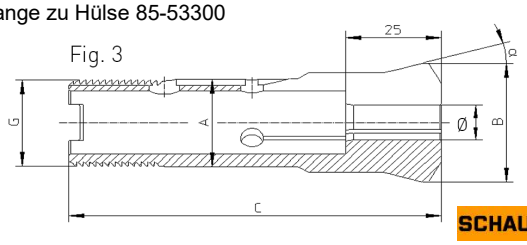



Fig. 2




Spannzange zu Hülse 85-53300

Fig. 3

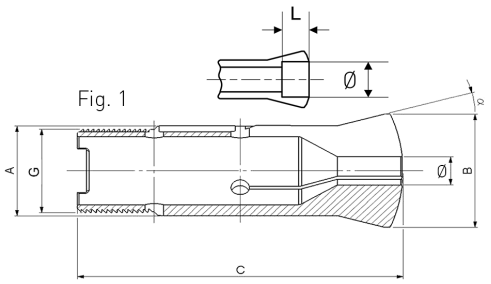


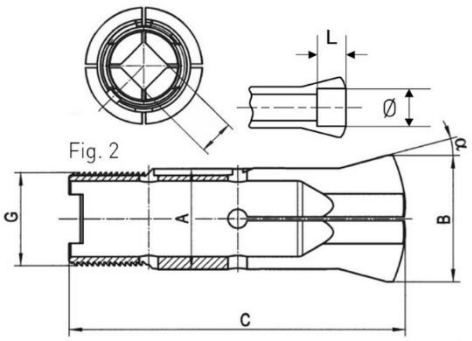

Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

SCHAUBLIN

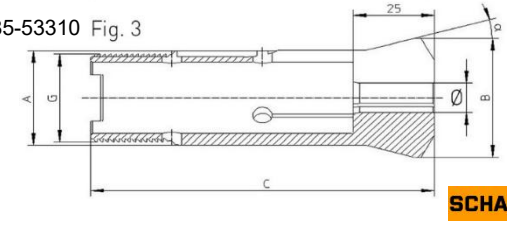
| Typ | A | B | C | G | α | Ø von - bis | 6-Kt | 4-Kt | L | Fig. |
|---|---|---|---|---|---|---|---|---|---|---|
| HW20 | | | | | | | | | | |
| 80-2030 | 20.00 | 26.30 | 96.50 | Ø19.7x1.666/45°/5° | 15° | 0.30-13.79 | 1.00-11.79 | - | - | 1 |
| | | | | | | 13.80-20.00 | 11.80-17.00 | | 31.00 | 1 |
| 80-2040 | 20.00 | 26.30 | 96.50 | Ø19.7x1.666/45°/5° | 15° | - | - | 1.00-9.79 | - | 2 |
| | | | | | | | | 9.80-14.00 | 31.00 | 2 |
| HW25 | | | | | | | | | | |
| 80-2010 | 25.00 | 33.70 | 97.60 | Ø24.7x1.693/45°/5° | 15° | 5.00-15.00 | | - | - | 3 |
| 80-2033 | 25.00 | 33.70 | 97.60 | Ø24.7x1.693/45°/5° | 15° | 0.30-17.79 | 1.00-15.29 | - | - | 1 |
| | | | | | | 17.80-25.40 | 15.30-22.00 | | 31.00 | 1 |
| 80-2043 | 25.00 | 33.70 | 97.60 | Ø24.7x1.693/45°/5° | 15° | - | - | 3.00-12.59 | - | 2 |
| | | | | | | | | 12.60-19.05 | 31.00 | 2 |

## 1.6.14 Zugspannzangen Typ HB32 für Hydromat Maschinen




Spannzange zu Hülse 85-53310 Fig. 3

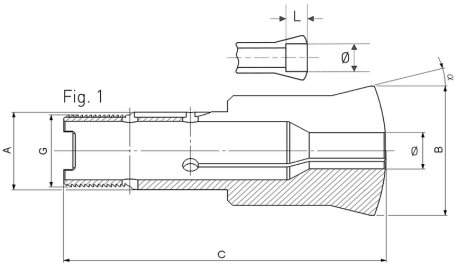


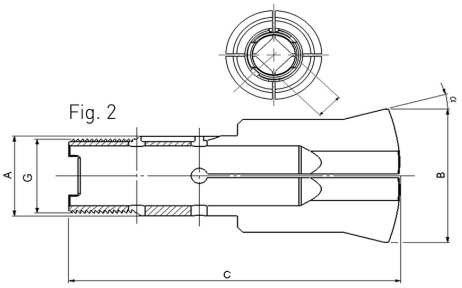

Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

SCHAUBLIN

| Typ | A | B | C | G | α | Ø von - bis | 6-Kt | 4-Kt | L | Fig. |
|---|---|---|---|---|---|---|---|---|---|---|
| HB32 | | | | | | | | | | |
| 72-2010 | 32.00 | 40.00 | 106.00 | Ø29.7x1.693/45°5° | 15° | 6.00-20.00 | - | - | - | 3 |
| 72-2030 | 32.00 | 40.00 | 106.00 | Ø29.7x1.693/45°5° | 15° | 3.00-23.79 | 3.00-20.59 | - | - | 1 |
| | | | | | | 23.80-27.99 | 20.60-23.99 | | 44.00 | 1 |
| | | | | | | 28.00-29.99 | 24.00-25.49 | | 12.00 | 1 |
| | | | | | | 30.00-32.00 | 25.50-27.00 | | 8.00 | 1 |
| 72-2040 | 32.00 | 40.00 | 106.00 | Ø29.7x1.693/45°5° | 15° | - | - | 3.00-16.99 | - | 2 |
| | | | | | | | | 17.00-19.79 | 44.00 | 2 |
| | | | | | | | | 19.80-20.99 | 12.00 | 2 |
| | | | | | | | | 21.00-22.60 | 8.00 | 2 |

## 1.6.15 Zugspannzangen Typ HB32/45 für Hydromat Maschinen




Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

SCHAUBLIN

| Typ | A | B | C | G | α | Ø von - bis | 6-Kt | 4-Kt | L | Fig. |
|---|---|---|---|---|---|---|---|---|---|---|
| HB32/45 | | | | | | | | | | |
| 72-2033 | 32.00 | 53.00 | 122.00 | Ø29.7x1.693/45°/5° | 15° | 3.00-23.79 | 3.00-20.59 | - | - | 1 |
| | | | | | | 23.80-40.99 | 20.60-34.99 | | 50.00 | 1 |
| | | | | | | 41.00-41.99 | 35.00-35.99 | | 14.00 | 1 |
| | | | | | | 42.00-42.99 | 36.00-36.99 | | 12.00 | 1 |
| | | | | | | 43.00-43.99 | 37.00-37.99 | | 10.00 | 1 |
| | | | | | | 44.00-45.00 | 38.00-38.50 | | 8.00 | 1 |
| 72-2043 | 32.00 | 53.00 | 122.00 | Ø29.7x1.693/45°/5° | 15° | - | - | 3.00-16.79 | - | 2 |
| | | | | | | | | 16.80-28.99 | 50.00 | 2 |
| | | | | | | | | 29.00-29.99 | 12.00 | 2 |
| | | | | | | | | 30.00-30.99 | 10.00 | 2 |
| | | | | | | | | 31.00-31.75 | 8.0 | 2 |

# 1.6.16 Zugspannzangen Typ HB45 für Hydromat Maschinen

Fig. 1

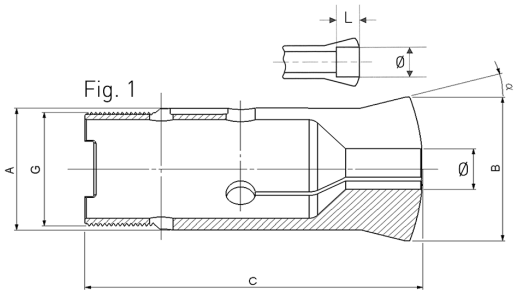
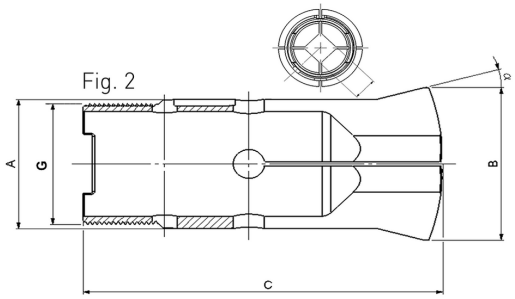



Fig. 2




SCHAUBLIN

Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

| Typ | A | B | C | G | α | Ø von - bis | 6-Kt | 4-Kt | L | Fig. |
|---|---|---|---|---|---|---|---|---|---|---|
| HB45 | | | | | | | | | | |
| 72-2036 | 45.00 | 53.00 | 115.00 | M42x1.5 | 15° | 3.00-36.00 | 3.00-31.00 | | - | 1 |
| | | | | | | 36.01-40.99 | 31.01-34.99 | | 53.00 | 1 |
| | | | | | | 41.00-41.99 | 35.00-35.99 | | 14.00 | 1 |
| | | | | | | 42.00-42.99 | 36.00-36.99 | | 12.00 | 1 |
| | | | | | | 43.00-43.99 | 37.00-37.99 | | 10.00 | 1 |
| | | | | | | 44.00-45.00 | 38.00-38.50 | | 8.00 | 1 |
| 72-2046 | 45.00 | 53.00 | 115.00 | M42x1.5 | 15° | | | 3.00-25.40 | - | 2 |
| | | | | | | | | 25.41-28.99 | 53.00 | 2 |
| | | | | | | | | 29.00-29.99 | 12.00 | 2 |
| | | | | | | | | 30.00-30.99 | 10.00 | 2 |
| | | | | | | | | 31.00-31.75 | 8.00 | 2 |

# 1.6.17 Zugspannzangen Typ P

Fig. 1

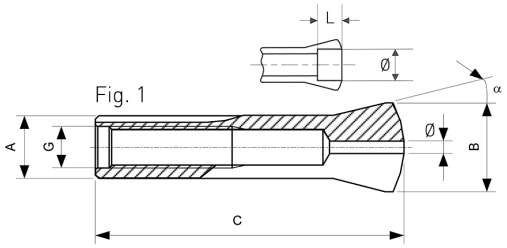
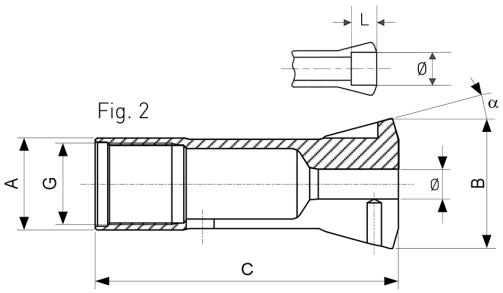


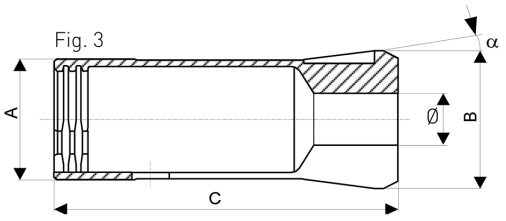

Fig. 2




Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

Dichtgummis zu den Spannzangen finden
Sie in Kapitel 1.6.24.2

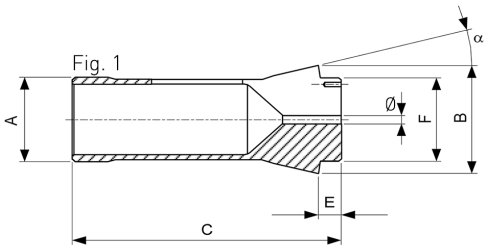
Fig. 3

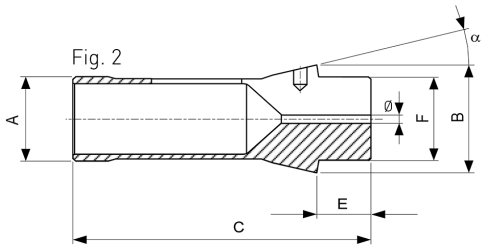



SCHAUBLIN

| Typ | A | B | C | G | α | Ø von - bis | L | Fig. |
|---|---|---|---|---|---|---|---|---|
| P4.5 | | | | | | | | |
| 78-153 | 4.50 | 6.75 | 22.90 | M3.35 | 15° | 0.30-2.50 | - | 1 |
| | | | | | | 2.51-3.00 | 8.50 | 1 |
| | | | | | | 3.01-4.00 | 4.00 | 1 |
| | | | | | | 4.01-4.50 | 3.00 | 1 |
| P5 | | | | | | | | |
| 78-154 | 5.00 | 7.00 | 22.90 | M3.50 | 15° | 0.30-2.70 | - | 1 |
| | | | | | | 2.71-3.00 | 8.50 | 1 |
| | | | | | | 3.01-3.50 | 12.00 | 1 |
| | | | | | | 3.51-4.00 | 4.00 | 1 |
| | | | | | | 4.01-4.50 | 3.00 | 1 |
| | | | | | | 4..51-5.00 | 2.00 | 1 |
| P6 | | | | | | | | |
| 78-150 | 6.00 | 8.50 | 27.20 | M4.00 | 15° | 0.30-3.20 | - | 1 |
| | | | | | | 3.21-4.50 | 11.50 | 1 |
| | | | | | | 4.51-5.00 | 4.50 | 1 |
| 78-155 | 6.00 | 8.50 | 24.10 | M4.00 | 20° | 0.30-3.20 | - | 1 |
| | | | | | | 3.21-4.50 | 8.50 | 1 |
| | | | | | | 4.51-5.00 | 3.50 | 1 |
| P9 | | | | | | | | |
| 78-157 | 9.00 | 13.20 | 39.30 | M6.00 | 15° | 0.30-4.70 | - | 1 |
| | | | | | | 4.71-7.00 | 12.00 | 1 |
| | | | | | | 7.01-8.00 | 7.00 | 1 |
| | | | | | | 8.01-9.00 | 5.00 | 1 |
| P10 | | | | | | | | |
| 78-228 | 10.00 | 14.00 | 39.00 | M7.00 | 15° | 0.30-5.70 | - | 1 |
| | | | | | | 5.71-8.00 | 21.50 | 1 |
| | | | | | | 8.01-8.50 | 6.00 | 1 |
| | | | | | | 8.51-9.00 | 5.00 | 1 |
| | | | | | | 9.01-9.50 | 4.00 | 1 |
| | | | | | | 9.51-10.00 | 3.00 | 1 |
| P25 | | | | | | | | |
| 78-334 | 25.00 | 35.00 | 75.00 | M22x1.0 | 16° | 0.50-18.26 | - | 2 |
| PR28 | | | | | | | | |
| 78-2013 | 28.00 | 32.00 | 73.00 | - | 8° | 2.00-24.50 | - | 3 |
| PR35.5 | | | | | | | | |
| 78-2012 | 35.50 | 40.00 | 80.00 | - | 8° | 2.00-30.00 | - | 3 |
| P36 | | | | | | | | |
| 78-2007 | 36.00 | 45.00 | 107.00 | M33x1.25 | 16° | 2.00-21.00 | - | 2 |

# 1.6.18 Notfallspannzangen Typ F



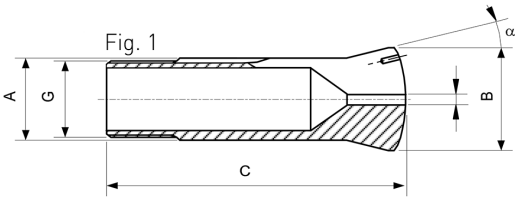



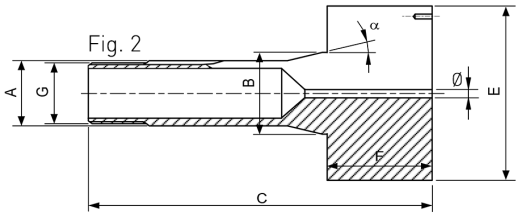

SCHAUBLIN

1) auf Anfrage

| Typ | A | B | C | E | F | α | D | Fig. |
|---|---|---|---|---|---|---|---|---|
| F13 | | | | | | | | |
| 76-53002 | 13.00 | 19.00 | 70.00 | 12.00 | 13.00 | 16° | 2.00 | 2 |
| F16 (104) | | | | | | | | |
| 76-52438 | 16.00 | 22.00 | 55.00 | 5.00 | 16.00 | 15° | 2.00 | 1 |
| F20 (201) | | | | | | | | |
| 76-53003 | 20.00 | 26.00 | 64.00 | 15.00 | 19.00 | 15° | 2.50 | 2 |
| F25 | | | | | | | | |
| 76-53004 | 25.00 | 35.00 | 85.00 | 18.00 | 27.00 | 16° | 3.00 | 2 |
| F27 | | | | | | | | |
| 76-52353 | 27.00 | 38.00 | 72.70 | 8.00 | 30.00 | 15° | 3.00 | 1 |
| F30 | | | | | | | | |
| 76-53005 | 30.00 | 38.00 | 79.00 | 20.00 | 32.00 | 15° | 3.00 | 2 |
| F32 | | | | | | | | |
| 76-52639 | 32.00 | 45.00 | 75.00 | 8.00 | 34.00 | 15° | 3.00 | 1 |
| F35 | | | | | | | | |
| 76-52636 | 35.00 | 48.00 | 80.00 | 8.00 | 38.00 | 15° | 3.00 | 1 |
| F37 | | | | | | | | |
| 76-53006 | 37.00 | 47.00 | 102.00 | 20.00 | 40.00 | 16° | 3.00 | 2 |
| F38 | | | | | | | | |
| 76-52270 | 38.00 | 49.00 | 107.50 | 9.00 | 38.00 | 15° | 3.00 | 1 |
| F48 | | | | | | | | |
| 76-52579 | 48.00 | 60.00 | 94.00 | 9.00 | 50.00 | 15° | 3.00 | 1 |
| F64 | | | | | | | | |
| 1) 76-52480 | 64.00 | 78.70 | 124.00 | 11.00 | 66.00 | 15° | 5.00 | 1 |
| F66 | | | | | | | | |
| 76-53000 | 66.00 | 84.00 | 110.00 | 9.00 | 73.00 | 15° | 5.00 | 1 |

# 1.6.19 Notfallspannzangen Typ W, B




14) Ausführung in Messing
26) auf Anfrage

SCHAUBLIN

| Typ | A | B | C | Ø | E | F | G | α | Fig. |
|---|---|---|---|---|---|---|---|---|---|
| W12 | | | | | | | | | |
| 80-52200 | 12.00 | 16.00 | 45.60 | 1.50 | - | - | Ø11.75x1.25/45/5 | 15° | 1 |
| 14) 80-50315 | 12.00 | 16.00 | 45.60 | 1.50 | - | - | Ø11.75x1.25/45/5 | 15° | 1 |
| W20 | | | | | | | | | |
| 80-50300 | 20.00 | 26.30 | 73.00 | 2.00 | - | - | Ø19.70x1.666/45°/5° | 15° | 1 |
| 14) 80-50314 | 20.00 | 26.30 | 73.00 | 2.00 | - | - | Ø19.70x1.666/45°/5° | 15° | 1 |
| 80-52365 | 20.00 | 26.30 | 105.60 | 6.00 | 47.00 | 35.00 | Ø19.70x1.666/45°/5° | 15° | 2 |
| W25 | | | | | | | | | |
| 80-50294 | 25.00 | 33.70 | 97.60 | 2.00 | - | - | Ø24.70x1.693/45°/5° | 15° | 1 |
| 14) 80-50344 | 25.00 | 33.70 | 97.60 | 2.00 | - | - | Ø24.70x1.693/45°/5° | 15° | 1 |
| 26) 80-53004 | 25.00 | 33.70 | 129.00 | 6.00 | 47.00 | 35.00 | Ø24.70x1.693/45°/5° | 15° | 2 |
| W31.75 | | | | | | | | | |
| 80-52531 | 31.75 | 37.40 | 87.00 | 2.00 | - | - | Ø31.4x1.27/60° | 10°3' | 1 |
| 14) 26) 80-53000 | 31.75 | 37.40 | 87.00 | 2.00 | - | - | Ø31.4x1.27/60° | 10°3' | 1 |
| B6 | | | | | | | | | |
| 72-53005 | 6.00 | 10.50 | 31.30 | 1.00 | - | - | Ø5x0.706/55° | 20° | 1 |
| B8 | | | | | | | | | |
| 72-53000 | 8.00 | 13.00 | 35.50 | 1.20 | - | - | Ø6.82x0.625/55° | 20° | 1 |
| B32 | | | | | | | | | |
| 72-50615 | 32.00 | 40.00 | 106.00 | 2.00 | - | - | Ø29.7x1.693/45°/5° | 15° | 1 |
| 72-52525 | 32.00 | 40.00 | 137.00 | 6.00 | 60.00 | 35.00 | Ø29.7x1.693/45°/5° | 15° | 2 |
| 14) 72-52290 | 32.00 | 40.00 | 106.00 | 2.00 | - | - | Ø29.7x1.693/45°/5° | 15° | 1 |
| B45 | | | | | | | | | |
| 72-53001 | 45.00 | 53.00 | 115.00 | 3.00 | - | - | M42x1.5 | 15° | 1 |

## 1.6.20 Geschliffene vorgearbeitete Einsätze Typ W

Fig. 1

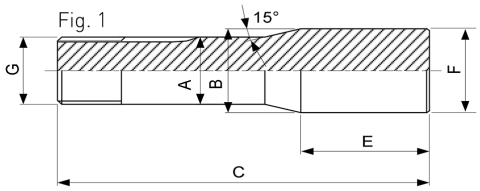
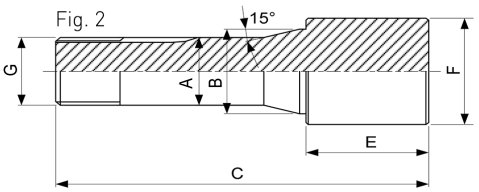



Fig. 2




SCHAUBLIN

| Typ | A | B | C | E | F | G | Fig. |
|---|---|---|---|---|---|---|---|
| W10 | | | | | | | |
| 83-50001 | 10.00 | 14.00 | 82.50 | 40.00 | 20.00 | Ø9.83x0.833/45°/5° | 2 |
| | | | | | 30.00 | | 2 |
| W12 | | | | | | | |
| 83-50002 | 12.00 | 16.20 | 84.30 | 40.00 | 16.20 | Ø11.75x1.25/45°/5° | 1 |
| 83-50003 | 12.00 | 16.00 | 84.30 | 40.00 | 20.00 | Ø11.75x1.25/45°/5° | 2 |
| | | | | | 30.00 | | 2 |
| | | | | | 40.00 | | 2 |
| W15 | | | | | | | |
| 83-50005 | 15.00 | 20.20 | 106.30 | 50.00 | 30.00 | Ø14.75x1.25/45°/5° | 2 |
| W20 | | | | | | | |
| 83-50006 | 20.00 | 26.50 | 91.00 | 20.00 | 26.50 | Ø19.7x1.666/45°/5° | 1 |
| | | | 120.60 | 50.00 | | | 1 |
| 83-50007 | 20.00 | 26.30 | 120.60 | 50.00 | 30.00 | Ø19.7x1.666/45°/5° | 2 |
| | | | 170.60 | 100.00 | 30.00 | | 2 |
| | | | 120.60 | 50.00 | 40.00 | | 2 |
| | | | 120.60 | 50.00 | 50.00 | | 2 |
| | | | 120.60 | 50.00 | 60.00 | | 2 |
| | | | 170.60 | 100.00 | 60.00 | | 2 |
| | | | 120.60 | 50.00 | 80.00 | | 2 |
| W25 | | | | | | | |
| 83-50008 | 25.00 | 33.90 | 144.30 | 50.00 | 33.90 | Ø19.7x1.666/45°/5° | 1 |
| 83-50009 | 25.00 | 33.70 | 144.30 | 50.00 | 50.00 | Ø24.7x1.693/45°/5 | 2 |
| | | | 144.30 | 50.00 | 60.00 | | 2 |
| | | | 194.30 | 100.00 | 80.00 | | 2 |

## 1.6.21 Geschliffene vorgearbeitete Einsätze Typ B

Fig. 1

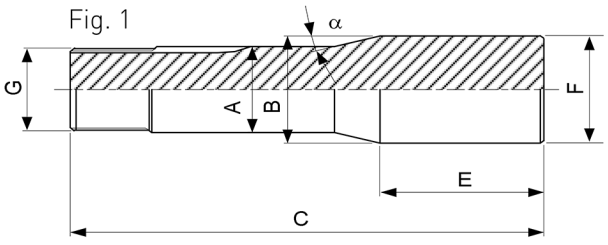
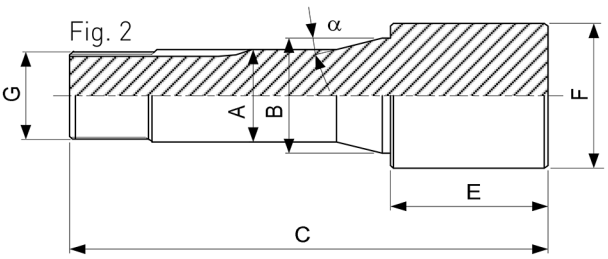



Fig. 2

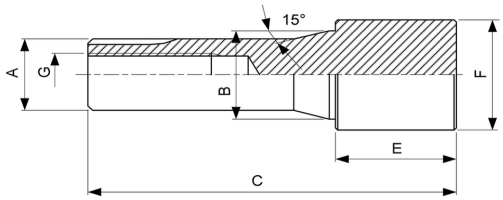



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| Typ | A | B | C | E | F | G | α | Fig. |
|---|---|---|---|---|---|---|---|---|
| B8 | | | | | | | | |
| 83-10004 | 8.00 | 13.20 | 73.80 | 40.00 | 13.20 | Ø6.82x0.625/55° | 20° | 1 |
| 83-10005 | 8.00 | 13.00 | 74.60 | 40.00 | 20.00 | Ø6.82x0.625/55° | 20° | 2 |
| | | | | | 30.00 | | | 2 |
| | | | | | 40.00 | | | 2 |
| B32 | | | | | | | | |
| 83-10001 | 32.00 | 40.00 | 152.00 | 50.00 | 50.00 | Ø29.7x1.693/45°/5° | 15° | 2 |
| | | | 202.00 | 100.00 | 80.00 | | | 2 |

## 1.6.22 Geschliffene vorgearbeitete Einsätze Typ P



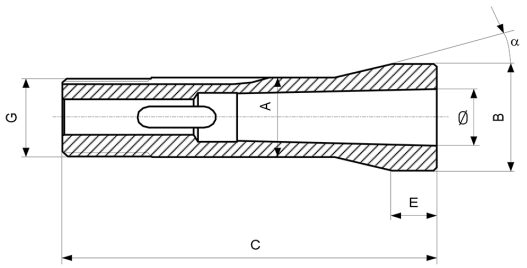



SCHAUBLIN

| Typ | A | B | C | E | F | G |
|---|---|---|---|---|---|---|
| P6 | | | | | | |
| 83-40003 | 6.00 | 8.50 | 52.00 | 25.00 | 12.00 | M4.00 |
| | | | | 25.00 | 25.00 | |
| P9 | | | | | | |
| 83-40008 | 9.00 | 13.20 | 78.00 | 40.00 | 20.00 | M6.00 |
| P10 | | | | | | |
| 83-40001 | 10.00 | 14.00 | 78.00 | 40.00 | 30.00 | M7.00 |
| | | | | 40.00 | 40.00 | |

## 1.6.23 Hülse mit Morse Konus



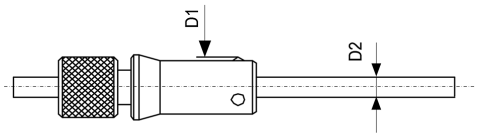


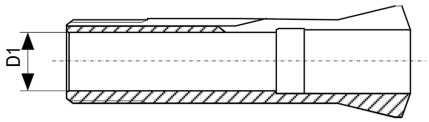

SCHAUBLIN

| Typ | A | B | C | E | G | α | Ø von - bis |
|---|---|---|---|---|---|---|---|
| W20 | | | | | | | |
| 102-20275 | 20.00 | 26.30 | 71.00 | 2.00 | Ø19.7x1.666/45°/5° | 15° | DIN228 MK1 |
| 102-20276 | 20.00 | 26.30 | 89.00 | 20.00 | Ø19.7x1.666/45°/5° | 15° | DIN228 MK2 |
| W25 | | | | | | | |
| 102-25275 | 25.00 | 33.70 | 100.5 | 8.00 | Ø24.7x1.693/45°/5° | 15° | DIN228 MK1 |

# 1.6.24 Spannzangen Zubehör

## 1.6.24.1 Tiefenanschlag




Je nach Durchmesser D1 sind die Tiefenanschläge
auch für andere Zangentypen geeignet.

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| Typ | D1 min - max | D2 | Geeignet für |
|---|---|---|---|
| | | | |
| 68-99100 | 3.90 - 4.40 | 1.20 | 72-137 B8 / 76-599 F6 |
| 68-99101 | 4.50 - 5.40 | 1.20 | 76-66 F7 |
| 68-99102 | 5.40 - 6.60 | 1.50 | 76-577 F8 |
| 68-99103 | 6.50 - 7.40 | 2.00 | 76-86 F10 / 80-1 W10 |
| 68-99104 | 8.00 - 8.80 | 2.50 | 80-2 W12 |
| 68-99105 | 9.30 - 10.90 | 2.50 | 72-139 B15 / 76-78 F12 / 76-357 F13 / 76-98 F14 / 80-3 W15 |
| 68-99106 | 12.00 - 13.80 | 2.50 | 76-1076 F16 / 77-122 L20 |
| 68-99107 | 13.50 - 15.10 | 5.00 | 80-4 W20 |
| 68-99108 | 15.00 - 16.80 | 5.00 | |
| 68-99109 | 16.40 - 18.20 | 7.00 | 76-87 F20 / 76-71 F22 |
| 68-99110 | 16.50 - 19.95 | 5.00 | 80-5 W25 |
| 68-99111 | 19.80 - 22.80 | 7.00 | 76-64 F25 |
| 68-99112 | 22.00 - 23.80 | 7.00 | 76-22 F27 / 76-93 F28 |
| 68-99113 | 23.00 - 24.80 | 7.00 | 72-65 B32 |
| 68-99114 | 24.60 - 27.80 | 7.00 | 76-101 F30 / 76-221 F32 /80-842 W31.75 |
| 68-99115 | 27.60 - 30.80 | 7.00 | 76-94 F35 |
| 68-99116 | 30.00 - 33.80 | 7.00 | 76-72 F38 |
| 68-99117 | 34.80 - 40.70 | 10.00 | 72-199 B45 / 76-99 F42 |
| 68-99118 | 39.80 - 44.70 | 10.00 | 76-81 F48 |

## 1.6.24.2 Dichtgummis

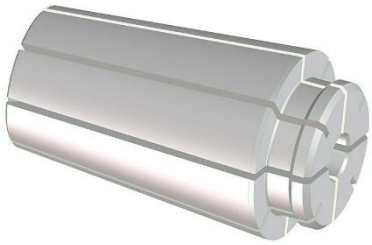


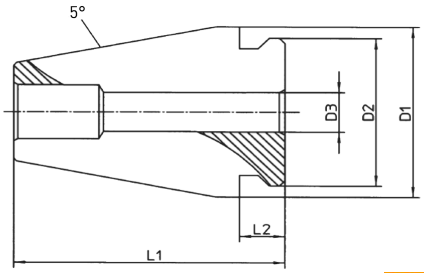
**Die nachstehend aufgeführten Zangen werden mit Dichtgummi geliefert.**
Dichtgummis sind als Ersatzteil lieferbar.

SCHAUBLIN

| Typ | Dichtgummi | Pos | Rund Ø | 4-Kt. | 6-Kt. |
|---|---|---|---|---|---|
| B34 | | | | | |
| 72-1820 | 76-832 | 50 | min-11.99 | min-11.99 | min-9.99 |
| | 76-832 | 40 | 12.00-max | 12.00-max | 10.00-max |
| B46 | | | | | |
| 72-2007 | 76-832 | 70 | min-27.99 | min-23.99 | min-19.49 |
| | 76-832 | 60 | 28.00-max | 24.00-max | 19.50-max |
| F16 | | | | | |
| 76-830 | M505220 | silicon Ø 4 | | | |
| F20 | | | | | |
| 76-87 | 76-832 | 10 | | | |
| F22 | | | | | |
| 76-71 | 76-832 | 10 | | | |
| F25 | | | | | |
| 76-64 | 76-832 | 10 | | | |
| F27 | | | | | |
| 76-22 | 76-832 | 50 | min-20.99 | min-18.00 | min-15.00 |
| | 76-832 | 40 | 21.00-max | 18.01-max | 15.01-max |
| F28 | | | | | |
| 76-93 | 76-832 | 50 | min-14.99 | min-12.99 | min-10.99 |
| | 76-832 | 40 | 15.00-max | 13.00-max | 11.00-max |
| F30 | | | | | |
| 76-63 | 76-832 | 50 | min-16.00 | min-15.50 | min-12.50 |
| | 76-832 | 40 | 16.01-max | 15.51-max | 12.51-max |
| F32 | | | | | |
| 76-221 | 76-832 | 50 | min-22.49 | min-19.49 | min-15.99 |
| | 76-832 | 40 | 22.50-max | 19.50-max | 16.00-max |
| F35 | | | | | |
| 76-94 | 76-832 | 70 | min-7.99 | min-7.99 | min-7.99 |
| | 76-832 | 60 | 8.00-max | 8.00-max | 8.00-max |
| 76-2010 | 76-832 | 60 | | | |
| 76-2011 | 76-832 | 40 | | | |
| 76-2012 | 76-832 | 60 | | | |
| 76-2013 | 76-832 | 60 | | | |
| F38 | | | | | |
| 76-72 | 76-832 | 70 | min-14.99 | min-12.99 | min-7.99 |
| | 76-832 | 60 | 15.00-max | 13.00-max | 8.00-max |
| 76-2004 | 76-832 | 70 | min-14.99 | min-12.99 | min-10.59 |
| | 76-832 | 60 | 15.00-max | 13.00-max | 10.60-max |
| F42 | | | | | |
| 76-99 | 76-832 | 70 | min-19.99 | min-17.99 | min-11.99 |
| | 76-832 | 60 | 20.00-max | 18.00-max | 12.00-max |
| F48 | | | | | |
| 76-81 | 76-832 | 70 | min-23.99 | min-7.99 | min-7.99 |
| | 76-832 | 60 | 24.00-max | 8.00-max | 8.00-max |
| 76-2006 | 76-832 | 70 | min-23.99 | min-20.79 | min-16.99 |
| | 76-832 | 60 | 24.00-max | 20.80-max | 17.00-max |
| F66 | | | | | |
| 76-359 | 76-836 | 100 | | | |
| P25 | | | | | |
| 78-834 | M505220 | silicon Ø 4 | | | |
| W25 | | | | | |
| 80-1923 | M505220 | silicon Ø 4 | | | |

# 1.6.25 Spannzangen Typ D





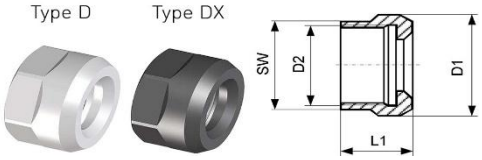

SCHAUBLIN

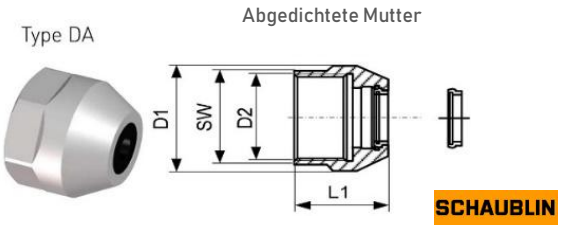
**mit flachem Konus für hohe Drehzahlen**
**Qualität UP, spannt den Nenndurchmesser**

Standardbohrungen (rund, vierkant, sechskant) erhältlich
Sonderbohrungen auf Anfrage

| Typ | D1 | D2 | D3 | L1 | L2 |
|---|---|---|---|---|---|
| D6 | | | | | |
| 74-6000 | 6.10 | 5.10 | 0.50-3.17 | 13.00 | 2.60 |
| D8 | | | | | |
| 74-8000 | 8.13 | 6.85 | 0.50-5.00 | 16.50 | 2.80 |
| D10 | | | | | |
| 74-10000 | 10.14 | 8.25 | 0.50-6.00 | 20.00 | 3.00 |
| D12 | | | | | |
| 74-12000 | 12.65 | 9.35 | 0.50-7.00 | 24.00 | 3.20 |
| D14 | | | | | |
| 74-14000 | 14.15 | 11.55 | 0.50-9.00 | 25.00 | 3.60 |
| D16 | | | | | |
| 74-16000 | 16.65 | 12.90 | 0.50-10.00 | 28.50 | 4.20 |
| D20 | | | | | |
| 74-20000 | 20.18 | 15.90 | 0.50-12.70 | 32.00 | 4.60 |
| D24 | | | | | |
| 74-24000 | 24.18 | 19.40 | 0.50-16.00 | 35.00 | 5.00 |
| D29 | | | | | |
| 74-29000 | 29.18 | 23.90 | 1.00-20.00 | 40.00 | 5.40 |

# 1.6.25.1 Ausgewuchtete Muttern für Zangen Typ D



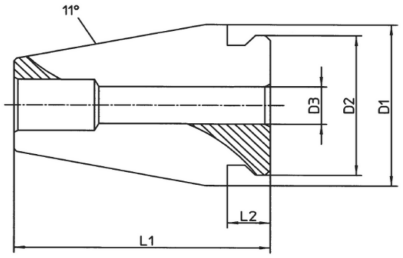




Info zu beschichteter Mutter Typ DX:
Ein mögliches Anfressen des Gewindes durch Verschmutzung, hohe Temperaturunterschiede, hohe Spannkräfte oder Bearbeitungsvibrationen zwischen Spannzangenhalter und Mutter wird mit der Beschichtung beim Typ DX verhindert.

| Typ | D1 | D2 | L1 | SW | Dichtscheibe |
|---|---|---|---|---|---|
| D6 | | | | | |
| 68-6700 | 11.30 | M8x0.75 | 10.00 | 10.00 | - |
| DX6 | | | | | |
| 68-6703 | 11.30 | M8x0.75 | 10.00 | 10.00 | - |
| D8 | | | | | |
| 68-8700 | 13.50 | M10x0.75 | 12.0 | 12.00 | - |
| DX8 | | | | | |
| 68-8703 | 13.50 | M10x0.75 | 12.00 | 12.00 | - |
| D10 | | | | | |
| 68-10700 | 15.70 | M12x0.75 | 14.00 | 14.00 | - |
| DX10 | | | | | |
| 68-10703 | 15.70 | M12x0.75 | 14.00 | 14.00 | - |
| DA10 | | | | | |
| 68-10790 | 15.70 | M12x0.75 | 20.00 | 14.00 | 68-10791 |
| D12 | | | | | |
| 68-12700 | 20.00 | M15x0.75 | 16.00 | 18.00 | - |
| DX12 | | | | | |
| 68-12703 | 20.00 | M15x0.75 | 16.00 | 18.00 | - |
| DA12 | | | | | |
| 68-12790 | 20.00 | M15x0.75 | 22.00 | 18.00 | 68-12791 |
| D14 | | | | | |
| 68-14700 | 22.50 | M17x1.00 | 18.00 | 20.00 | - |
| DX14 | | | | | |
| 68-14703 | 22.50 | M17x1.00 | 18.00 | 20.00 | - |
| DA14 | | | | | |
| 68-14790 | 22.50 | M17x1.00 | 24.00 | 20.00 | 68-14791 |
| D16 | | | | | |
| 68-16700 | 27.00 | M20x1.00 | 19.00 | 24.00 | - |
| DX16 | | | | | |
| 68-16703 | 27.00 | M20x1.00 | 19.00 | 24.00 | - |
| DA16 | | | | | |
| 68-16790 | 27.00 | M20x1.00 | 25.00 | 24.00 | 68-16791 |
| D20 | | | | | |
| 68-20700 | 30.50 | M24x1.00 | 19.00 | 27.00 | - |
| 68-20703 | 30.50 | M24x1.00 | 19.00 | 27.00 | - |
| DA20 | | | | | |
| 68-20790 | 30.50 | M24x1.00 | 25.00 | 27.00 | 68-20791 |
| D24 | | | | | |
| 68-24700 | 36.00 | M28x1.00 | 22.00 | 32.00 | - |
| DX24 | | | | | |
| 68-24703 | 36.00 | M28x1.00 | 22.00 | 32.00 | - |
| DA24 | | | | | |
| 68-24790 | 36.00 | M28x1.00 | 28.00 | 32.00 | 68-24791 |
| D29 | | | | | |
| 68-29700 | 42.00 | M34x1.00 | 25.00 | 38.00 | - |
| DX29 | | | | | |
| 68-29703 | 42.00 | M34x1.00 | 25.00 | 38.00 | - |
| DA29 | | | | | |
| 68-29790 | 42.00 | M34x1.00 | 31.00 | 38.00 | 68-29791 |

## 1.6.26 Passende Zange mit Typ SRP6 für hochgenaue Spindel



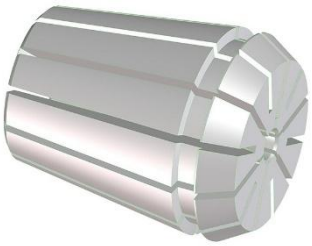


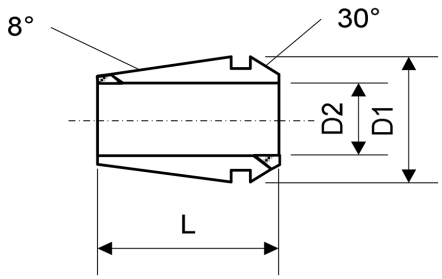

Spannt den Nenndurchmesser

SCHAUBLIN

| Typ | D1 | D2 | D3 | L1 | L2 |
|---|---|---|---|---|---|
| | | | | | |
| 74-2002 | 13.00 | 11.20 | 2.00 – 8.00 | 19.10 | 3.20 |

## 1.6.27 ESX (DIN 6499-B) Zangen



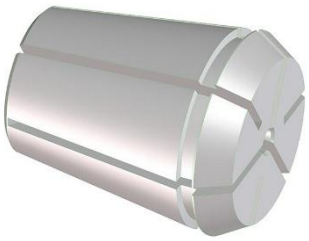


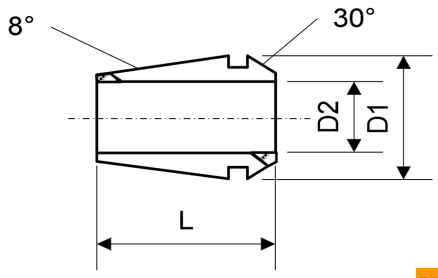

Standard Qualität mit Spannbereich
Spannbereich = D1 bis minus Wert S

SCHAUBLIN

| Typ | D1 | D2 | L | S |
|---|---|---|---|---|
| ESX9 | | | | |
| 75-9300 | 9.00 | 1.00 - 5.00 | 14.50 | 0.50 |
| ESX12 | | | | |
| 75-12300 | 12.00 | 1.00 - 3.00 | 19.50 | 0.50 |
| 75-12300 | | 4.00 - 7.00 | | 1.00 |
| ESX16 | | | | |
| 75-16300 | 17.00 | 1.00 - 1.50 | 27.50 | 0.50 |
| 75-16300 | | 2.00 - 10.00 | | 1.00 |
| ESX20 | | | | |
| 75-20300 | 21.00 | 1.00 - 1.50 | 31.50 | 0.50 |
| 75-20300 | | 2.00 - 13.00 | | 1.00 |
| ESX25 | | | | |
| 75-25300 | 26.00 | 1.00 - 1.50 | 34.00 | 0.50 |
| 75-25300 | | 2.00 - 16.00 | | 1.00 |
| ESX32 | | | | |
| 75-32300 | 33.00 | 2.50 - 20.00 | 40.00 | 1.00 |
| ESX40 | | | | |
| 75-40300 | 41.00 | 3.00 - 26.0.0 | 46.00 | 1.00 |

# 1.6.28 EX (DIN 6499-A) Zangen



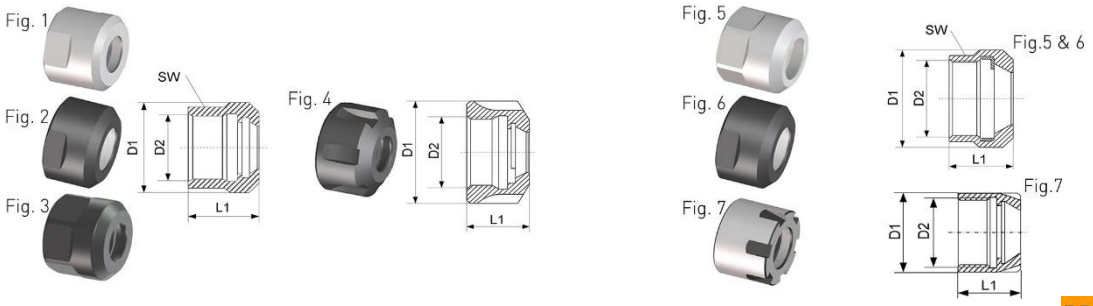



SCHAUBLIN

UP Qualität - spannt den Nenndurchmesser

| Typ | D1 | D2 | L |
|---|---|---|---|
| EX9 | | | |
| 75-9200 | 9.00 | 0.50 - 5.00 | 14.50 |
| EX12 | | | |
| 75-12200 | 11.75 | 0.50 - 7.00 | 17.50 |
| EX16 | | | |
| 75-16200 | 16.70 | 0.30 - 10.00 | 27.50 |
| EX20 | | | |
| 75-20200 | 20.70 | 1.00 - 13.00 | 31.50 |
| EX25 | | | |
| 75-25200 | 25.70 | 1.00 - 16.00 | 34.00 |
| EX32 | | | |
| 75-32200 | 32.70 | 2.00 - 20.00 | 40.00 |
| EX40 | | | |
| 75-40200 | 40.70 | 3.00 - 26.00 | 46.00 |

# 1.6.28.1 EX / EXP / EXM (DIN6499) Muttern




passende Spannschlüssel auf Anfrage lieferbar

SCHAUBLIN

| Typ | D1 | D2 | L1 | SW | Fig. |
|---|---|---|---|---|---|
| EX9 | | | | | |
| 61-9730 | 15.00 | M11x0.75 | 11.50 | 13.00 | 1 |
| EX12 | | | | | |
| 61-12730 | 19.00 | M14x0.75 | 14.00 | 17.00 | 3 |
| EX16 | | | | | |
| 61-16730 | 32.00 | M22x1.50 | 18.00 | - | 4 |
| EX20 | | | | | |
| 61-20730 | 35.00 | M25x1.50 | 19.50 | - | 4 |
| EX25 | | | | | |
| 61-25730 | 42.00 | M32x1.50 | 20.50 | - | 4 |
| EX32 | | | | | |
| 61-32730 | 50.00 | M40x1.50 | 23.00 | - | 4 |
| EX40 | | | | | |
| 61-40730 | 63.00 | M50x1.50 | 26.00 | - | 4 |
| EXP9 | | | | | |
| 61-9710 | 13.50 | M10x0.75 | 11.50 | 12.00 | 5 |
| EXP12 | | | | | |
| 91-12710 | 16.70 | M13x0.75 | 14.00 | 15.00 | 3 |
| EXP16 | | | | | |
| 61-16710 | 25.00 | M20x1.00 | 18.00 | 22.00 | 2 |
| EXP20 | | | | | |
| 61-20710 | 30.50 | M24x1.00 | 18.50 | 27.00 | 6 |
| EXM11 | | | | | |
| 61-11772 | 16.00 | M13x0.75 | 12.10 | - | 7 |
| EXM16 | | | | | |
| 61-16772 | 22.00 | M19x1.00 | 18.00 | - | 7 |
| EXM20 | | | | | |
| 61-20772 | 28.00 | M24x1.00 | 19.50 | - | 7 |
| EXM25 | | | | | |
| 61-25772 | 35.00 | M30x1.00 | 20.50 | - | 7 |

# 1.6.28.2 EXA / EXPA / EXF (DIN6499) Muttern

Fig. 1



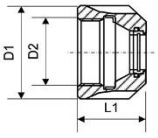



Fig. 2



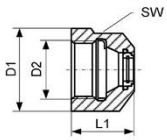
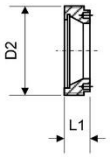



Fig. 3





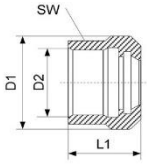

SCHAUBLIN

passende Spannschlüssel auf Anfrage lieferbar

| Typ | D1 | D2 | L1 | SW | Fig. |
|---|---|---|---|---|---|
| EXA12 | | | | | |
| 61-12790 | 19.00 | M14x0.75 | 19.50 | 17.00 | 1 |
| EXA16 | | | | | |
| 61-16790 | 32.00 | M22x1.50 | 22.50 | - | 1 |
| EXA20 | | | | | |
| 61-20790 | 35.00 | M25x1.50 | 24.00 | - | 1 |
| EXA25 | | | | | |
| 61-25790 | 42.00 | M32x1.50 | 25.00 | - | 1 |
| EXA32 | | | | | |
| 61-32790 | 50.00 | M40x1.50 | 27.50 | - | 1 |
| EXA40 | | | | | |
| 61-40790 | 63.00 | M50x1.50 | 30.50 | - | 1 |
| EXPA16 | | | | | |
| 61-16795 | 25.00 | M20x1.00 | 23.30 | 22.00 | 2 |
| EXPA20 | | | | | |
| 61-20795 | 30.50 | M24x1.00 | 24.00 | 27.00 | 2 |
| EXF16 | | | | | |
| 61-16777 | - | M24x1.00 | 8.10 | - | 3 |
| EXF20 | | | | | |
| 61-20777 | - | M28x1.50 | 10.90 | - | 3 |
| EXF25 | | | | | |
| 61-25777 | - | M32x1.50 | 12.50 | - | 3 |
| EXF32 | | | | | |
| 61-32777 | - | M40x1.50 | 14.00 | - | 3 |

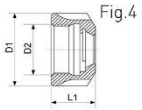
# 1.6.28.3 EXE / EXPE (DIN6499) Muttern

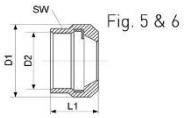









SCHAUBLIN

passende Spannschlüssel auf Anfrage lieferbar

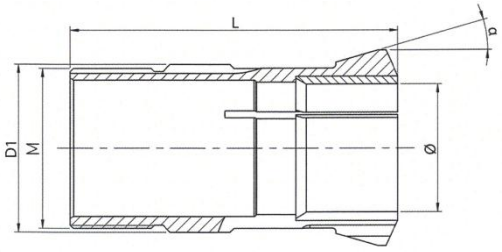
| Typ | D1 | D2 | L1 | SW | Fig. |
|---|---|---|---|---|---|
| EXE9 | | | | | |
| 61-9720 | 15.00 | M11x0.75 | 11.50 | 13.00 | 1 |
| EXE12 | | | | | |
| 61-12720 | 19.00 | M14x0.75 | 14.00 | 17.00 | 3 |
| EXE16 | | | | | |
| 61-16720 | 32.00 | M22x1.50 | 18.00 | - | 4 |
| EXE20 | | | | | |
| 61-20720 | 35.00 | M25x1.50 | 19.50 | - | 4 |
| EXE25 | | | | | |
| 61-25720 | 42.00 | M32x1.50 | 20.50 | - | 4 |
| EXE32 | | | | | |
| 61-32720 | 50.00 | M40x1.50 | 23.00 | - | 4 |
| EXE40 | | | | | |
| 61-40720 | 63.00 | M50x1.50 | 26.00 | - | 4 |
| EXPE9 | | | | | |
| 61-9721 | 13.50 | M10x0.75 | 11.50 | 12.00 | 5 |
| EXPE12 | | | | | |
| 61-12721 | 16.70 | M13x0.75 | 14.00 | 15.00 | 3 |
| EXPE16 | | | | | |
| 61-16721 | 25.00 | M20x1.00 | 18.00 | 22.00 | 2 |
| EXPE20 | | | | | |
| 61-20721 | 30.50 | M24x1.00 | 18.50 | 27.00 | 6 |

# 2 HM - FÜHRUNGSBÜCHSEN



## 2.1 Führungsbüchsen Typ B

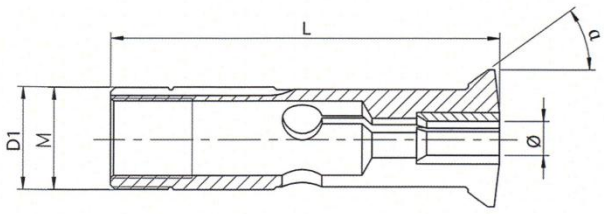





| Typ | Meister S.A. | D1 | L | M | a | Ø max | 6-Kt max | 4-Kt max | Hülse D | Hülse L1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| 600 | T7-29 | 7.00 | 29.00 | M6.00x0.50 | 30° | 4.00 | 3.50 | 3.00 | 10.00 | 24.00 |
| 1601 | T7-30 | 7.00 | 30.00 | M6.00x0.50 | 16° | 3.50 | 3.00 | 2.50 | 10.00 | 24.00 |
| 351 | T9-50 | 9.00 | 50.00 | M8.00x0.60 | 30° | 5.00 | 4.50 | 3.50 | 13.00 | 40.00 |
| 1351 | T9-44 | 9.00 | 44.00 | M8.00x0.75 | 16° | 5.00 | 4.50 | 3.50 | 13.00 | 39.00 |
| 600S | T9-26 | 9.00 | 26.00 | M6.00x0.50 | 30° | 4.50 | 4.00 | 3.00 | 13.00 | 36.00 |
| 352 | T11-50 | 11.00 | 50.00 | M10.00x0.60 | 30° | 7.50 | 6.50 | 5.00 | 15.00 | 40.00 |
| 1352 | T11-53-M10.080 | 11.00 | 53.00 | M10.00x0.80 | 16° | 7.50 | 6.50 | 5.00 | 15.00 | 50.00 |
| 103 | T12-50-M12.1 | 12.00 | 50.00 | M12.00x1.00 | 30° | 8.00 | 7.00 | 5.50 | 16.00 | 40.00 |
| 1603 | T12-50-M10.075 | 12.00 | 50.00 | M10.00x0.75 | 16° | 7.50 | 6.50 | 5.00 | 16.00 | 48,5.00 |
| 603 | T16-61 | 16.00 | 61.00 | M15.00x1.00 | 30° | 11.00 | 9.50 | 8.00 | 20.00 | 50.00 |
| 1353 | T16-59 | 16.00 | 59.00 | M14 00x1.00 | 16° | 10.50 | 9.00 | 7.50 | 22.00 | 52.00 |
| 1604 | T16-58 | 16.00 | 58.00 | M14.00x1.00 | 16° | 10.50 | 9.00 | 7.50 | 20.00 | 52.00 |
| 353 | T17-61 | 17.00 | 61.00 | M15.00x1.00 | 30° | 12.00 | 10.50 | 8.50 | 22.00 | 50.00 |
| 853 | T18-59-M16.1 | 18.00 | 61.00 | M16.00x1.00 | 30° | 13.00 | 11.00 | 9.00 | 22.00 | 44.00 |
| 104 | T20-55 | 20.00 | 55.00 | M20.00x1.00 | 30° | 13.00 | 11.00 | 9.00 | 34.00 | 40.00 |
| 1354 | T22-68-M19.1 | 22.00 | 68.00 | M19.00x1.00 | 16° | 16.00 | 14.00 | 11.00 | 32.00 | 63.00 |
| 605 | T24-61 | 24.00 | 61.00 | M24.00x1.00 | 30° | 16.00 | 14.00 | 11.00 | 30.00 | 50.00 |
| 354 | T25-71 | 25.00 | 63.00 | M25.00x1.00 | 30° | 18.00 | 15.50 | 13.00 | 32.00 | 50.00 |
| 1357 | T28-81 | 28.00 | 81.00 | M25.00x1.00 | 30° | 21.00 | 18.00 | 15.00 | 40.00 | 71.00 |
| 355 | T32-71 | 32.00 | 71.00 | M32.00x1.00 | 30° | 22.00 | 19.00 | 15.50 | 40.00 | 50.00 |
| 105 | T40-72-M40.1 | 40.00 | 71.00 | M40.00x1.00 | 30° | 30.00 | 26.00 | 22.00 | 56.00 | 50.00 |
| 854 | T40-72-M36.1 | 40.00 | 72.00 | M36.00x1.00 | 30° | 26.00 | 22.00 | 18.00 | 50.00 | 53.00 |
| 1355 | T44-87 | 44.00 | 87.00 | M40.00x1.00 | 30° | 32.00 | 28.00 | 23.00 | 56.00 | 71.00 |
| 106 | T48-81-C30 | 48.00 | 81.00 | M48.00x1.25 | 30° | 32.00 | 28.00 | 23.00 | 77.00 | 65.00 |

## 2.2 Magic Führungsbüchsen

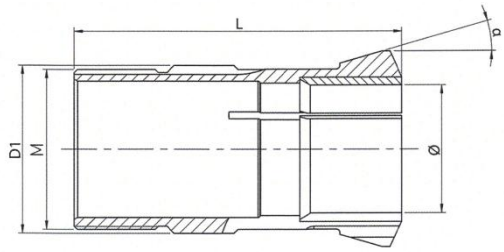





| Typ | D1 | L | M | α | Ø max | 6-Kt max | 4-Kt max |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| CMF-201 | 10.00 | 56.50 | M10.00 x 1.00 | 36° | 5.50 | 4.50 | 3.50 |
| CRD-143 | 13.00 | 68.00 | M13.00 x 1.00 | 36° | 7.50 | 6.50 | 5.00 |
| CRA-165 | 18.00 | 68.00 | M18.00 x 1.00 | 36° | 12.70 | 10.00 | 8.00 |
| RK-15007 | 30.00 | 74.50 | Type A | 19° | 15.00 | 13.00 | 10.50 |
| RK-15013 | 30.00 | 73.00 | M22.00 x 1.00 | 19° | 16.00 | 14.00 | 11.00 |
| RK-10439 | 36.00 | 73.50 | M27.00 x 1.00 | 19° | 21.00 | 18.00 | 15.00 |
| RK-10427 | 38.00 | 74.50 | Type A | 19° | 20.00 | 17.50 | 14.00 |

## 2.3 Mitlaufende Führungsbüchsen






| Typ | Meister S.A. | D1 | L | M | a | Ø max | 6-Kt max | 4-Kt max |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 3400T | T13-41.5 | 13.00 | 41.50 | M12.50x0.75 | 15° | 8.00 | 7.00 | 5.50 |
| 3300T | T14-64 | 14.00 | 64.00 | M13.00x0.75 | 16° | 8.00 | 7.00 | 5.50 |
| TOP100 | TOP100 | 18.00 | 100.00 | M18.00x1.00 | 20° | 13.00 | 11.00 | 9.00 |
| 221T | T21-57.4 | 21.00 | 57.40 | M18.00x1.00 | 12° | 11.00 | 9.50 | 8.00 |
| 3401T | T21-56.4 | 21.00 | 56.40 | M18.00x1.00 | 12° | 11.00 | 9.50 | 8.00 |
| 221T Traub | T21-65.5 | 21.00 | 65.50 | M18.00x1.00 | 12° | 14.00 | 12.00 | 9.00 |
| 39001T | T22-68-M22.1-R | 22.00 | 68.00 | M22.00x1.00 | 16° | 18.00 | 15.00 | 13.00 |
| 222T | T23-72 | 23.00 | 72.00 | M22.00x1.00 | 16° | 17.00 | 14.00 | 11.00 |
| TD26 | T26-77 | 26.00 | 77.00 | M25.00x1.00 | 16° | 20.00 | 17.00 | 14.00 |
| 3402T | T27-57.5 | 27.00 | 57.50 | M24.00x1.00 | 12° | 16.00 | 14.00 | 11.00 |
| 223T | T28-82-M25.1 | 28.00 | 82.00 | M25.00x1.00 | 16° | 21.00 | 18.00 | 15.00 |
| 227T | T34-87.5 | 34.00 | 87.50 | M34.00x1.00 | 10° | 25.00 | 22.00 | 18.00 |
| TOP200 | TOP200 | 34.00 | 150.00 | M 32'00x1.50 | 20° | 26.00 | 22.00 | 18.00 |
| 228T | T41-54 | 41.00 | 54.00 | M38.00x1.00 | 10° | 32.00 | 27.00 | 20.00 |
| 229T | T42-82-C16-M | 42.00 | 82.00 | M40.00x1.00 | 16° | 32.00 | 28.00 | 23.00 |
| 245T | T45-82 | 45.00 | 82.00 | M42.00x1.00 | 16° | 32.00 | 27.00 | 20.00 |
| 249T | T48-81-C10 | 48.00 | 81.00 | M46.00x1.00 | 10° | 38.00 | | |
| 248T | T48-82 | 48.00 | 82.00 | M46.00x1.00 | 16° | 38.00 | 32.00 | 25.00 |

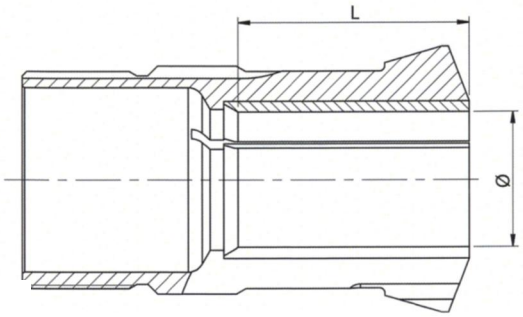
## 2.4 Führungsbüchsen mit langem HM Einsatz



Hartmetall Standardlänge



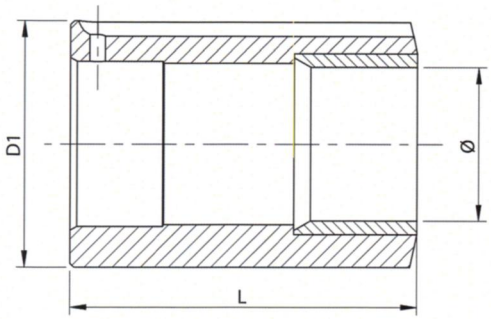
Hartmetall lange Ausführung




Verlängerte HM-Einsätze auf Anfrage

## 2.5 Feste Führungsbüchsen



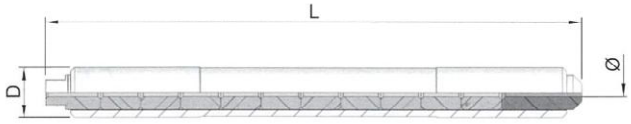



| Typ | Meister S.A. | D1 | L | Ø max | 6-Kt max | 4-Kt max |
|---|---|---|---|---|---|---|
| | | | | | | |
| 751 | FI6 | 6.00 | 11.00 | 3.50 | 3.00 | 2.50 |
| 501 | FI10 | 10.00 | 15.00 | 4.50 | 4.00 | 3.00 |
| 651 | FI12 | 12.00 | 20.00 | 6.00 | 5.50 | 4.00 |
| 502 | FI13 | 13.00 | 30.00 | 7.00 | 6.00 | 5.00 |
| 503 | FI15 | 15.00 | 30.00 | 10.00 | 8,5.00 | 7.00 |
| 252 | FI16 | 16.00 | 30.00 | 10.00 | 8,5.00 | 7.00 |
| 755 | FI20 | 20.00 | 30.00 | 12.00 | 10.50 | 8.00 |
| 504 | FI22 | 22.00 | 32.00 | 13.00 | 11.00 | 9.00 |
| 505 | FI24 | 24.00 | 32.00 | 16.00 | 14.00 | 11.00 |
| 756 | FI25 | 25.00 | 35.00 | 16.00 | 14.00 | 11.00 |
| 253 | FI30 | 30.00 | 35.00 | 20.00 | 17.50 | 14.00 |
| 507 | FI32 | 32.00 | 45.00 | 21.00 | 18.00 | 15.00 |
| 254 | FI34 | 34.00 | 34.00 | 22.00 | 19.50 | 15.50 |
| 758 | FI35 | 35.00 | 35.00 | 25.00 | 22.00 | 18.00 |
| 1006 | FI36 | 36.00 | 45.00 | 25.00 | 22.00 | 18.00 |
| 508 | FI40 | 40.00 | 45.00 | 25.00 | 22.00 | 18.00 |
| 761 | FI50 | 50.00 | 46.00 | 30.00 | 26.00 | 22.00 |

Weitere Typen und Ausführungen von Führungsbüchsen sind auf Anfrage lieferbar.

## 2.6 Esco D2 Führungsbüchsen

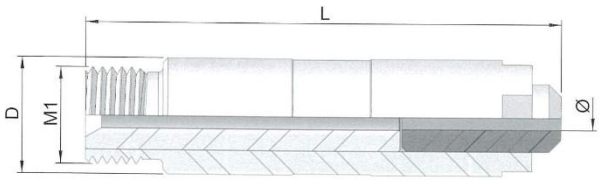





| Meister S.A. | Schwartz | D | L | Ø min | Ø max |
|---|---|---|---|---|---|
| | | | | | |
| ES-D2-10-115 | | 10 | 115 | 0.3 | 0.5 |
| ES-D2-10-110 | | 10 | 110 | 0.51 | 1 |
| ES-D2-10-107 | | 10 | 107 | 1.01 | 5 |
| ES-D2-10-CNC | | 10 | 113 | 0.3 | 5 |

## 2.7 Esco D6 Führungsbüchsen

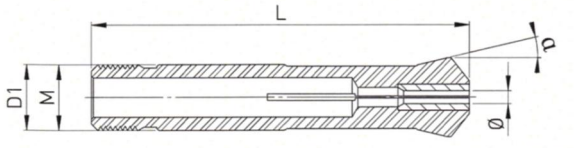





| Meister S.A. | Schwartz | D | L | M1 | Ø min | Ø max |
|---|---|---|---|---|---|---|
| | | | | | | |
| ES-D6-12-49.2 | D6-12-Mp3 | 12 | 49.2 | M10 x 075 G | 0.4 | 4.00 |
| ES-D6-12-49.2 | D6-12-Mp4 | 12 | 49.2 | M10 x 075 G | 4.01 | 5.50 |
| ES-D6-12-49.2 | D6-12-Mp5 | 12 | 49.2 | M10 x 075 G | 5.51 | 6.35 |

## 2.8 Esco New Mach Führungsbüchsen






| Typ | Schwartz | D1 | L | M | Ø min | Ø max |
|---|---|---|---|---|---|---|
| | | | | | | |
| 321-0172 | NM321-0172 | | | | 0.70 | 3.00 |
| 321-0173 | NM321-0173 | | | | 3.01 | 6.35 |

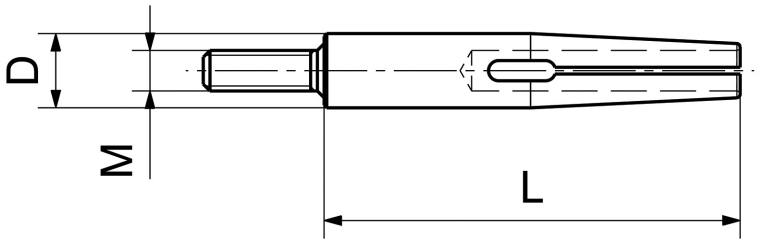
# 3 SPANNHÜLSEN und DREHENDE ENDSTÜCKE für Lademagazine



# 3.1 Spannhülsen

## 3.1.1 Spannhülsen für Super-Télébar (30 Rohre)

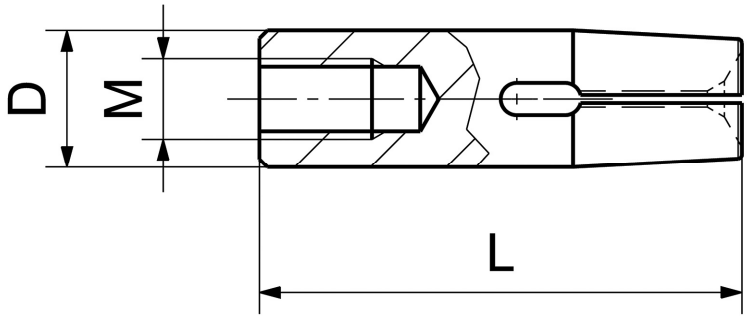





| Typ | D | L | M |
|---|---|---|---|
| | | | |
| V1600-Ø | 4.50 | 31.00 | M3.0 aus. |
| V1031a-Ø | 5.50 | 31.00 | M3.0 aus. |

## 3.1.2 Spannhülsen für Super-Télébar (24 Rohre und Barboy)

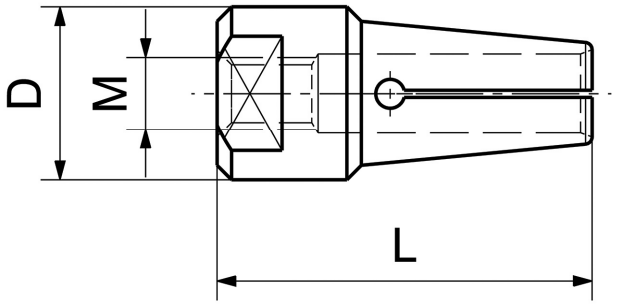





| Typ | D | L | M |
|---|---|---|---|
| | | | |
| V1032a-Ø | 7.50 | 30.00 | M4.00 in. |
| V1034a-Ø | 8.50 | 30.00 | M5.00 in. |
| V1035a-Ø | 10.50 | 35.00 | M6.00 in. |
| V1037a-Ø | 12.00 | 35.00 | M6.00 in. |
| V1608-Ø | 15.00 | 35.00 | M6.00 in. |
| V1609-Ø | 16.50 | 33.00 | M8.00 in. |
| V1121a-Ø | 20.50 | 33.00 | M8.00 in. |

## 3.1.3 Spannhülsen für Multibar Bechler

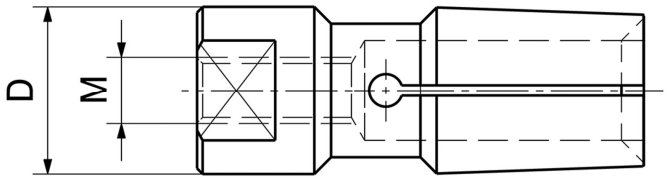





| Typ | D | L | M |
|---|---|---|---|
| | | | |
| V1026a-Ø | 4.50 | 22.00 | M2.50 |
| V1027a-Ø | 5.00 | 22.00 | M3.00 |
| V1802-Ø | 5.50 | 22.00 | M3.50 |
| V1028a-Ø | 7.00 | 22.00 | M4.00 |
| V1029a-Ø | 10.00 | 26.00 | M5.00 |
| V1122a-Ø | 12.00 | 26.00 | M5.00 |
| V1122b-Ø | 12.00 | 60.00 | M5.00 |
| V1123a-Ø | 16.00 | 30.00 | M6.00 |
| V1807-Ø | 16.00 | 60.00 | M6.00 |
| V1124a-Ø | 20.00 | 30.00 | M8.00x1.00 |
| V1809-Ø | 20.00 | 60.00 | M8.00x1.00 |

## 3.1.4 Spannhülsen für CADDIE AS-14 / SAS-16

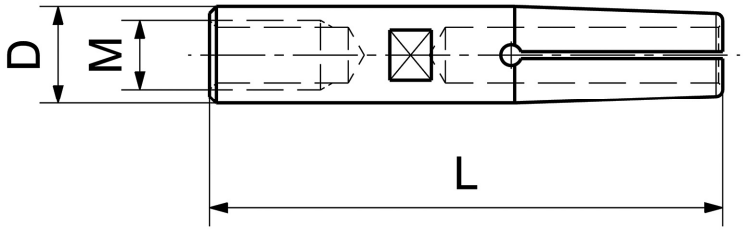





| Typ | D | L | M |
|---|---|---|---|
| | | | |
| V1699-Ø | 8.50 | M5.00 Links | 2.00 - 7.00 |
| V1700-Ø | 9.50 | M6.00 Links | 2.00 - 8.00 |
| V1125a-Ø | 10.50 | M6.00 Links | 3.00 - 9.00 |
| V1126a-Ø | 12.50 | M6.00 Links | 4.00 - 11.00 |
| V1127a-Ø | 15.00 | M6.00 Links | 4.00 - 13.00 |
| V1128a-Ø | 16.50 | M8.00 Links | 5.00 - 14.50 |

## 3.1.5 Spannhülsen mit Gewindebohrung

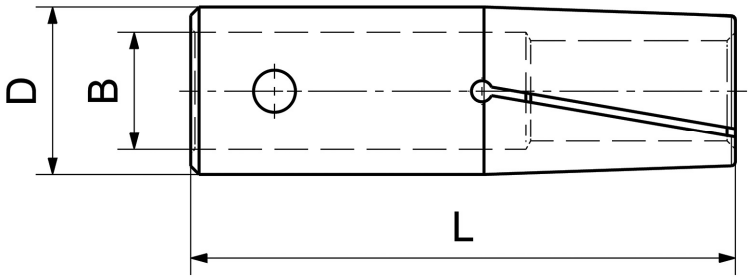





| Typ | D | L | M | Bohrung von - bis - |
|---|---|---|---|---|
| | | | | |
| V4005-Ø | 5.00 | 37.00 | M4.00 | 0.80 - 4.50 |
| v4007-Ø | 7.00 | 37.00 | M5.00 | 0.80 - 6.00 |

## 3.1.6 Spannhülsen mit Querloch für Robobar

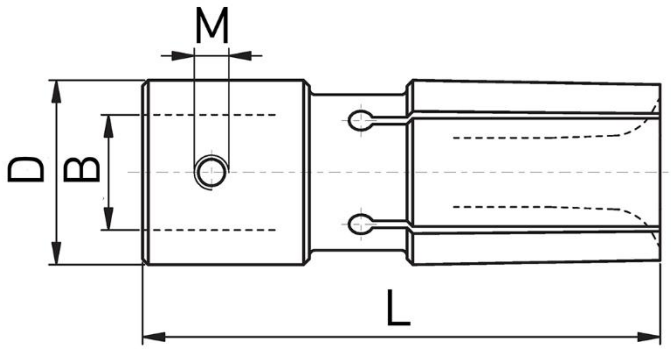





| Typ | E-Nr. | D | L | B | Bohrung |
|---|---|---|---|---|---|
| | | | | | |
| V4010-Ø | 210 E | 10.00 | 40.00 | 7.00 | 1.00 - 9.00 |
| V4012-Ø | 212 E | 12.00 | 40.00 | 8.00 | 1.50 - 10.50 |
| V4015-Ø | 203 E | 15.00 | 40.00 | 11.00 | 2.00 - 13.50 |
| V4016-Ø | | 16.00 | 40.00 | 11.00 | 4.00 - 15.00 |
| V4018-Ø | 218 E | 18.00 | 40.00 | 11.00 | 3.00 - 17.00 |
| V4020-Ø | 225 E | 20.00 | 65.00 | 14.00 | 2.00 - 19.00 |
| V4025-Ø | 222 E | 25.00 | 65.00 | 20.00 | 2.00 - 24.00 |
| V4030-65-Ø | | 30.00 | 65.00 | 20.00 | 4.00 - 29.00 |
| V4032-65-Ø | | 32.00 | 65.00 | 20.00 | 3.00 - 31.00 |

## 3.1.7 Spannhülsen L. 90 mm mit 3 Befestigungsschrauben

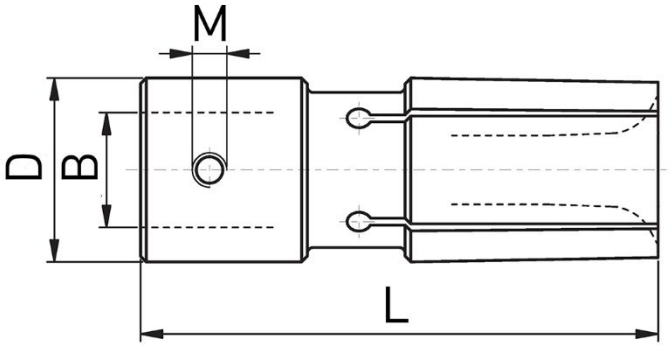





| Typ | D | L | B | M | Bohrung von - bis - |
|---|---|---|---|---|---|
| | | | | | |
| V4030-90-Ø | 30.00 | 90.00 | 20.00 | M6 | 3.00 - 28.00 |
| V4032-90-Ø | 32.00 | 90.00 | 20.00 | M6 | 2.50 - 30.50 |
| V4036-90-Ø | 36.00 | 90.00 | 20.00 | M8 | 4.00 - 34.00 |

## 3.1.8 Spannhülsen mit 3 Schrauben für FMB, LNS, Breuning, Irco






| Typ | D | L | B | M | Bohrung von - bis - |
|---|---|---|---|---|---|
| | | | | | |
| V4025-90-Ø | 25.00 | 90.00 | 20.00 | M5 | 2.50 - 24.00 |
| V4030-90-Ø | 30.00 | 90.00 | 20.00 | M6 | 3.00 - 28.00 |
| V4032-90-Ø | 32.00 | 90.00 | 20.00 | M6 | 2.50 - 30.50 |
| V4034-90-Ø | 34.00 | 90.00 | 20.00 | M6 | 6.00 - 32.50 |
| V4036-90-Ø | 36.00 | 90.00 | 20.00 | M8 | 4.00 - 34.00 |
| V4038-90-Ø | 38.00 | 90.00 | 20.00 | M8 | 10.00 - 36.00 |
| V4040-90-Ø | 40.00 | 90.00 | 20.00 | M8 | 7.00 - 38.50 |
| V4042-90-Ø | 42.00 | 90.00 | 20.00 | M8 | 3.00 - 40.00 |
| V4045-90-Ø | 45.00 | 90.00 | 20.00 | M8 | 10.00 - 43.00 |
| V4050-90-Ø | 50.00 | 90.00 | 20.00 | M8 | 6.00- 48.50 |
| V4054-90-Ø | 54.00 | 90.00 | 20.00 | M8 | 20.00 - 51.00 |
| V4058-90-Ø | 58.00 | 90.00 | 20.00 | M8 | 20.00 - 55.00 |
| V4060-90-Ø | 60.00 | 90.00 | 20.00 | M8 | 10.00 - 58.50 |
| V4065-90-Ø | 65.00 | 90.00 | 20.00 | M8 | 8.00 - 63.50 |
| V4080-90-Ø | 80.00 | 90.00 | 35.00 | M8 | 40.00 - 77.00 |
| V4090-90-Ø | 90.00 | 90.00 | 35.00 | M8 | 50.00 - 86.00 |
| V4100-110 | 100.00 | 110.00 | 35.00 | M8 | 60.00 - 95.00 |

## 3.1.9 Spannhülsen für Bechet

Fig. 1

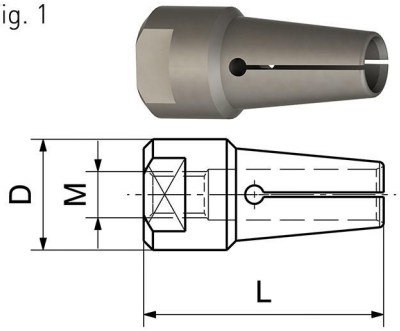



Fig. 2

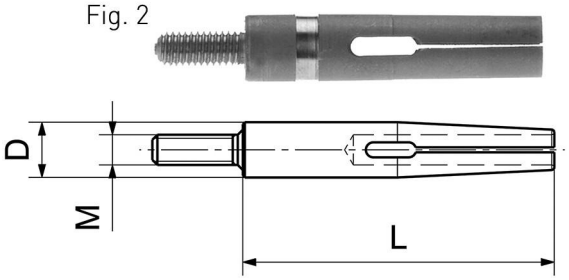



Fig. 3

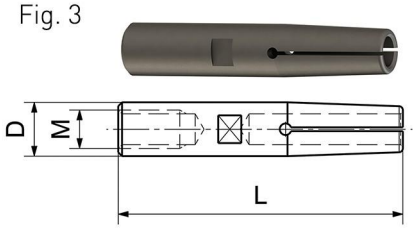
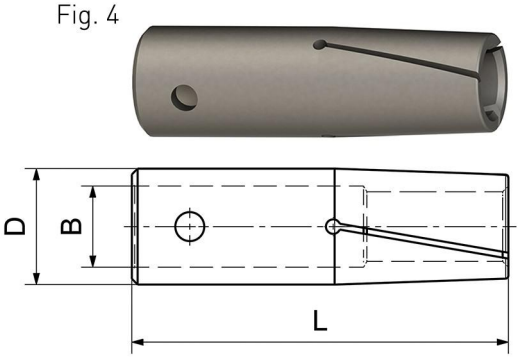



Fig. 4




| Typ | D | L | B | M | Fig. |
|---|---|---|---|---|---|
| | | | | | |
| V1027a-Ø | 5.00 | 22.00 | M3.00 | | 3 |
| V1031a-Ø | Mai 50 | 31.00 | M3.00 aus. | | 2 |
| V1028a-Ø | 7.00 | 22.00 | M4.00 | | 3 |
| V4007-Ø | 7.00 | 37.00 | M5.00 | | 3 |
| V1029a-Ø | 10.00 | 26.00 | M5.00 | | 1 |
| V4010-Ø | 10.00 | 40.00 | | 7.00 | 4 |
| V1122a-Ø | 12.00 | 26.00 | M5.00 | | 1 |
| V4012-Ø | 12.00 | 40.00 | | 8.00 | 4 |
| V1608-Ø | 15.00 | 35.00 | M6.00 | | 1 |
| V4015-Ø | 15.00 | 40.00 | | 11.00 | 4 |
| V1124a-Ø | 20.00 | 30.00 | M8.00x1.00 | | 1 |
| V4020-Ø | 20.00 | 65.00 | | 14.00 | 4 |

# 3.1.10 Spannhülsen für FMB, Traub, IEMCA, LNS, SAMECA

Fig. 1

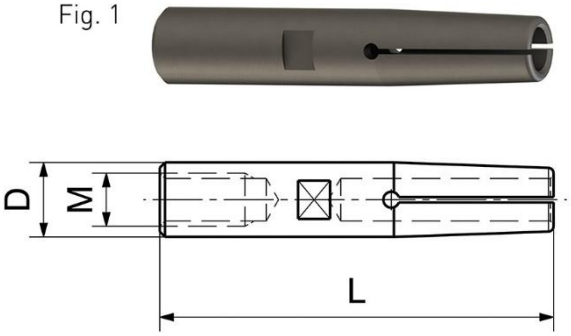
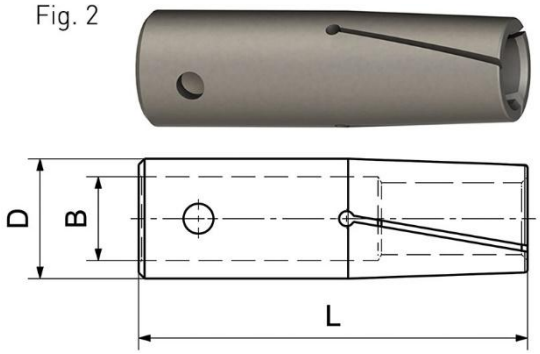


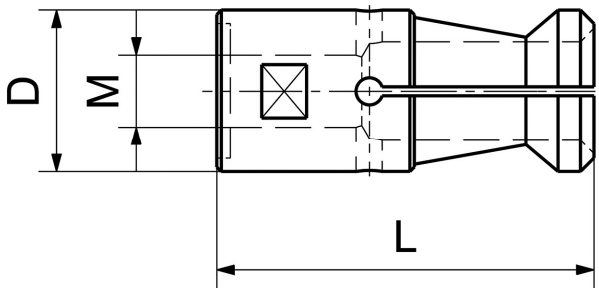

Fig. 2




| Typ | D | L | M | B | Bohrung | Fig. |
|---|---|---|---|---|---|---|
| | | | | | | |
| V4005-Ø | 5.00 | 37.00 | M4.00 | | 0.80 - 4.50 | 1 |
| V4007-Ø | 7.00 | 37.00 | M5.00 | | 0.80 - 6.00 | 1 |
| V4010-Ø | 10.00 | 40.00 | | 7.00 | 1.00 - 9.00 | 2 |
| V4011-Ø | 11.00 | 40.00 | | 7.00 | 9.50 - 10.00 | 2 |
| V4012-Ø | 12.00 | 40.00 | | 8.00 | 1.50 - 10.50 | 2 |
| V4013-Ø | 13.00 | 40.00 | | 8.00 | 2.00 - 12.00 | 2 |
| V4014-Ø | 14.00 | 40.00 | | 8.00 | 8.00 - 13.00 | 2 |
| V4015-Ø | 15.00 | 40.00 | | 11.00 | 2.00 - 13.50 | 2 |
| V4016-Ø | 16.00 | 40.00 | | 11.00 | 4.00 - 15.00 | 2 |
| V4018-Ø | 18.00 | 40.00 | | 11.00 | 3.00 - 17.00 | 2 |
| V4020-Ø | 20.00 | 65.00 | | 14.00 | 2.00 - 19.00 | 2 |
| V4021-Ø | 21.00 | 65.00 | | 14.00 | 18.00 - 20.00 | 2 |
| V4022-Ø | 22.00 | 65.00 | | 14.00 | 4.00 - 21.00 | 2 |
| V4024-Ø | 24.00 | 65.00 | | 20.00 | 16.00 - 23.00 | 2 |
| V4025-Ø | 25.00 | 65.00 | | 20.00 | 2.00 - 24.00 | 2 |
| V4028- Ø | 28.00 | 65.00 | | 20.00 | 3.00 - 27.00 | 2 |
| V4030-Ø | 30.00 | 65.00 | | 20.00 | 4.00 - 29.00 | 2 |
| V4032-Ø | 32.00 | 65.00 | | 20.00 | 3.00 - 31.00 | 2 |
| V4034-Ø | 34.00 | 65.00 | | 20.00 | 28.00 - 33.00 | 2 |
| V4036-Ø | 36.00 | 65.00 | | 20.00 | 4.00 - 35.00 | 2 |
| V4042-Ø | 42.00 | 65.00 | | 20.00 | 15.00 - 41.00 | 2 |
| V4052-Ø | 52.00 | 65.00 | | 20.00 | 40.00 - 51.00 | 2 |

## 3.1.11 Spannhülsen für IEMCA






| Typ | D | L | M |
|---|---|---|---|
| | | | |
| V110550-Ø | 5.50 | 37.00 | M4 x 0.50 |
| V110750-Ø | 7.50 | 40.00 | M5 x 0.50 |
| V111000-Ø | 10.00 | 40.00 | M6 x 0.75 |
| V111200-Ø | 12.00 | 42.00 | M7 x 0.75 |
| V111500-Ø | 15.00 | 42.00 | M8 x 1.00 |
| V111600-Ø | 16.00 | 42.00 | M8 x 1.00 |
| V111800-Ø | 18.00 | 42.00 | M8 x 1.00 |
| V112000-Ø | 20.00 | 59.00 | M10 x 1.00 |
| V112300-Ø | 23.00 | 59.00 | M10 x 1.00 |
| V112500-Ø | 25.00 | 59.00 | M10 x 1.00 |
| V113000-Ø | 30.00 | 65.00 | M10 x 1.00* |
| V113200-Ø | 32.00 | 65.00 | M10 x 1.00* |
| V113300-Ø | 33.00 | 65.00 | M10 x 1.00* |
| V113400-Ø | 34.00 | 65.00 | M25 x 1.50 |
| V113500-Ø | 35.00 | 65.00 | M25 x 1.50 |
| V113600-Ø | 36.00 | 65.00 | M25 x 1.50 |
| V114000-Ø | 40.00 | 70.00 | M25 x 1.50 |
| V114200-Ø | 42.00 | 70.00 | M25 x 1.50 |
| V114600-Ø | 46.00 | 72.00 | M25 x 1.50 |
| V115000-Ø | 50.00 | 80.00 | M25 x 1.50 |
| V115200-Ø | 52.00 | 80.00 | M25 x 1.50 |
| V115400-Ø | 54.00 | 80.00 | M25 x 1.50 |
| V115500-Ø | 55.00 | 80.00 | M25 x 1.50 |
| V115600-Ø | 56.00 | 80.00 | M25 x 1.50 |
| V115800-Ø | 58.00 | 80.00 | M25 x 1.50 |
| V116000-Ø | 60.00 | 80.00 | M25 x 1.50 |
| V116500-Ø | 65.00 | 80.00 | M25 x 1.50 |
| V117000-Ø | 70.00 | 80.00 | M25 x 1.50 |
| V117500-Ø | 75.00 | 80.00 | M25 x 1.50 |
| V118000-Ø | 80.00 | 80.00 | M25 x 1.50 |

## 3.1.12 Spannhülsen für CUCCHI

Fig. 1

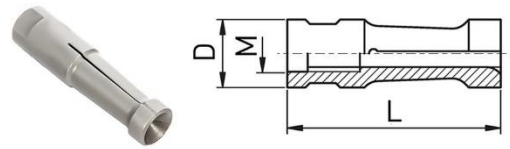



Fig. 3

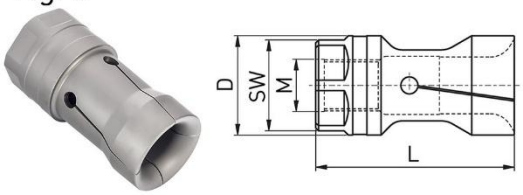
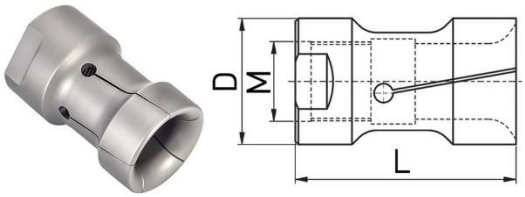



Fig. 2




Type L



Type LS



* = Linksgewinde

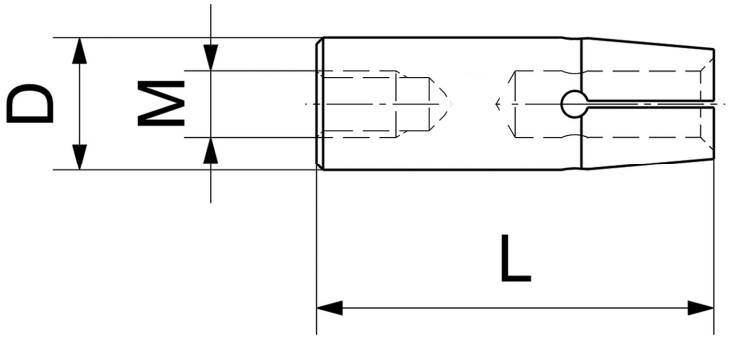
Fig. 2 & 3 sind auf Anfrage auch in "L" oder "LS" Ausführung Lieferbar

| Typ | D | L | M | SW | Bohrung von - bis | Fig. |
|---|---|---|---|---|---|---|
| | | | | | | |
| V211000-Ø | 10.00 | 50.00 | M6 x 0.75 | | 2.00 - 9.00 | 1 |
| V211200-Ø | 12.00 | 52.00 | M7 x 0.75 | | 3.00 - 11.00 | 1 |
| V211400-Ø | 14.00 | 52.00 | M8 x 1.00 | | 4.00 - 12.50 | 1 |
| V211500-Ø | 15.00 | 52.00 | M8 x 1.00 | | 4.00 - 14.00 | 1 |
| V211600-Ø | 16.00 | 52.00 | M8 x 1.00 | | 4.00 - 15.00 | 1 |
| V211800-Ø | 18.00 | 59.00 | M10 x 1.00 | | 4.00 - 17.00 | 1 |
| V212500-Ø | 25.00 | 59.00 | M14 x 1.00 | | 10.00 - 23.00 | 1 |
| V213000-Ø | 30.00 | 65.00 | M18 x 1.50 | | 8.00 - 28.00 | 1 |
| V222900-Ø | 29.00 | 80.00 | M17 x 1.00 | | 5.00 - 27.00 | 2 |
| V223000-Ø | 30.00 | 80.00 | M17 x 1.00 | | 5.00 - 28.00 | 2 |
| V223200-Ø | 32.00 | 80.00 | M25 x 1.50 | | 5.00 - 30.00 | 2 |
| V223400-Ø | 34.00 | 80.00 | M25 x 1.50 | | 20.00 - 32.00 | 2 |
| V223600-Ø | 36.00 | 80.00 | M25 x 1.50 | | 20.00 - 34.00 | 2 |
| V223800-Ø | 38.00 | 80.00 | M25 x 1.50 | | 20.00 - 36.00 | 2 |
| V224000-Ø | 40.00 | 80.00 | M25 x 1.50 | | 10.00 - 38.00 | 2 |
| V224200-Ø | 42.00 | 80.00 | M25 x 1.50 | | 10.00 - 40.00 | 2 |
| V224400-Ø | 44.00 | 80.00 | M25 x 1.50 | | 38.00 - 42.00 | 2 |
| V224600-Ø | 46.00 | 80.00 | M25 x 1.50 | | 39.00 - 44.00 | 2 |
| V224800-Ø | 48.00 | 80.00 | M25 x 1.50 | | 40.00 - 46.00 | 2 |
| V231900-Ø | 19.00 | 60.00 | M10 x 1.00 * | 17 | 4.00 - 17.00 | 3 |
| V232000-Ø | 20.00 | 60.00 | M10 x 1.00 * | 17 | 8.00 - 18.50 | 3 |
| V232300-Ø | 23.00 | 60.00 | M14 x 1.00 * | 21 | 4.00 - 21.00 | 3 |
| V232400-Ø | 24.00 | 60.00 | M14 x 1.00 * | 22 | 21.00 - 22.00 | 3 |
| V232500-Ø | 25.00 | 60.00 | M14 x 1.00 * | 22 | 6.00 - 23.50 | 3 |
| V232800-Ø | 28.00 | 65.00 | M18 x 1.50 * | 24 | 21.00 - 24.00 | 3 |
| V232900-Ø | 29.00 | 65.00 | M18 x 1.50 * | 27 | 5.00 - 27.50 | 3 |
| V233000-Ø | 30.00 | 65.00 | M18 x 1.50 * | 28 | 18.00 - 28.00 | 3 |
| V233200-Ø | 32.00 | 65.00 | M18 x 1.50 * | 28 | 20.00 - 30.00 | 3 |
| V233300-Ø | 33.00 | 70.00 | M18 x 1.50 * | 30 | 25.00 - 31.00 | 3 |
| V233400-Ø | 34.00 | 70.00 | M18 x 1.50 * | 30 | 8.00 - 32.50 | 3 |
| V233500-Ø | 35.00 | 70.00 | M18 x 1.50 * | 32 | 10.00 - 33.00 | 3 |
| V233700-Ø | 37.00 | 70.00 | M25 x 1.50 * | 32 | 10.00 - 35.00 | 3 |
| V233780-Ø | 37.80 | 70.00 | M25 X 1.50 * | 32 | 30.00 - 36.00 | 3 |
| V233900-Ø | 39.00 | 70.00 | M25 x 1.50 * | 36 | 16.00 - 37.00 | 3 |
| V234000-Ø | 40.00 | 70.00 | M25 x 1.50 * | 36 | 20.00 - 38.00 | 3 |
| V234100-Ø | 41.00 | 70.00 | M25 x 1.50 * | 36 | 19.00 - 40.00 | 3 |

| Fortsetzung Spannhülsen CUCCHI | | | | | | |
|---|---|---|---|---|---|---|
| Typ | D | L | M | SW | Bohrung von - bis | Fig. |
| | | | | | | |
| V234200-Ø | 42.00 | 70.00 | M25 x 1.50 * | 36 | 20.00 - 40.00 | 3 |
| V234280-Ø | 42.80 | 70.00 | M25 x 1.50 * | 36 | 20.00 - 41.00 | 3 |
| V234400-Ø | 44.00 | 70.00 | M25 x 1.50 * | 36 | 20.00 - 42.00 | 3 |
| V234700-Ø | 47.00 | 70.00 | M30 x 1.50 * | 40 | 10.00 - 45.00 | 3 |
| V234970-Ø | 49.70 | 70.00 | M30 x 1.50 * | 50 | 20.00 - 48.00 | 3 |
| V235500-Ø | 55.00 | 80.00 | M30 x 1.50 * | 50 | 20.00 - 53.00 | 3 |
| V235900-Ø | 59.00 | 80.00 | M30 x 1.50 * | 56 | 19.00 - 58.00 | 3 |
| V236500-Ø | 65.00 | 80.00 | M30 x 1.50 * | 60 | 58.00 - 62.00 | 3 |
| V237000-Ø | 70.00 | 80.00 | M30 x 1.50 * | - | 60.00 - 67.00 | 3 |
| V237500-Ø | 75.00 | 80.00 | M30 x 1.50 * | - | 65.00 - 72.00 | 3 |

## 3.1.13 Spannhülsen für LNS Tryton





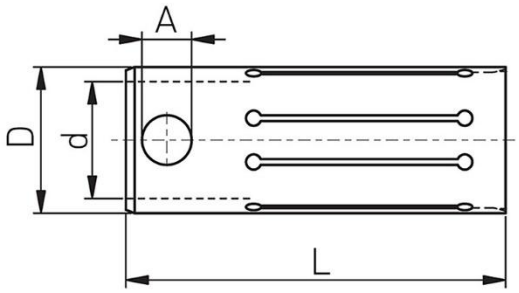

| Typ | D | L | M |
|---|---|---|---|
| | | | |
| V2000-Ø | 6.00 | 30.00 | M4 |
| V2001-Ø | 7.00 | 30.00 | M4 |
| V2002-Ø | 10.00 | 30.00 | M5 |
| V2003-Ø | 12.00 | 30.00 | M6 |

## 3.1.14 Longlife Spannhülsen mit Querloch










**"Longlife" Spannhülsen sind in 2 Ausführungen lieferbar**

- Typ L (geeignet auch für 4-Kt, 6-Kt)
- Typ LS

| Typ L | Typ LS | D | d | L | Bohrung von - bis | 4-Kt / 6-Kt von - bis |
|---|---|---|---|---|---|---|
| | | | | | | |
| L4005-Ø | LS4005-Ø | 5.00 | M4 | 40.00 | 3.50 - 4.30 | |
| L4007-Ø | LS4007-Ø | 7.00 | M5 | 40.00 | 4.30 - 6.00 | |
| L4007R-Ø | LS4007R-Ø | 7.50 | M5 | 40.00 | 6.00 - 7.00 | |
| L4010-Ø | LS4010-Ø | 10.00 | 7.00 | 40.00 | 6.00 - 9.00 | 6.00 - 8.00 |
| L4011-Ø | LS4011-Ø | 11.00 | 7.00 | 40.00 | 9.00 - 10.00 | 8.00 |
| L4012-Ø | LS4012-Ø | 12.00 | 8.00 | 40.00 | 8.00 - 11.00 | 7.00 - 9.00 |
| L4013-Ø | LS4013-Ø | 13.00 | 8.00 | 40.00 | 11.00 - 12.00 | 10.00 |
| L4015-Ø | LS4015-Ø | 15.00 | 11.00 | 40.00 | 10.00 - 14.00 | 9.00 - 12.00 |
| L4016-Ø | LS4016-Ø | 16.00 | 11.00 | 40.00 | 13.00 - 15.00 | 12.00 - 13.00 |
| L4017-Ø | LS4017-Ø | 17.00 | 11.00 | 40.00 | 14.00 - 16.00 | 13.00 |
| L4018-Ø | LS4018-Ø | 18.00 | 11.00 | 40.00 | 12.00 - 17.00 | 11.00 - 14.00 |
| L4019-Ø | LS4019-Ø | 19.00 | 11.00 | 40.00 | 17.00 - 18.00 | 15.00 |
| L4020-Ø | LS4020-Ø | 20.00 | 14.00 | 65.00 | 14.00 - 19.00 | 13.00 - 16.00 |
| L4021-Ø | LS4021-Ø | 21.00 | 14.00 | 65.00 | 18.00 - 20.00 | 16.00 - 17.00 |
| L4022-Ø | LS4022-Ø | 22.00 | 14.00 | 65.00 | 16.50 - 21.00 | 15.00 - 18.00 |
| L4023-Ø | LS4023-Ø | 23.00 | 14.00 | 65.00 | 18.00 - 22.00 | 16.00 - 19.00 |
| L4024-Ø | LS4023-Ø | 24.00 | 20.00 | 65.00 | 20.00 - 23.00 | 18.00 - 20.00 |
| L4025-Ø | LS4025-Ø | 25.00 | 20.00 | 65.00 | 16.00 - 24.00 | 14.00 - 20.00 |
| L4026-Ø | LS4026-Ø | 26.00 | 20.00 | 65.00 | 23.00 - 25.00 | 20.00 - 21.00 |
| L4027-Ø | LS4027-Ø | 27.00 | 20.00 | 65.00 | 24.00 - 26.00 | 21.00 - 22.00 |
| L4028-Ø | LS4028-Ø | 28.00 | 20.00 | 65.00 | 20.00 - 27.00 | 18.00 - 23.00 |
| L4030-Ø | LS4030-Ø | 30.00 | 20.00 | 65.00 | 22.00 - 29.00 | 20.00 - 25.00 |
| L4031-Ø | LS4031-Ø | 31.00 | 20.00 | 65.00 | 29.50 - 30.00 | 26.00 |
| L4032-Ø | LS4032-Ø | 32.00 | 20.00 | 65.00 | 20.00 - 31.00 | 18.00 - 27.00 |
| L4033-Ø | LS4033-Ø | 33.00 | 20.00 | 65.00 | 30.00 - 32.00 | 27.00 |
| L4034-Ø | LS4034-Ø | 34.00 | 20.00 | 65.00 | 28.00 - 33.00 | 25.00 - 28.00 |
| L4036-Ø | LS4036-Ø | 36.00 | 20.00 | 65.00 | 30.00 - 35.00 | 27.00 - 30.00 |
| L4039-Ø | LS4039-Ø | 39.00 | 20.00 | 65.00 | 36.00 - 38.00 | 32.00 - 33.00 |
| L4042-Ø | LS4042-Ø | 42.00 | 20.00 | 69.00 | 38.50 - 41.00 | 34.00 - 35.00 |
| L4052-Ø | LS4052-Ø | 52.00 | 20.00 | 70.00 | 47.00 - 50.00 | 41.00 - 43.00 |

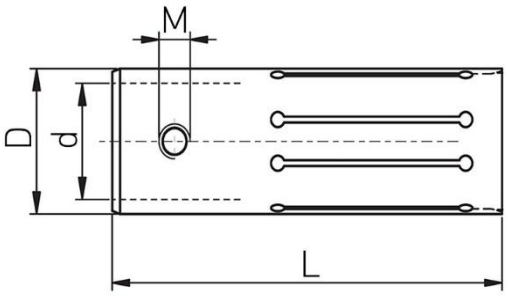
## 3.1.15 Longlife Spannhülsen mit Schraubenbefestigung

Type L



Type LS





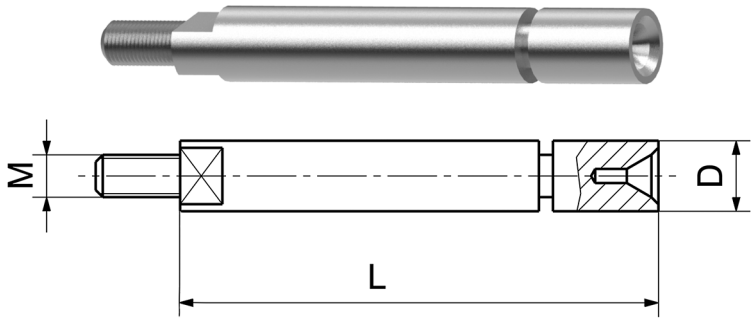

**"Longlife" Spannhülsen sind in 2 Ausführungen lieferbar**

- Typ L (geeignet auch für 4-Kt, 6-Kt)
- Typ LS

| Typ L | Typ LS | D | d | L | Bohrung von - bis | 4-Kt / 6-Kt von - bis |
|---|---|---|---|---|---|---|
| | | | | | | |
| L4025TD-Ø | LS4025TD-Ø | 25.00 | 20.00 | 90.00 | 15.00 - 24.00 | 13.00 - 20.00 |
| L4030TD-Ø | LS4030TD-Ø | 30.00 | 20.00 | 90.00 | 20.00 - 29.00 | 18.00 - 25.00 |
| L4032TD-Ø | LS4032TD-Ø | 32.00 | 20.00 | 90.00 | 22.00 - 31.00 | 19.00 - 26.00 |
| L4033TD-Ø | LS4033TD-Ø | 33.00 | 20.00 | 90.00 | 30.00 - 32.00 | 26.00 - 27.00 |
| L4034TD-Ø | LS4033TD-Ø | 34.00 | 20.00 | 90.00 | 25.00 - 33.00 | 22.00 - 28.00 |
| L4036TD-Ø | LS4036TD-Ø | 36.00 | 20.00 | 90.00 | 28.00 - 35.00 | 25.00 - 30.00 |
| L4038TD-Ø | LS4038TD-Ø | 38.00 | 20.00 | 90.00 | 30.00 - 37.00 | 27.00 - 32.00 |
| L4040TD-Ø | LS4040TD-Ø | 40.00 | 20.00 | 90.00 | 35.00 - 39.00 | 31.00 - 33.00 |
| L4042TD-Ø | LS4042TD-Ø | 42.00 | 20.00 | 90.00 | 30.00 - 41.00 | 27.00 - 35.00 |
| L4043TD-Ø | LS4043TD-Ø | 43.00 | 20.00 | 90.00 | 41.50 - 42.00 | 36.00 |
| L4045TD-Ø | LS4045TD-Ø | 45.00 | 20.00 | 90.00 | 40.00 - 44.00 | 35.00 - 38.00 |
| L4050TD-Ø | LS4050TD-Ø | 50.00 | 20.00 | 90.00 | 40.00 - 49.00 | 35.00 - 42.00 |
| L4055TD-Ø | LS4055TD-Ø | 55.00 | 20.00 | 90.00 | 45.00 - 54.00 | 40.00 - 46.00 |
| L4060TD-Ø | LS4060TD-Ø | 60.00 | 20.00 | 90.00 | 50.00 - 59.00 | 44.00 - 51.00 |
| L4063TD-Ø | LS4063TD-Ø | 63.00 | 20.00 | 90.00 | 50.00 - 62.00 | 44.00 - 53.00 |
| L4065TD-Ø | LS4065TD-Ø | 65.00 | 20.00 | 90.00 | 53.00 - 64.00 | 46.00 - 55.00 |
| L4070TD-Ø | LS4070TD-Ø | 70.00 | 20.00 | 90.00 | 65.00 - 68.00 | - |
| L4073TD-Ø | LS4073TD-Ø | 73.00 | 20.00/35.00 | 90.00 | 68.00 - 71.00 | - |
| L4075TD-Ø | LS4075TD-Ø | 75.00 | 20.00/35.00 | 90.00 | 70.00 - 73.00 | - |
| L4080TD-Ø | LS4080TD-Ø | 80.00 | 35.00 | 90.00 | 75.00 - 78.00 | - |

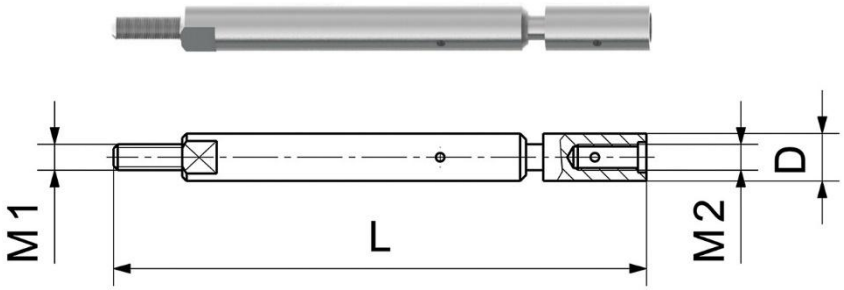
# 3.2 Drehende Endstücke

## 3.2.1 Drehende Endstücke



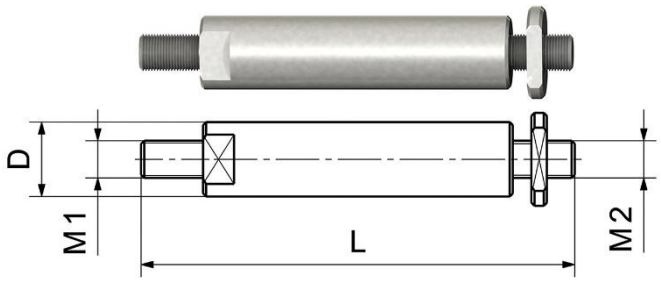

| Typ | D | L | M |
|---|---|---|---|
| | | | |
| V600 | 4.50 | 30.00 | M3.50 |
| V601 | 7.00 | 42.00 | M5.00 |
| V602 | 10.00 | 49.00 | M6.00 |
| V603 | 12.00 | 49.00 | M6.00 |
| V604 | 14.00 | 80.00 | M8.00 |
| V605 | 16.00 | 80.00 | M10.00 |
| V606 | 20.00 | 88.00 | M10.00 |
| V607 | 25.00 | 108.00 | M12.00 |
| V608 | 30.00 | 108.00 | M14.00 |
| V609 | 32.00 | 108.00 | M16.00 |
| V610 | 36.00 | 108.00 | M16.00 |

## 3.2.2 Drehende Endstücke für Super-Télébar (30 Rohre)




| Typ | D | L | M1 | M2 | Lademagazine |
|---|---|---|---|---|---|
| | | | | | |
| V1030 | 4.50 | 62.00 | M3.00 | M3.00 | 30 Rohre |
| V1031 | 5.50 | 62.00 | M3.00 | M3.00 | 30 Rohre |

## 3.2.3 Drehende Endstücke für Super-Télébar (24 Rohre und Barboy)




| Typ | D | L | M1 | M2 |
|---|---|---|---|---|
| | | | | |
| V1032 | 7.00 | 63.00 | M5.00 | M4.00 |
| V1033 | 7.50 | 63.00 | M5.00 | M4.00 |
| V1034 | 8.50 | 63.00 | M5.00 | M5.00 |
| V1035 | 10.50 | 70.00 | M6.00 | M6.00 |
| V1037 | 12.00 | 70.00 | M6.00 | M6.00 |
| V1038 | 13.00 | 70.00 | M6.00 | M6.00 |
| V1100 | 15.00 | 92.00 | M7.00 | M6.00 |
| V1101 | 16.00 | 92.00 | M7.00 | M8.00 |
| V1102 | 20.00 | 92.00 | M7.00 | M8.00 |

## 3.2.4 Drehende Endstücke für Multibar Bechler

Fig. 1

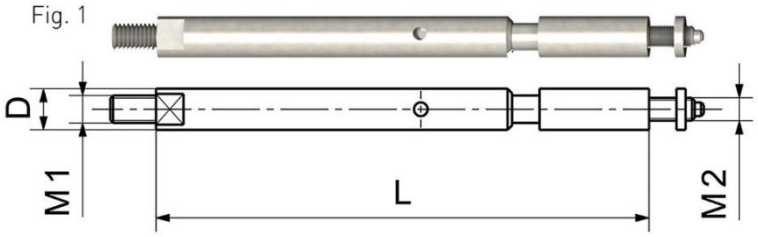
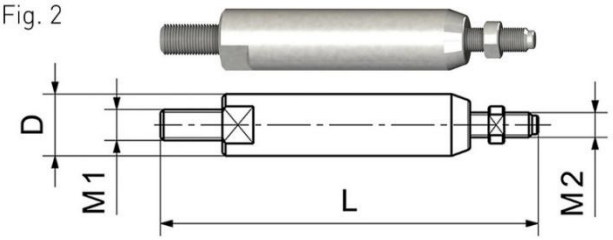
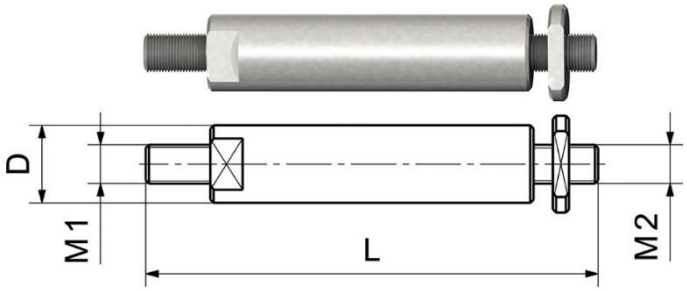



Fig. 2




| Typ | D | L | M1 | M2 | Fig. |
|---|---|---|---|---|---|
| | | | | | |
| V1026 | 4.50 | 54.00 | M3.00 | M2.50 | 1 |
| V1027 | 5.00 | 58.50 | M3.50 | M3.00 | 1 |
| V1106 | 5.50 | 57.00 | M4.00 | M3.50 | 1 |
| V1028-60 | 7.00 | 60.00 | M5.00 | M4.00 | 2 |
| V1028-83 | 7.00 | 83.00 | M5.00 | M4.00 | 2 |
| V1029-86 | 10.00 | 86.00 | M6.00 | M5.00 | 2 |
| V1029-102 | 10.00 | 102.00 | M6.00 | M5.00 | 2 |
| V907 | 12.00 | 90.00 | M8.00 | M5.00 | 2 |
| V1110-122 | 12.00 | 122.00 | M8.00 | M5.00 | 2 |
| V1117 | 16.00 | 100.00 | M12.00 | M6.00 | 2 |
| V1118 | 20.00 | 104.00 | M16.00 | M8.00x1.00 | 2 |

## 3.2.5 Drehende Endstücke für CADDIE AS-14 / SAS-16




| Typ | D | L | M1 | M2 |
|---|---|---|---|---|
| | | | | |
| V1111 | 8.50 | 63.00 | M5.00 | M5.00 |
| V1112 | 9.50 | 72.00 | M6.00 | M6.00 |
| V1103 | 10.50 | 72.00 | M6.00 | M6.00 |
| V1104 | 12.50 | 72.00 | M6.00 | M6.00 |
| V1105 | 15.00 | 92.00 | M7.00 | M6.00 |
| V1113 | 16.50 | 92.00 | M8.00 | M8.00 |

## 3.2.6 Drehende Endstücke für Robobar

Fig. 1

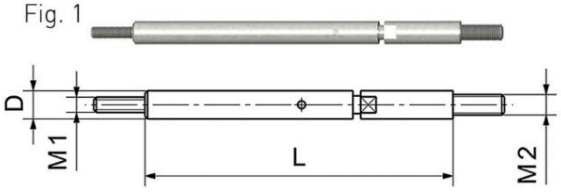



Fig. 3

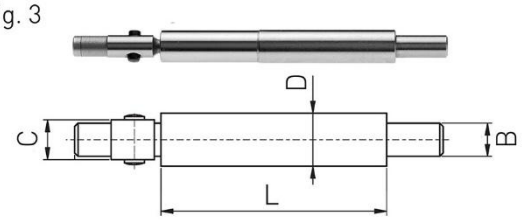



Fig. 2

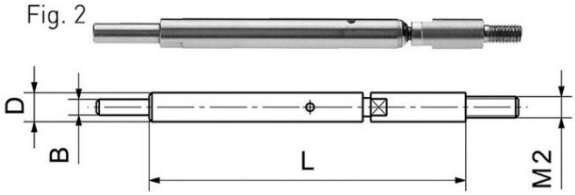
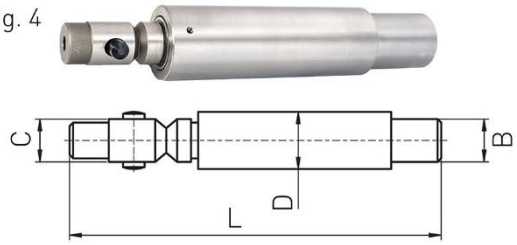


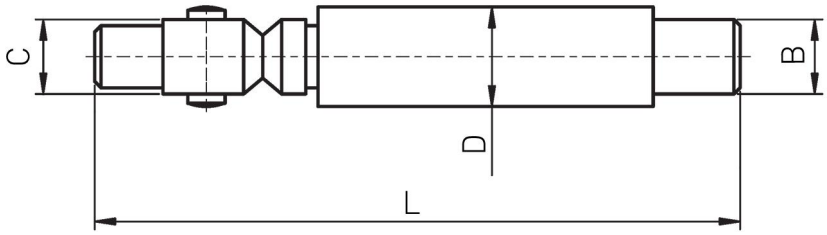

Fig. 4




| Typ | D | L | M1 | M | B | C | Fig. |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| ROB-5.50 | 5.50 | 78.00 | M3.00 | M4.00 | - | - | 1 |
| ROB-7.50 | 7.50 | 78.00 | - | M5.00 | 5.00 | - | 2 |
| ROB-10.50 | 10.50 | 73.00 | - | - | 7.00 | 7.00 | 3 |
| ROB-12.50 | 12.00 | 73.00 | - | - | 8.00 | 8.00 | 3 |
| ROB-16.00 | 16.00 | 116.00 | - | - | 10.00 | 11.00 | 3 |
| ROB-18.00 | 18.00 | 116.00 | - | - | 10.00 | 11.00 | 3 |
| ROB-20.50 | 20.50 | 110.00 | - | - | 14.00 | 14.00 | 3 |
| ROB-25.00 | 25.00 | 114.00 | - | - | 20.00 | 20.00 | 3 |
| ROB-26.00 | 26.00 | 114.00 | - | - | 20.00 | 20.00 | 3 |
| ROB-30.00 | 30.00 | 197.00 | - | - | 25.00 | 20.00 | 4 |
| ROB-32.00 | 32.00 | 197.00 | - | - | 25.00 | 20.00 | 4 |
| ROB-36.00 | 36.00 | 207.00 | - | - | 30.00 | 20.00 | 4 |

## 3.2.7 Drehende Endstücke für FMB, LNS, Breuning, Irco






| Typ | D | L | B | C |
|---|---|---|---|---|
| | | | | |
| S9025-197 | 25.00 | 197.00 | 20.00 | 20.00 |
| S9030-197 | 30.00 | 197.00 | 25.00 | 20.00 |
| S9032-197 | 32.00 | 197.00 | 25.00 | 20.00 |
| S9034-197 | 34.00 | 197.00 | 30.00 | 20.00 |
| S9036-197 | 36.00 | 207.00 | 30.00 | 20.00 |
| S9038-197 | 38.00 | 207.00 | 30.00 | 20.00 |
| S9040-207 | 40.00 | 207.00 | 33.00 | 20.00 |
| S9042-207 | 42.00 | 207.00 | 33.00 | 20.00 |
| S9045-207 | 45.00 | 207.00 | 33.00 | 20.00 |
| S9050-207 | 50.00 | 207.00 | 42.00 | 20.00 |
| S9060-232 | 60.00 | 232.00 | 51.00 | 20.00 |
| S9063-232 | 63.00 | 232.00 | 51.00 | 20.00 |
| S9065-232 | 65.00 | 232.00 | 51.00 | 20.00 |
| S9070-232 | 70.00 | 232.00 | 51.00 | 20.00 |
| S9080-232 | 80.00 | - | 51.00 | 20.00 |

## 3.2.8 Drehende Endstücke für Bechet

Fig. 1

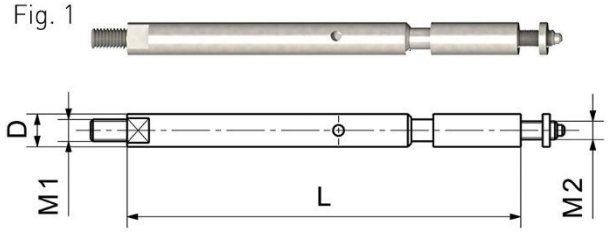



Fig. 3

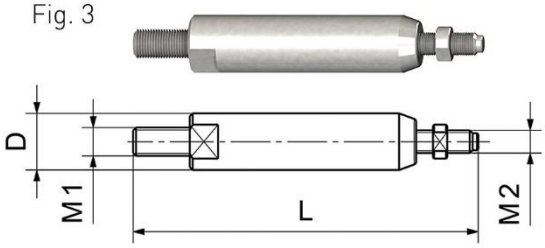



Fig. 2

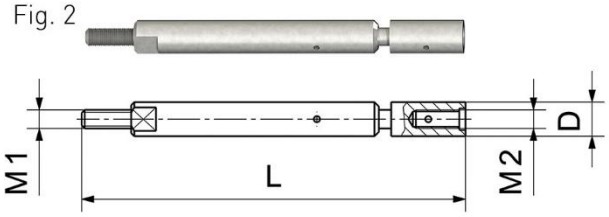
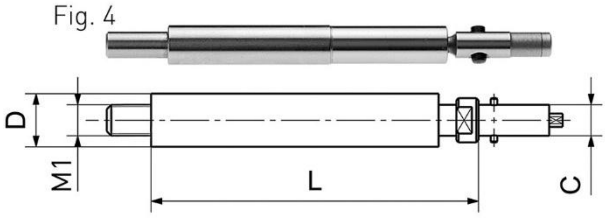



Fig. 4




| Typ | D | L | M1 | M2 | C | Fig. |
|---|---|---|---|---|---|---|
| | | | | | | |
| V1027 | 5.00 | 58.50 | M3.50 | M3.00 | - | 1 |
| V1031 | 5.50 | 62.00 | M3.00 | M3.00 | - | 2 |
| V1506 | 7.00 | 78.50 | M5.00 | M5.00 | - | 1 |
| V1028-83 | 7.00 | 83.00 | M5.00 | M4.00 | - | 3 |
| V1029-102 | 10.00 | 102.00 | M6.00 | M5.00 | - | 3 |
| V1507 | 10.00 | 116.00 | M7.00 | - | 7.00 | 4 |
| V907 | 12.00 | 90.00 | M8.00 | M5.00 | - | 3 |
| V1508 | 12.00 | 116.00 | M8.00 | - | 8.00 | 4 |
| V1110-122 | 12.00 | 122.00 | M8.00 | M8.00 | - | 3 |
| V1100 | 15.00 | 92.00 | M7.00 | M6.00 | - | 3 |
| V1509 | 15.00 | 116.00 | M10.00 | - | 11.00 | 4 |
| V1118 | 20.00 | 104.00 | M7.00 | M8.00 | - | 3 |
| V1510 | 20.00 | 148.00 | M14.00 | - | 14.00 | 4 |
| S9070-232 | 70.00 | 232.00 | 51.00 | 20.00 | - | - |
| S9080-232 | 80.00 | - | 51.00 | 20.00 | - | - |

## 3.2.9 Drehende Endstücke für FMB, Traub, IEMCA, LNS, SAMECA

Fig. 1

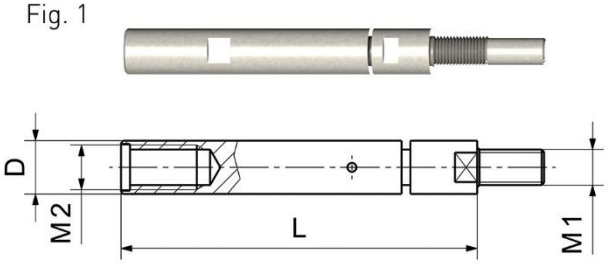



Fig. 2

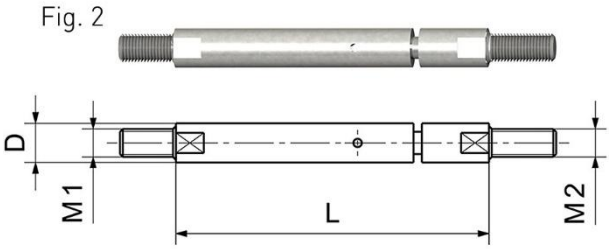
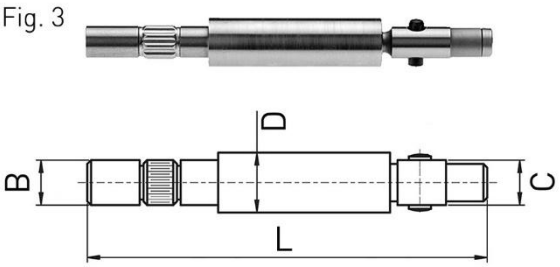
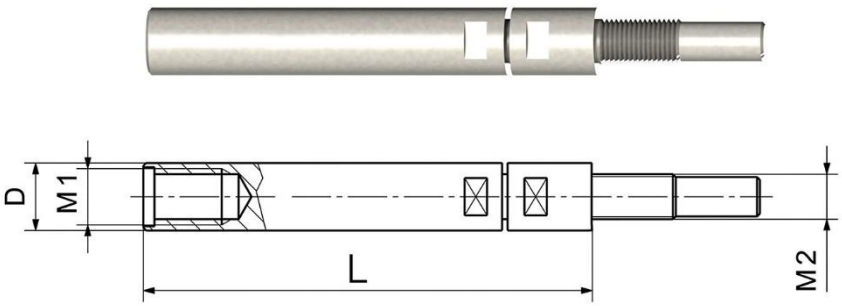



Fig. 3




| Typ | D | L | M1 | M | B | C | Fig. |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| S9005A | 5.50 | 68.00 | M4.00 | 4.50 | - | - | 1 |
| S9005B | 5.50 | 73.00 | M4.00 | M4.00 | - | - | 2 |
| S9007A | 7.00 | 79.00 | M5.00 | M5.00 | - | - | 2 |
| S9007B | 7.50 | 79.00 | M5.00 | 6.50 | - | - | 1 |
| S9010 | 10.50 | 101.00 | - | - | 8.00 | 7.00 | 3 |
| S9012 | 12.00 | 101.00 | - | - | 8.00 | 8.00 | 3 |
| S9015 | 15.00 | 101.00 | - | - | 12.00 | 11.00 | 3 |
| S9018 | 18.00 | 101.00 | - | - | 12.00 | 11.00 | 3 |
| S9020 | 20.00 | 117.00 | - | - | 17.00 | 14.00 | 3 |
| S9025 | 25.00 | 120.00 | - | - | 20.00 | 20.00 | 3 |

## 3.2.10 Drehende Endstücke für IEMCA




| Typ | D | L | M1 | M2 |
|---|---|---|---|---|
| | | | | |
| V100550 | 5.50 | 69.00 | - | M4 |
| V100750 | 7.50 | 126.00 | M6 x 0.75 | M5 x 0.50 |
| V101000 | 10.00 | 113.00 | M8 x 1.00 | M6 x 0.75 |
| V101200 | 12.00 | 116.00 | M10 x 1.00 | M7 x 0.75 |
| V101500 | 15.00 | 121.00 | M12 x 1.50 | M8 x 1.00 |
| V102000 | 20.00 | 133.00 | M14 x 1.50 | M10 x 1.00 |
| V102500 | 25.00 | 133.00 | M14 x 1.50 | M10 x 1.00 |
| V103000 | 30.00 | 135.00 | M14 x 1.50 | M10 x 1.00 |

## 3.2.11 Drehende Endstücke für CUCCHI

Fig. 1

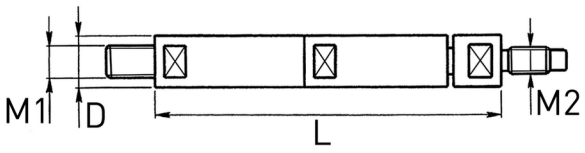
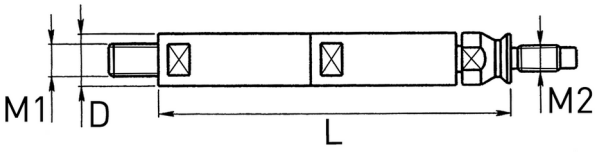



Fig. 2




* = Linksgewinde

| yp | D | L | M1 | M2 | Fig. |
|---|---|---|---|---|---|
| | | | | | |
| V201000 | 10.00 | 107.00 | M7 x 1.00 | M6 x 0.75 | 1 |
| V201200 | 12.00 | 107.00 | M8 x 1.25 | M7 x 0.75 | 1 |
| V201400 | 14.00 | 107.00 | M10 x 1.50 | M8 x 1.00 | 1 |
| V201600 | 16.00 | 107.00 | M10 x 1.50 | M8 x 1.00 | 1 |
| V201900 | 19.00 | 118.00 | M12 x 1.75 | M10 x 1.00 | 1 |
| V201900-L-v1 | 19.00 | 100.00 | M17 x 1.00 * | M10 x 1.00 * | 1 |
| V201900-L-v2 | 19.00 | 100.00 | M17 x 1.00 * | M14 x 1.50 * | 1 |
| V202400-L-v1 | 24.00 | 100.00 | M20 x 1.50 * | M14 x 1.00 * | 1 |
| V202500 | 25.00 | 118.00 | M20 x 1.50 | M14 x 1.00 | 1 |
| V202930-L-v1 | 29.30 | 121.00 | M26 x 1.50 * | M18 x 1.50 * | 1 |
| V202930-L-v2 | 29.30 | 121.00 | M26 x 1.50 * | M18 x 1.50 * | 2 |
| V202930-L-v3 | 29.30 | 121.00 | M26 x 1.50 * | M26 x 1.50 * | 1 |
| V203000 | 30.00 | 123.00 | M24 x 1.50 | M18 x 1.50 | 1 |
| V203800-L-v1 | 38.00 | 109.00 | M30 x 1.50 * | M30 x 1.50 * | 1 |
| V203800-L-v2 | 38.00 | 109.00 | M30 x 1.50 * | M30 x 1.50 * | 1 |
| V204000 | 40.00 | 61.00 | M28 x 1.50 | M25 x 1.50 | 1 |

## 3.2.12 Drehende Endstücke LNS Minisprint und Express

Fig. 1

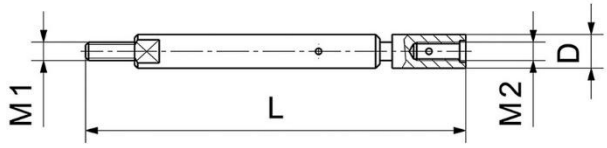



Fig. 3

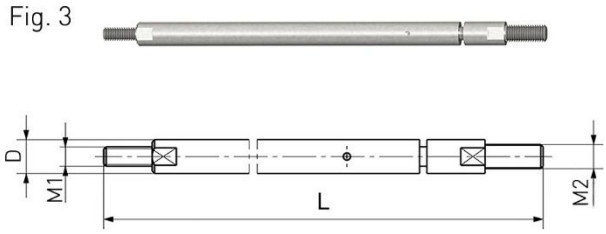



Fig. 2

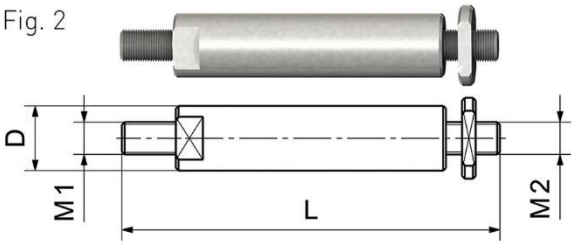
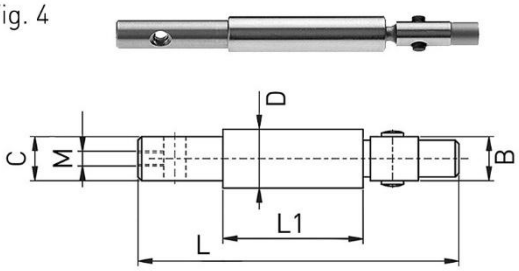



Fig. 4



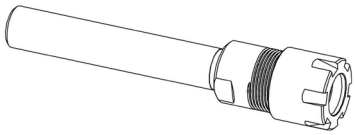

| Typ | D | L | M | M1 | M2 | L1 | B | C | Fig. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| V1031 | 5.50 | 62.00 | - | M3.00 | M3.00 | - | - | - | 1 |
| V1032 | 7.00 | 63.00 | - | M5.00 | M4.00 | - | - | - | 2 |
| LNS7 | 7.00 | 131.00 | - | M4.00 | M5.00 | - | - | - | 3 |
| LNS10 | 10.00 | 95.00 | M4.00 | - | | 42.00 | 7.00 | 8.00 | 4 |
| V1029-102 | 10.00 | 102.00 | - | M6.00 | M5.00 | - | - | - | 2 |
| V1037 | 12.00 | 70.00 | - | M6.00 | M6.00 | - | - | - | 2 |
| LNS12 | 12.00 | 95.00 | - | - | - | 42.00 | 8.00 | 8.00 | 4 |
| LNS15 | 15.00 | 96.00 | M5.00 | - | - | 42.00 | 11.00 | 12.00 | 4 |
| LNS18 | 18.00 | 96.00 | - | - | - | 42.00 | 11.00 | 12.00 | 4 |
| LNS20 | 20.00 | 111.00 | M8.00 | - | - | 46.00 | 14.00 | 17.00 | 4 |
| LNS25 | 25.00 | 115.50 | M8.00 | - | - | 48.00 | 20.00 | 20.00 | 4 |
| LNS36 | 36.00 | 198.00 | - | - | - | | 20.00 | 30.00 | 4 |
| LNS50 | 50.00 | 208.00 | - | - | - | | 20.00 | 42.00 | 4 |

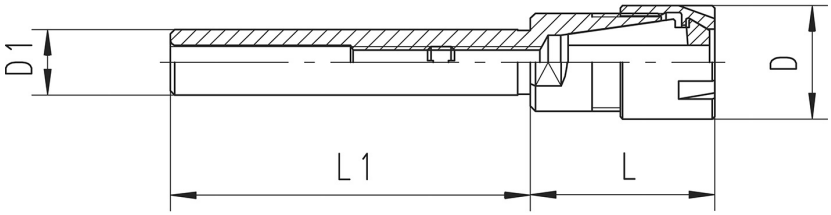
# 4 ZANGENAUFNAHMEN + ZUBEHÖR



# 4.1 Zylindrische Zangenaufnahmen

## 4.1.1 Standard Zangenaufnahmen ER / ESX 8 bis 40



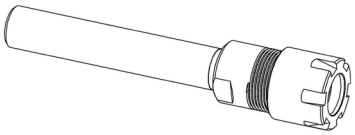


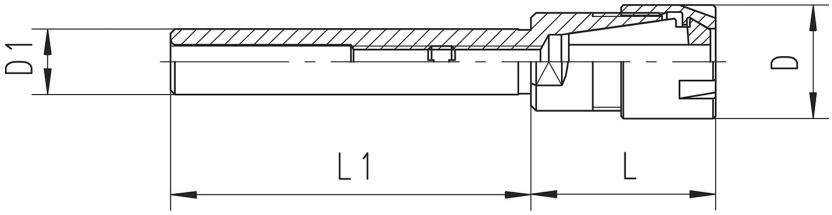

| Typ | D1 h6 | L1 | L | D | Mutter | Gewinde | |
|---|---|---|---|---|---|---|---|
| ER 8 / ESX 9 | | | | | | | |
| 61-9201 (*) | 8.00 | 23.00 | 18.00 | 15.00 | 61-9730 | M11 x 0.75 | SCHAUBLIN |
| 2608.20850 | 8.00 | 80.00 | 26.00 | 12.00 | enthalten | - | REGO-FIX |
| 2609.20841 | 9.52 (3/8") | 70.00 | 23.00 | 12.00 | enthalten | - | REGO-FIX |
| 61-9200 (*) | 10.00 | 14.50 | 17.50 | 15.00 | 61-9730 | M11 x 0.75 | SCHAUBLIN |
| 2612.20850 | 12.00 | 80.00 | 17.00 | 12.00 | enthalten | - | REGO-FIX |
| 61-9220 (*) | 12.00 | 100.00 | 17.00 | 13.50 | 61-9710 | M10 x 0.75 | SCHAUBLIN |
| ER 11 / ESX 12 | | | | | | | |
| 2606.21120 | 6.00 | 45.00 | 26.50 | 16.00 | enthalten | - | REGO-FIX |
| 61-12209 | 6.00 | 45.00 | 28.20 | 16.70 | 61-12710 | M13 x 0.75 | SCHAUBLIN |
| 2607.21120 | 7.00 | 45.00 | 26.50 | 16.00 | enthalten | - | REGO-FIX |
| 61-12207 | 7.00 | 45.00 | 28.20 | 16.70 | 61-12710 | M13 x 0.75 | SCHAUBLIN |
| 2608.21130 | 8.00 | 56.00 | 26.50 | 16.00 | enthalten | - | REGO-FIX |
| 61-12206 | 8.00 | 56.00 | 28.20 | 16.70 | 61-12710 | M13 x 0.75 | SCHAUBLIN |
| 2613.11141 | 12.70 (1/2") | 70.00 | 28.50 | 19.00 | enthalten | - | REGO-FIX |
| 2613.21191 | 12.70 (1/2") | 140.00 | 29.50 | 16.00 | enthalten | - | REGO-FIX |
| 61-12200 (*) | 14.00 | 25.00 | 22.00 | 19.00 | 61-12730 | M14 x 0.75 | SCHAUBLIN |
| 61-12204 (*) | 14.00 | 60.00 | 23.20 | 16.70 | 61-12710 | M13 x 0.75 | SCHAUBLIN |
| 2616.21191 | 15.87 (5/8") | 150.00 | 22.50 | 16.00 | enthalten | - | REGO-FIX |
| 61-12205 | 16.00 | 100.00 | 20.20 | 19.00 | 61-12730 | M14 x 0.75 | SCHAUBLIN |
| 2616.21190 | 16.00 | 150.00 | 21.00 | 16.00 | enthalten | - | REGO-FIX |
| 61-12223 (*) | 16.00 | 151.00 | 23.20 | 16.70 | 61-12710 | M13 x 0.75 | SCHAUBLIN |
| 61-12201 | 20.00 | 89.00 | 20.20 | 19.00 | 61-12730 | M14 x 0.75 | SCHAUBLIN |
| ER 16 / ESX 16 | | | | | | | |
| 61-16230 | 10.00 | 60.00 | 37.60 | 22.00 | 61-16772 | M19 x 1 | SCHAUBLIN |
| 2610.21630 | 10.00 | 60.00 | 38.50 | 22.00 | enthalten | - | REGO-FIX |
| 61-16231 | 12.00 | 80.00 | 37.60 | 22.00 | 61-16772 | M19 x 1 | SCHAUBLIN |
| 2612.21650 | 12.00 | 80.00 | 38.50 | 22.00 | enthalten | - | REGO-FIX |
| 2613.11661 | 12.70 (1/2") | 100.00 | 36.00 | 28.00 | enthalten | - | REGO-FIX |
| 2613.21691 | 12.70 (1/2") | 140.00 | 37.00 | 22.00 | enthalten | - | REGO-FIX |
| 61-16200 (*) | 14.00 | 26.00 | 36.00 | 32.00 | 61-16730 | M22 x 1.5 | SCHAUBLIN |
| 2614.11630 | 14.00 | 60.00 | 36.50 | 28.00 | enthalten | - | REGO-FIX |
| 2616.11631 | 15.87 (5/8") | 60.00 | 36.50 | 28.00 | enthalten | - | REGO-FIX |
| 61-16206 (*) | 16.00 | 28.00 | 34.00 | 32.00 | 61-16730 | M22 x 1.5 | SCHAUBLIN |
| 61-16218 (*) | 16.00 | 60.00 | 35.60 | 32.00 | 61-16730 | M22 x 1.5 | SCHAUBLIN |
| 2616.11630 | 16.00 | 60.00 | 36.50 | 28.00 | enthalten | - | REGO-FIX |
| 2619.11621 | 19.05 (3/4") | 50.00 | 30.50 | 28.00 | enthalten | - | REGO-FIX |
| 2619.11661 | 19.05 (3/4") | 100.00 | 30.50 | 28.00 | enthalten | - | REGO-FIX |
| 2619.21691 | 19.05 (3/4") | 155.00 | 26.50 | 22.00 | enthalten | - | REGO-FIX |
| 61-16201 (*) | 20.00 | 36.00 | 21.00 | 32.00 | 61-16730 | M22 x 1.5 | SCHAUBLIN |
| 2620.11620 | 20.00 | 50.00 | 30.50 | 28.00 | enthalten | - | REGO-FIX |
| 61-16225 (*) | 20.00 | 50.00 | 30.60 | 32.00 | 61-16730 | M22 x 1.5 | SCHAUBLIN |
| 61-16232 | 20.00 | 100.00 | 24.60 | 22.00 | 61-16772 | M19 x 1 | SCHAUBLIN |
| 2620.11660 | 20.00 | 100.00 | 30.50 | 28.00 | enthalten | - | REGO-FIX |
| 2620.21690 | 20.00 | 155.00 | 26.50 | 22.00 | enthalten | - | REGO-FIX |
| 61-16233 | 20.00 | 158.00 | 22.60 | 22.00 | 61-16772 | M19 x 1 | SCHAUBLIN |
| 61-16223 (*) | 20.00 | 158.00 | 22.60 | 25.00 | 61-16710 | M20 x 1 | SCHAUBLIN |

| Typ | D1 h6 | L1 | L | D | Mutter | Gewinde | |
|---|---|---|---|---|---|---|---|
| ER 20 / ESX 20 | | | | | | | |
| 2613.12061 | 12.70 (1/2") | 100.00 | 44.50 | 34.00 | enthalten | - | REGO-FIX |
| 2615.22060 | 15.00 | 100.00 | 42.50 | 28.00 | enthalten | - | REGO-FIX |
| 2616.12061 | 15.87 (5/8") | 100.00 | 44.50 | 34.00 | enthalten | - | REGO-FIX |
| 2616.22060 | 16.00 | 100.00 | 42.50 | 28.00 | enthalten | - | REGO-FIX |
| 61-20209 | 16.00 | 100.00 | 48.50 | 30.50 | 61-20710 | M24 x 1 | SCHAUBLIN |
| 2619.12031 | 19.05 (3/4") | 60.00 | 36.50 | 34.00 | enthalten | - | REGO-FIX |
| 262012010 | 20.00 | 30.00 | 36.50 | 34.00 | enthalten | - | REGO-FIX |
| 61-20200 (*) | 20.00 | 35.00 | 36.00 | 35.00 | 61-20730 | M25 x 1.5 | SCHAUBLIN |
| 2620.12030 | 20.00 | 60.00 | 36.50 | 34.00 | enthalten | - | REGO-FIX |
| 2625.22090 | 25.00 | 155.00 | 26.50 | 28.00 | enthalten | - | REGO-FIX |
| 61-20211 | 25.00 | 155.00 | 27.00 | 30.50 | 61-20710 | M24 x 1 | SCHAUBLIN |
| 61-20221 (*) | 25.00 | 155.00 | 27.00 | 30.50 | 61-20710 | M24 x 1 | SCHAUBLIN |
| 2625.12061 | 25.40 (1") | 100.00 | 39.50 | 34.00 | enthalten | - | REGO-FIX |
| 2625.22091 | 25.40 (1") | 155.00 | 26.50 | 28.00 | enthalten | - | REGO-FIX |
| ER 25 / ESX 25 | | | | | | | |
| 2619.12521 | 19.05 (3/4") | 50.00 | 47.00 | 42.00 | enthalten | - | REGO-FIX |
| 2619.22561 | 19.05 (3/4") | 100.00 | 47.00 | 35.00 | enthalten | - | REGO-FIX |
| 61-25200 (*) | 20.00 | 34.00 | 47.00 | 42.00 | 61-25730 | M32 x 1.5 | SCHAUBLIN |
| 2620.12520 | 20.00 | 50.00 | 47.00 | 42.00 | enthalten | - | REGO-FIX |
| 61-25214 (*) | 20.00 | 50.00 | 47.00 | 42.00 | 61-25730 | M32 x 1.5 | SCHAUBLIN |
| 2620.12560 | 20.00 | 100.00 | 47.00 | 42.00 | enthalten | - | REGO-FIX |
| 61-25201 (*) | 25.00 | 48.00 | 36.00 | 42.00 | 61-25730 | M32 x 1.5 | SCHAUBLIN |
| 2625.12520 | 25.00 | 50.00 | 47.00 | 42.00 | enthalten | - | REGO-FIX |
| 2625.12560 | 25.00 | 100.00 | 47.00 | 42.00 | enthalten | - | REGO-FIX |
| 61-25216 (*) | 25.00 | 145.00 | 37.00 | 35.00 | 61-25772 | M30 x 1 | SCHAUBLIN |
| 61-25203 (*) | 25.40 (1") | 48.00 | 36.00 | 42.00 | 61-25730 | M32 x 1.5 | SCHAUBLIN |
| 2625.12521 | 25.40 (1") | 50.00 | 47.00 | 42.00 | enthalten | - | REGO-FIX |
| 2625.12561 | 25.40 (1") | 100.00 | 47.00 | 42.00 | enthalten | - | REGO-FIX |
| 2630.12520 | 30.00 | 50.00 | 42.00 | 42.00 | enthalten | - | REGO-FIX |
| ER 32 / ESX 32 | | | | | | | |
| 61-32200 (*) | 20.00 | 34.00 | 53.00 | 50.00 | 61-32730 | M40 x 1.5 | SCHAUBLIN |
| 2620.13220 | 20.00 | 50.00 | 54.00 | 50.00 | enthalten | - | REGO-FIX |
| 2620.13260 | 20.00 | 100.00 | 54.00 | 50.00 | enthalten | - | REGO-FIX |
| 61-32201 (*) | 25.00 | 48.00 | 51.00 | 50.00 | 61-32730 | M40 x 1.5 | SCHAUBLIN |
| 2625.13220 | 25.00 | 50.00 | 54.00 | 50.00 | enthalten | - | REGO-FIX |
| 61-32202 (*) | 25.40 (1") | 48.00 | 51.00 | 50.00 | 61-32730 | M40 x 1.5 | SCHAUBLIN |
| 2625.13221 | 25.40 (1") | 50.00 | 53.00 | 50.00 | enthalten | - | REGO-FIX |
| 2630.13220 | 30.00 | 50.00 | 53.00 | 50.00 | enthalten | - | REGO-FIX |
| 2632.13231 | 31.75 (1.25") | 60.00 | 53.00 | 50.00 | enthalten | - | REGO-FIX |
| ER 40 / ESX 40 | | | | | | | |
| 2625.14020 | 25.00 | 50.00 | 60.00 | 63.00 | enthalten | - | REGO-FIX |
| 2625.14021 | 25.40 (1") | 50.00 | 60.00 | 63.00 | enthalten | - | REGO-FIX |

(*) = Für zentrale Kühlmittelzufuhr
Die Schaublin Zangenaufnahmen werden ohne Mutter geliefert

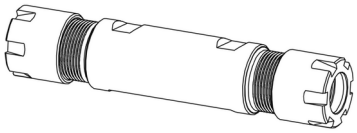
## 4.1.2 Zangenaufnahmen ER / ESX 8 bis 40 mit Spannfläche

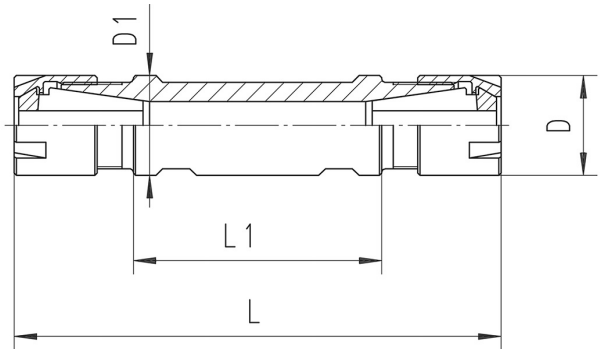





| Artikel Nr | D1 h6 | L1 | L | D | Mutter | Gewinde | |
|---|---|---|---|---|---|---|---|
| ER 8 / ESX 9 | | | | | | | |
| 2616.20811 | 15.87 (5/8") | 43.00 | 15.00 | 12.00 | enthalten | - | REGO-FIX |
| ER 11 / ESX 12 | | | | | | | |
| 2616.21112 | 16.00 | 38.00 | 20.00 | 16.00 | enthalten | - | REGO-FIX |
| 2616.21192 | 16.00 | 140.00 | 60.00 | 16.00 | enthalten | - | REGO-FIX |
| 2619.21173 | 19.05 ((3/4") | 115.00 | 20.00 | 16.00 | enthalten | - | REGO-FIX |
| 2620.21132 | 20.00 | 60.00 | 20.00 | 16.00 | enthalten | - | REGO-FIX |
| ER 16 / ESX 16 | | | | | | | |
| 2616.21612 | 16.00 | 35.00 | 38.00 | 22.00 | enthalten | - | REGO-FIX |
| 2619.21613 | 19.05 ((3/4") | 38.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2619.21623 | 19.05 ((3/4") | 50.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2619.21643 | 19.05 ((3/4") | 70.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2619.21683 | 19.05 ((3/4") | 120.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2619.21693 | 19.05 ((3/4") | 140.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2620.21622 | 20.00 | 50.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2620.21642 | 20.00 | 70.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2620.21682 | 20.00 | 120.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2620.21692 | 20.00 | 140.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2622.21612 | 22.00 | 38.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2622.21642 | 22.00 | 70.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2622.21662 | 22.00 | 100.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 5010-16-25 | 25.00 | 60.00 | 24.60 | 28.00 | enthalten | - | REGO-FIX |
| 2625.21642 | 25.00 | 65.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2625.21613 | 25.40 (1") | 33.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2625.21643 | 25.40 (1") | 65.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2625.21653 | 25.40 (1") | 75.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| 2625.21663 | 25.40 (1") | 100.00 | 28.00 | 22.00 | enthalten | - | REGO-FIX |
| ER 20 / ESX 20 | | | | | | | |
| 2622.22052 | 22.00 | 80.00 | 39.00 | 28.00 | enthalten | - | REGO-FIX |
| 2625.22062 | 25.00 | 100.00 | 28.00 | 28.00 | enthalten | - | REGO-FIX |
| 2625.22002 | 25.00 | 154.00 | 28.00 | 28.00 | enthalten | - | REGO-FIX |
| 2625.22063 | 25.40 (1") | 100.00 | 28.00 | 28.00 | enthalten | - | REGO-FIX |
| 2625.22093 | 25.40 (1") | 140.00 | 28.00 | 28.00 | enthalten | - | REGO-FIX |
| ER 25 / ESX 25 | | | | | | | |
| 2622.22542 | 22.00 | 70.00 | 47.00 | 35.00 | enthalten | - | REGO-FIX |
| 2625.22552 | 25.00 | 75.00 | 47.00 | 35.00 | enthalten | - | REGO-FIX |
| 2625.22592 | 25.00 | 145.00 | 36.00 | 35.00 | enthalten | - | REGO-FIX |
| 2632.12532 | 32.00 | 60.00 | 32.00 | 42.00 | enthalten | - | REGO-FIX |
| 2632.13232 | 32.00 | 60.00 | 38.00 | 50.00 | enthalten | - | REGO-FIX |
| 2632.22542 | 32.00 | 70.00 | 30.00 | 35.00 | enthalten | - | REGO-FIX |
| ER 32 / ESX 32 | | | | | | | |
| 2640.13252 | 40.00 | 80.00 | 33.00 | 50.00 | enthalten | - | REGO-FIX |
| ER 40 / ESX 40 | | | | | | | |
| 2640.14052 | 40.00 | 75.00 | 55.00 | 63.00 | enthalten | - | REGO-FIX |

## 4.1.3 Doppel Zangenaufnahmen ER 8 bis ER 20



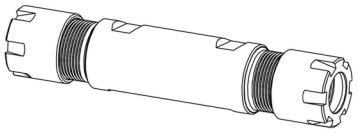


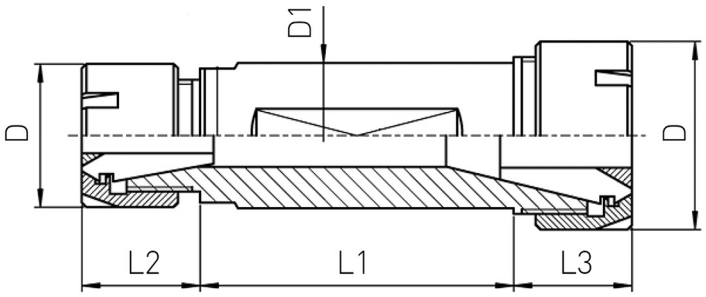

| Artikel Nr | D1 h6 | L1 | L | D | Mutter | |
|---|---|---|---|---|---|---|
| ER 8 / ESX 9 | | | | | | |
| 2616.20805 | 15.87 (5/8") | 15.00 | 45.00 | 12.00 | enthalten | REGO-FIX |
| 2616.20895 | 15.87 (5/8") | 25.00 | 55.00 | 12.00 | enthalten | REGO-FIX |
| W085829-ED | 15.87 (5/8") | 29.00 | 47.00 | 12.00 | enthalten | |
| W085835-ED | 15.87 (5/8") | 35.00 | 55.00 | 12.00 | enthalten | |
| W085840-ED | 15.87 (5/8") | 40.00 | 60.00 | 12.00 | enthalten | |
| W085845-ED | 15.87 (5/8") | 45.00 | 65.00 | 12.00 | enthalten | |
| ER 11 / ESX 12 | | | | | | |
| W115832-ED | 19.05(3/4") | 32.00 | 56.00 | 16.00 | enthalten | |
| W111632-ED | 19.05(3/4") | 32.00 | 56.00 | 16.00 | enthalten | |
| 2616.21114 | 19.05(3/4") | 40.00 | 79.00 | 16.00 | enthalten | REGO-FIX |
| W111650-ED | 19.05(3/4") | 50.00 | 74.00 | 16.00 | enthalten | |
| 2616.21124 | 19.05(3/4") | 50.00 | 90.00 | 16.00 | enthalten | REGO-FIX |
| W111672-ED | 19.05(3/4") | 72.00 | 96.00 | 16.00 | enthalten | |
| W1116100-ED | 19.05(3/4") | 100.00 | 124.00 | 16.00 | enthalten | |
| W111932-ED | 19.05(3/4") | 32.00 | 56.00 | 16.00 | enthalten | |
| W111940-ED | 19.05(3/4") | 40.00 | 64.00 | 16.00 | enthalten | |
| 2619.21125 | 19.05(3/4") | 40.00 | 80.00 | 16.00 | enthalten | REGO-FIX |
| W111952-ED | 19.05(3/4") | 52.00 | 76.00 | 16.00 | enthalten | |
| W111965-ED | 19.05(3/4") | 65.00 | 89.00 | 16.00 | enthalten | |
| 2619.21145 | 20.00 | 70.00 | 110.00 | 16.00 | enthalten | REGO-FIX |
| W111972-ED | 20.00 | 72.00 | 96.00 | 16.00 | enthalten | |
| 2619.21165 | 20.00 | 90.00 | 130.00 | 16.00 | enthalten | REGO-FIX |
| W111995-ED | 20.00 | 95.00 | 119.00 | 16.00 | enthalten | |
| 2620.21114 | 20.00 | 30.00 | 70.00 | 16.00 | enthalten | REGO-FIX |
| W112032-ED | 20.00 | 32.00 | 52.00 | 16.00 | enthalten | |
| W112040-ED | 20.00 | 40.00 | 60.00 | 16.00 | enthalten | |
| W112050-ED | 20.00 | 50.00 | 70.00 | 16.00 | enthalten | |
| 2620.21124 | 20.00 | 50.00 | 90.00 | 16.00 | enthalten | REGO-FIX |
| W112065-ED | 20.00 | 65.00 | 89.00 | 16.00 | enthalten | |
| W112080-ED | 20.00 | 80.00 | 104.00 | 16.00 | enthalten | |
| W112232-ED | 22.00 | 32.00 | 56.00 | 16.00 | enthalten | |
| W112295-EDU | 22.00 | 95.00 | 119.00 | 16.00 | enthalten | |
| W1122100-EDU | 22.00 | 100.00 | 124.00 | 16.00 | enthalten | |
| ER 16 / ESX 16 | | | | | | |
| W161928-ED | 19.05 (3/4") | 28.00 | 56.00 | 22.00 | enthalten | |
| W161934-ED | 19.05 (3/4") | 34.00 | 62.00 | 22.00 | enthalten | |
| W161937-ED | 19.05 (3/4") | 37.00 | 61.00 | 22.00 | enthalten | |
| 2619.21635 | 19.05 (3/4") | 55.00 | 107.00 | 22.00 | enthalten | REGO-FIX |
| W161995-ED | 19.05 (3/4") | 95.00 | 125.00 | 22.00 | enthalten | |
| W1619100-ED | 19.05 (3/4") | 100.00 | 130.00 | 22.00 | enthalten | |
| W162032-ED | 20.00 | 32.00 | 62.00 | 22.00 | enthalten | |
| W162050-ED | 20.00 | 50.00 | 80.00 | 22.00 | enthalten | |
| W162055-ED | 20.00 | 55.00 | 85.00 | 22.00 | enthalten | |
| 2620.21634 | 20.00 | 55.00 | 107.00 | 22.00 | enthalten | REGO-FIX |
| W162062-ED | 20.00 | 62.00 | 92.00 | 22.00 | enthalten | |
| W162075-ED | 20.00 | 75.00 | 105.00 | 22.00 | enthalten | |

# Fortsetzung Doppel Zangenaufnahmen ER 8 bis ER 20

| Artikel Nr | D1 h6 | L1 | L | D | Mutter | |
|---|---|---|---|---|---|---|
| ER 16 / ESX 16 | | | | | | |
| W162240-ED | 22.00 | 40.00 | 70.00 | 22.00 | enthalten | |
| W162248-ED | 22.00 | 48.00 | 78.00 | 22.00 | enthalten | |
| W162255-ED | 22.00 | 55.00 | 85.00 | 22.00 | enthalten | |
| 2622.21634 | 22.00 | 55.00 | 111.00 | 22.00 | enthalten | REGO-FIX |
| W162262-ED | 22.00 | 62.00 | 92.00 | 22.00 | enthalten | |
| W162267-ED | 22.00 | 67.00 | 91.00 | 22.00 | enthalten | |
| W162275-ED | 22.00 | 75.00 | 101.00 | 22.00 | enthalten | |
| 2622.21654 | 22.00 | 75.00 | 131.00 | 22.00 | enthalten | REGO-FIX |
| W162284-ED | 22.00 | 84.00 | 116.00 | 22.00 | enthalten | |
| W162290-ED | 22.00 | 90.00 | 122.00 | 22.00 | enthalten | |
| W162295-ED | 22.00 | 95.00 | 127.00 | 22.00 | enthalten | |
| W1622100-ED | 22.00 | 100.00 | 132.00 | 22.00 | enthalten | |
| W1622120-ED | 22.00 | 120.00 | 150.00 | 22.00 | enthalten | |
| W162360-ED | 23.00 | 60.00 | 92.00 | 22.00 | enthalten | |
| W162562-ED | 25.00 | 62.00 | 94.00 | 22.00 | enthalten | |
| 262521634 | 25.00 | 62.00 | 118.00 | 22.00 | enthalten | REGO-FIX |
| 262521615 | 25.40 (1") | 30.00 | 85.00 | 22.00 | enthalten | REGO-FIX |
| 262521635 | 25.40 (1") | 62.00 | 118.00 | 22.00 | enthalten | REGO-FIX |
| W162621-ED | 25.40 (1") | 21.00 | 49.00 | 22.00 | enthalten | |
| W162635-ED | 25.40 (1") | 35.00 | 63.00 | 22.00 | enthalten | |
| W162645-ED | 25.40 (1") | 45.00 | 75.00 | 22.00 | enthalten | |
| W162662-ED | 25.40 (1") | 62.00 | 94.00 | 22.00 | enthalten | |
| W162668-ED | 25.40 (1") | 68.00 | 96.00 | 22.00 | enthalten | |
| W162675-ED | 25.40 (1") | 75.00 | 105.00 | 22.00 | enthalten | |
| W162680-ED | 25.40 (1") | 80.00 | 114.00 | 22.00 | enthalten | |
| ER 20 / ESX 20 | | | | | | |
| W202548-ED | 25.00 | 48.00 | 80.00 | 28.00 | enthalten | |
| W202575-ED | 25.00 | 75.00 | 107.00 | 28.00 | enthalten | |
| W2025100-ED | 25.00 | 100.00 | 130.00 | 28.00 | enthalten | |
| W202645-ED | 25.40 (1") | 45.00 | 77.00 | 28.00 | enthalten | |
| W202675-ED | 25.40 (1") | 75.00 | 705.00 | 28.00 | enthalten | |
| W203220-ED | 32.00 | 20.00 | 56.00 | 28.00 | enthalten | |
| W203235-ED | 32.00 | 35.00 | 71.00 | 28.00 | enthalten | |
| W203243-ED | 32.00 | 43.00 | 79.00 | 28.00 | enthalten | |
| W203248-ED | 32.00 | 48.00 | 84.00 | 28.00 | enthalten | |
| W203255-ED | 32.00 | 55.00 | 91.00 | 28.00 | enthalten | |
| 2632.22034 | 32.00 | 55.00 | 111.00 | 28.00 | enthalten | REGO-FIX |
| 2632.22054 | 32.00 | 75.00 | 131.00 | 28.00 | enthalten | REGO-FIX |
| W203285-ED | 32.00 | 85.00 | 121.00 | 28.00 | enthalten | |
| W253252-EDU | 32.00 | 52.00 | 84.00 | 40.00 | enthalten | |

## 4.1.4 Doppel Zangenaufnahmen ER mit unterschiedlichen Größen



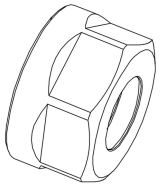


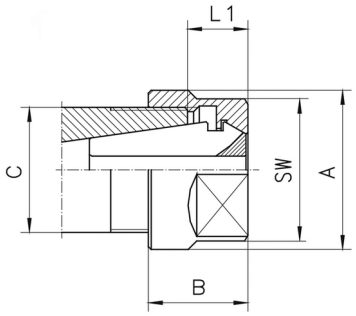

| Artikel Nr | D1 h6 | L1 | L2 | L3 | D |
|---|---|---|---|---|---|
| ER 11 / ER 16 | | | | | |
| W11/161680-ED | 16.00 | 80.00 | 12.00 | 21.00 | 16.00 / 22.00 |
| W11/161933-ED | 19.05 (3/4") | 33.00 | 12.00 | 14.00 | 16.00 / 22.00 |
| W11/161955-ED | 19.05 (3/4") | 55.00 | 12.00 | 13.00 | 16.00 / 22.00 |
| W11/161965-ED | 19.05 (3/4") | 65.00 | 19.00 | 23.00 | 16.00 / 22.00 |
| W11/161983-ED | 19.05 (3/4") | 83.00 | 12.00 | 12.00 | 16.00 / 22.00 |
| W11/161996-ED | 19.05 (3/4") | 96.00 | 12.00 | 14.00 | 16.00 / 22.00 |
| W11/162032-ED | 20.00 | 32.00 | 12.00 | 15.00 | 16.00 / 22.00 |
| W11/162055-ED | 20.00 | 55.00 | 12.00 | 15.00 | 16.00 / 22.00 |
| W11/162075-ED | 20.00 | 75.00 | 10.00 | 15.00 | 16.00 / 22.00 |
| W11/162082-ED | 20.00 | 82.00 | 11.00 | 12.00 | 16.00 / 22.00 |
| W11/162290-ED | 22.00 | 90.00 | 12.00 | 16.00 | 19.00 / 22.00 |
| W11/162292-ED | 22.00 | 92.00 | 12.00 | 16.00 | 19.00 / 22.00 |
| ER 16 / ER 20 | | | | | |
| W16/202265-ED | 22.00 | 65.00 | 23.00 | 25.00 | 22.00 / 28.00 |
| W16/252560-ED | 25.00 | 60.00 | 12.00 | 14.00 | 22.00 / 35.00 |
| W16/202630-ED | 25.40 (1") | 30.00 | 16.00 | 16.00 | 22.00 / 28.00 |
| W16/202660-ED | 25.40 (1") | 60.00 | 15.00 | 15.00 | 22.00 / 28.00 |
| ER 20 / ER 25 | | | | | |
| W20/252562-ED | 25.00 | 62.00 | 25.00 | 34.00 | 28.00 / 35.00 |
| W20/252575-ED | 25.00 | 75.00 | 18.00 | 18.00 | 28.00 / 35.00 |
| W20/252662-ED | 25.40 (1") | 62.00 | 25.00 | 34.00 | 28.00 / 35.00 |
| W20/253250-ED | 32.00 | 50.00 | 25.00 | 34.00 | 28.00 / 35.00 |
| W20/253255-ED | 32.00 | 55.00 | 18.00 | 18.00 | 28.00 / 35.00 |

# 4.2 Rego-Fix HI-Q® Spannmuttern

REGO-FIX®

## 4.2.1 ER 11 – ER 20 Spannmuttern

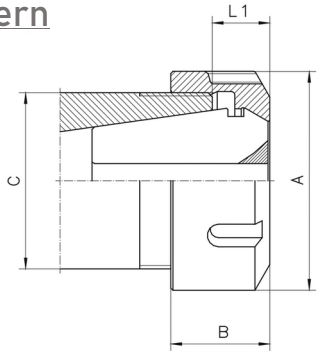





| Artikel Nr | Typ | A (mm) | B (mm) | C | L1 (mm) | SW |
|---|---|---|---|---|---|---|
| ER 11/16/20 | | | | | | |
| 3411.00000 | HI-Q/ER 11 | 19.00 | 11.30 | M14 x 0.75 | 4.90 - 6.60 | 17.00 |
| 3416.00000 | HI-Q/ER 16 | 28.00 | 17.50 | M22 x 1.50 | 7.00 - 10.50 | 25.00 |
| 3420.00000 | HI-Q/ER 20 | 34.00 | 19.00 | M25 x 1.50 | 8.00 - 11.50 | 30.00 |

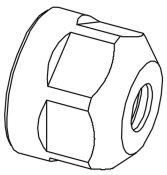
## 4.2.2 ER 25 – ER 50 Spannmuttern

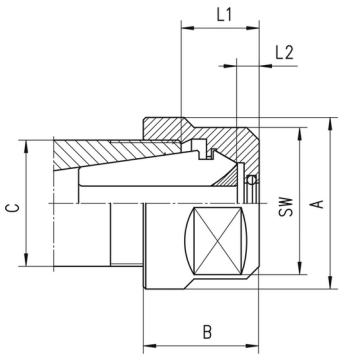





| Artikel Nr | Typ | A (mm) | B (mm) | C | L1 (mm) | SW |
|---|---|---|---|---|---|---|
| ER 25/32/40/50 | | | | | | |
| 3425.00000 | HI-Q/ER 25 | 42.00 | 20.00 | M32 x 1.50 | 8.50 - 12.00 | |
| 3432.00000 | HI-Q/ER 32 | 50.00 | 22.50 | M40 x 1.50 | 9.50 - 13.00 | |
| 3440.00000 | HI-Q/ER 40 | 63.00 | 25.50 | M50 x 1.50 | 11.50 - 15.00 | |
| 3450.00000 | HI-Q/ER 50 | 78.00 | 35.30 | M64 x 2.00 | 14.00 - 21.00 | |

## 4.2.3 ERC 11 Spannmuttern

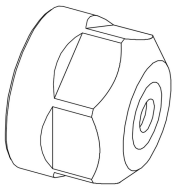


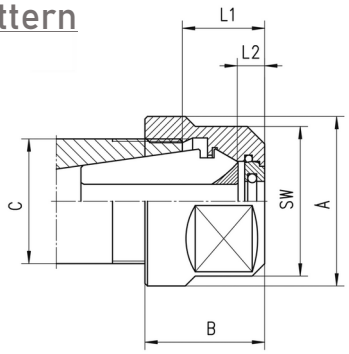



REGO-FIX®

| Artikel Nr | Typ | Dichtbereich (mm) | A (mm) | B (mm) | C | L1 (mm) | L2 (mm) | SW |
|---|---|---|---|---|---|---|---|---|
| ERC 11 | | | | | | | | |
| 3411.20300 | Hi-Q/ERC11 | 3.00 - 2.50 | 19.00 | 14.60 | M14 x 0.75 | 8.10 - 9.80 | 3.50 | 17.00 |
| 3411.20350 | Hi-Q/ERC11 | 3.50 - 3.00 | 19.00 | 14.60 | M14 x 0.75 | 8.10 - 9.80 | 3.50 | 17.00 |
| 3411.20400 | Hi-Q/ERC11 | 4.00 - 3.50 | 19.00 | 14.60 | M14 x 0.75 | 8.10 - 9.80 | 3.50 | 17.00 |
| 3411.20450 | Hi-Q/ERC11 | 4.50 - 4.00 | 19.00 | 14.60 | M14 x 0.75 | 8.10 - 9.80 | 3.50 | 17.00 |
| 3411.20500 | Hi-Q/ERC11 | 5.00 - 4.50 | 19.00 | 14.60 | M14 x 0.75 | 8.10 - 9.80 | 3.50 | 17.00 |
| 3411.20550 | Hi-Q/ERC11 | 5.50 - 5.00 | 19.00 | 14.60 | M14 x 0.75 | 8.10 - 9.80 | 3.50 | 17.00 |
| 3411.20600 | Hi-Q/ERC11 | 6.00 - 5.50 | 19.00 | 14.60 | M14 x 0.75 | 8.10 - 9.80 | 3.50 | 17.00 |
| 3411.20650 | Hi-Q/ERC11 | 6.50 - 6.00 | 19.00 | 14.60 | M14 x 0.75 | 8.10 - 9.80 | 3.50 | 17.00 |
| 3411.20700 | Hi-Q/ERC11 | 7.00 - 6.50 | 19.00 | 14.60 | M14 x 0.75 | 8.10 - 9.80 | 3.50 | 17.00 |

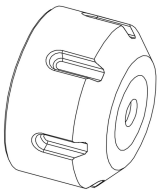
## 4.2.4 ERC 16 – ERC 20 Spannmuttern

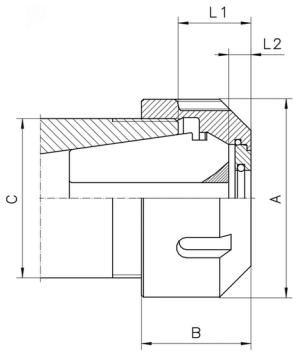





| Artikel Nr | Typ | A (mm) | B (mm) | C | L1 (mm) | L2 (mm) | SW |
|---|---|---|---|---|---|---|---|
| ERC 16/20 | | | | | | | |
| 3416.20000 | HI-Q/ERC16 | 28.00 | 22.50 | M22 x 1.50 | 12.00 - 15.50 | 5.00 | 25.00 |
| 3420.20000 | HI-Q/ERC20 | 34.00 | 24.00 | M25 x 1.50 | 13.00 - 16.50 | 5.00 | 30.00 |

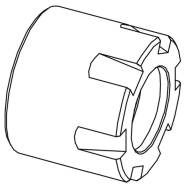
## 4.2.5 ERC 25 – ERC 40 Spannmuttern

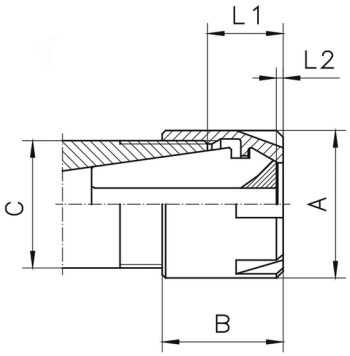





| Artikel Nr | Typ | A (mm) | B (mm) | C | L1 (mm) | L2 (mm) | SW |
|---|---|---|---|---|---|---|---|
| ERC 25/32/40 | | | | | | | |
| 3425.20000 | Hi-Q/ERC25 | 42.00 | 25.00 | M32 x 1.50 | 13.50 - 17.00 | 5.00 | |
| 3432.20000 | Hi-Q/ERC32 | 50.00 | 27.50 | M40 x 1.50 | 14.50 - 18.00 | 5.00 | |
| 3440.20000 | HiQ/ERC40 | 63.00 | 30.50 | M50 x 1.50 | 16.50 - 20.00 | 5.00 | |

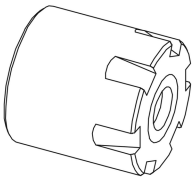
## 4.2.6 ERM Spannmuttern mit minimalem Aussendurchmesser

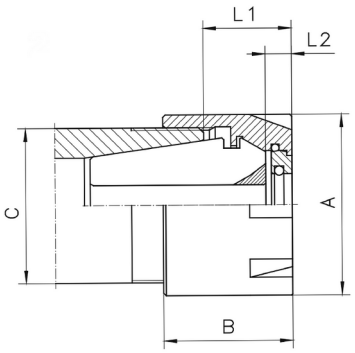





| Artikel Nr | Typ | A (mm) | B (mm) | C | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|
| ERM 8/11/16/20/25 | | | | | | |
| 3508.00000 | Hi-Q/ERM8 | 12.00 | 10.80 | M10 x 0.75 | 4.3 - 6.1 | 1.50 |
| 3511.00000 | Hi-Q/ERM11 | 16.00 | 12.00 | M13 x 0.75 | 5.7 - 7.5 | 0.90 |
| 3516.00000 | Hi-Q/ERM16 | 22.00 | 18.40 | M19 x 1.00 | 8.0 - 11.50 | 0.90 |
| 3520.00000 | Hi-Q/ERM20 | 28.00 | 19.00 | M24 x 1.00 | 8.00 -11.50 | - |
| 3525.00000 | Hi-Q/ERM25 | 35.00 | 20.00 | M30 x 1.00 | 8.50 - 12.00 | - |

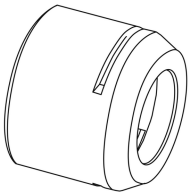
## 4.2.7 ERMC Spannmuttern mit integriertem Dichtsystem

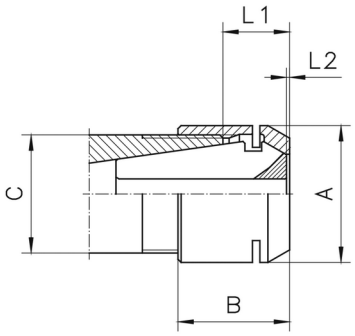





| Artikel Nr | Typ | A (mm) | B (mm) | C | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|
| ERMC 16/20/25 | | | | | | |
| 3516.20000 | Hi-Q/ERMC16 | 22.00 | 22.00 | M19 x 1.00 | 11.50 - 15.00 | 4.50 |
| 3520.20000 | Hi-Q/ERMC20 | 28.00 | 24.00 | M24 x 1.00 | 13.00 - 16.50 | 5.00 |
| 3525.20000 | Hi-Q/ERMC25 | 35.00 | 25.00 | M30 x 1.00 | 13.50 - 17.00 | 5.00 |

## 4.2.8 Spannmuttern für höchste Drehzahlen

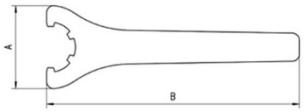




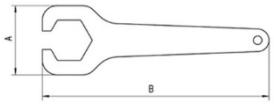

| Artikel Nr | Typ | A (mm) | B (mm) | C | L1 (mm) | L2 (mm) |
|---|---|---|---|---|---|---|
| ER 8/11/16/20 MS | | | | | | |
| 3208.50000 | ER8MS | 12.00 | 10.80 | M10 x 0.75 | 4.30 - 6.10 | 1.50 |
| 3211.50000 | ER11MS | 16.00 | 11.50 | M13 x 0.75 | 4.60 - 6.80 | 0.40 |
| 3216.50000 | ER16MS | 22.00 | 17.80 | M19 x 1.00 | 6.10 - 10.50 | 0.30 |
| 3220.50000 | ER20MS | 28.00 | 19.00 | M24 x 1.00 | 7.10 - 11.50 | 0.30 |

## 4.2.9 E / EP / EM - Schlüssel

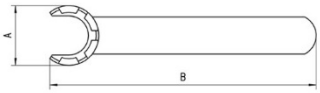




Type E



Type E P

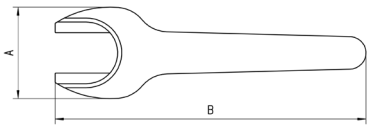


Type E M

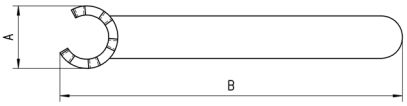
| Artikel Nr | Typ | A (mm) | B (mm) |
|---|---|---|---|
| Typ E | | | |
| 7111.16000 | E16 (ER16) | 50.00 | 160.00 |
| 7111.20000 | E20 (ER20) | 55.00 | 180.00 |
| 7111.25000 | E25 (ER25) | 65.00 | 210.00 |
| 7111.32000 | E32 (ER32) | 75.00 | 250.00 |
| 7111.40000 | E40 (ER40) | 90.00 | 290.00 |
| 7111.50000 | E50 (ER50) | 110.00 | 350.00 |
| Typ EP | | | |
| 7112.11010 | E11P (ER11) | 32.00 | 95.00 |
| 7112.16010 | E16P (ER16) | 44.00 | 145.00 |
| 7112.20010 | E20P (ER20) | 52.00 | 170.00 |
| Typ EM | | | |
| 7113.08000 | E8M (ER8) | 12.40 | 74.00 |
| 7113.11000 | E11M (ER11) | 16.80 | 95.00 |
| 7113.16000 | E16M (ER16) | 22.50 | 117.00 |
| 711320000 | E20M (ER20) | 29.00 | 129.00 |
| 7113.25000 | E25M (ER25) | 36.00 | 141.00 |

## 4.2.10 EMS /EAX - Schlüssel





Type E MS



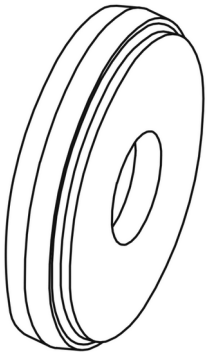
Type E AX

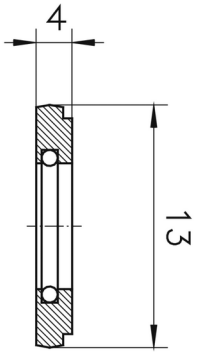
| Artikel Nr | Typ | A (mm) | B (mm) |
|---|---|---|---|
| Typ EMS | | | |
| 7114.08000 | E8MS (ER8) | 19.20 | 76.00 |
| 7114.11000 | E11MS (ER11) | 22.00 | 100.00 |
| 7114.16000 | E16MS (ER16) | 33.00 | 130.00 |
| 7114.20000 | E20MS (ER20) | 42.00 | 140.00 |
| Typ EP | | | |
| 7117.11000 | E11AX (ER11) | 16.50 | 108.00 |
| 7117.16000 | E16AX (ER16) | 22.50 | 131.00 |
| 7117.20000 | E20AX (ER20) | 26.00 | 148.00 |
| 7117.25000 | E25AX (ER25) | 29.50 | 162.00 |
| 7117.32000 | E32AX (ER32) | 37.50 | 196.00 |
| 7117.40000 | E40AX (ER40) | 47.50 | 220.00 |

# 4.3 Rego-Fix Dichtscheiben

REGO-FIX®

## 4.3.1 DS/ER 16 Dichtscheiben



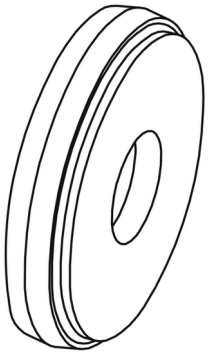


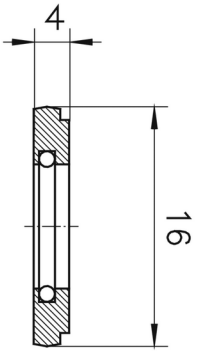

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 391.600.300 | 3.00 - 2.50 |
| 391.600.350 | 3.50 - 3.00 |
| 391.600.400 | 4.00 - 3.50 |
| 391.600.450 | 4.50 - 4.00 |
| 391.600.500 | 5.00 - 4.50 |

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 391.600.550 | 5.50 - 5.00 |
| 391.600.600 | 6.00 - 5.50 |
| 391.600.650 | 6.50 - 6.00 |
| 391.600.700 | 7.00 - 6.50 |
| 391.600.750 | 7.50 - 7.00 |

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 391.600.800 | 8.00 - 7.50 |
| 391.600.850 | 8.50 - 8.00 |
| 391.600.900 | 9.00 - 8.50 |
| 391.600.950 | 9.50 - 9.00 |
| 391.601.000 | 10.00 - 9.50 |

## 4.3.2 DS/ER 20 Dichtscheiben





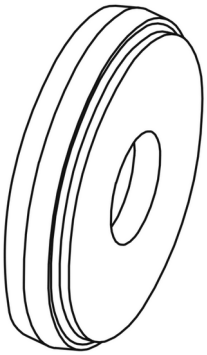

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3920.00300 | 3.00 - 2.50 |
| 3920.00350 | 3.50 - 3.00 |
| 3920.00400 | 4.00 - 3.50 |
| 3920.00450 | 4.50 - 4.00 |
| 3920.00500 | 5.00 - 4.50 |
| 3920.00550 | 5.50 - 5.00 |
| 3920.00600 | 6.00 - 5.50 |

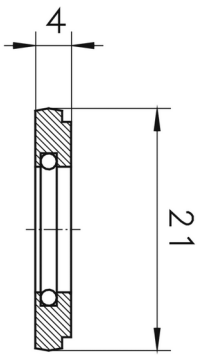
| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3920.00650 | 6.50 - 6.00 |
| 3920.00700 | 7.00 - 6.50 |
| 3920.00750 | 7.50 - 7.00 |
| 3920.00800 | 8.00 - 7.50 |
| 3920.00850 | 8.50 - 8.00 |
| 3920.00900 | 9.00 - 8.50 |
| 3920.00950 | 9.50 - 9.00 |

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3920.01000 | 10.00 - 9.50 |
| 3920.01050 | 10.50 - 10.00 |
| 3920.01100 | 11.00 - 10.50 |
| 3920.01150 | 11.50 - 10.00 |
| 3920.01200 | 12.00 - 11.50 |
| 3920.01250 | 12.50 - 12.00 |
| 3920.01300 | 13.00 - 12.50 |

## 4.3.3 DS/ER 25 Dichtscheiben

REGO-FIX®



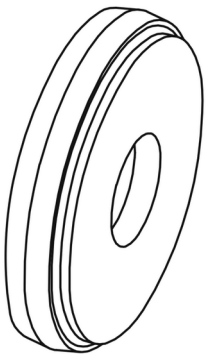


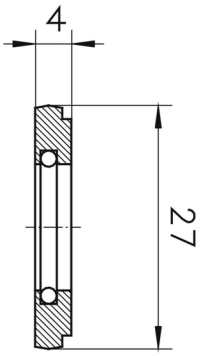

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3925.00300 | 3.00 - 2.50 |
| 3925.00350 | 3.50 - 3.00 |
| 3925.00400 | 4.00 - 3.50 |
| 3925.00450 | 4.50 - 4.00 |
| 3925.00500 | 5.00 - 4.50 |
| 3925.00550 | 5.50 - 5.00 |
| 3925.00600 | 6.00 - 5.50 |
| 3925.00650 | 6.50 - 6.00 |
| 3925.00700 | 7.00 - 6.50 |

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3925.00750 | 7.50 - 7.00 |
| 3925.00800 | 8.00 - 7.50 |
| 3925.00850 | 8.50 - 8.00 |
| 3925.00900 | 9.00 - 8.50 |
| 3925.00950 | 9.50 - 9.00 |
| 3925.01000 | 10.00 - 9.50 |
| 3925.01050 | 10.50 - 10.00 |
| 3925.01100 | 11.00 - 10.50 |
| 3925.01150 | 11.50 - 11.00 |

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3925.01200 | 12.00 - 11.50 |
| 3925.01250 | 12.50 - 12.00 |
| 3925.01300 | 13.00 -12.50 |
| 3925.01350 | 13.50 - 13.00 |
| 3925.01400 | 14.00 - 13.50 |
| 3925.01450 | 14.50 - 14.00 |
| 3925.01500 | 15.00 - 15.50 |
| 3925.01550 | 15.50 - 15.00 |
| 3925.01600 | 16.00 -15.50 |

## 4.3.4 DS/ER 32 Dichtscheiben



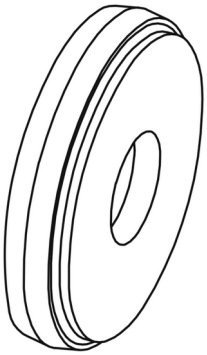


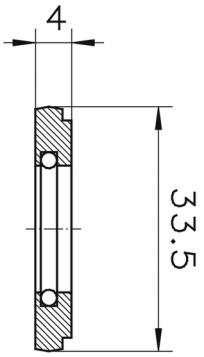

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3932.00300 | 3.00 - 2.50 |
| 3932.00350 | 3.50 - 3.00 |
| 3932.00400 | 4.00 - 3.50 |
| 3932.00450 | 4.50 - 4.00 |
| 3932.00500 | 5.00 - 4.50 |
| 3932.00550 | 5.50 - 5.00 |
| 3932.00600 | 6.00 - 5.50 |
| 3932.00650 | 6.50 - 6.00 |
| 3932.00700 | 7.00 - 6.50 |
| 3932.00750 | 7.50 - 7.00 |
| 3932.00800 | 8.00 - 7.50 |
| 3932.00850 | 8.50 - 8.00 |

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3932.00900 | 9.00 - 8.50 |
| 3932.00950 | 9.50 - 9.00 |
| 3932.01000 | 10.00 - 9.50 |
| 3932.01050 | 10.50 - 10.00 |
| 3932.01100 | 11.00 - 10.50 |
| 3932.01150 | 11.50 - 11.00 |
| 3932.01200 | 12.00 - 11.50 |
| 3932.01250 | 12.50 - 12.00 |
| 3932.01300 | 13.00 - 12.50 |
| 3932.01350 | 13.50 - 13.00 |
| 3932.01400 | 14.00 - 13.50 |
| 3932.01450 | 14.50 - 14.00 |

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3932.01500 | 15.00 - 14.50 |
| 3932.01550 | 15.50 - 15.00 |
| 3932.01600 | 16.00 - 15.50 |
| 3932.01650 | 16.50 - 16.00 |
| 3932.01700 | 17.00 - 16.50 |
| 3932.01750 | 17.50 - 17.00 |
| 3932.01800 | 18.00 - 17.50 |
| 3932.01850 | 18.50 - 18.00 |
| 3932.01900 | 19.00 - 18.50 |
| 3932.01950 | 19.50 - 19.00 |
| 3932.02000 | 20.00 - 19.50 |
| | |

## 4.3.5 DS/ER 40 Dichtscheiben



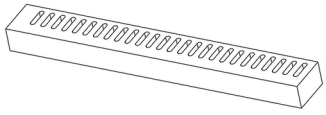



| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3940.00300 | 3.00 - 2.50 |
| 3940.00350 | 3.50 - 3.00 |
| 3940.00400 | 4.00 - 3.50 |
| 3940.00450 | 4.50 - 4.00 |
| 3940.00500 | 5.00 - 4.50 |
| 3940.00550 | 5.50 - 5.00 |
| 3940.00600 | 6.00 - 5.50 |
| 3940.00650 | 6.50 - 6.00 |
| 3940.00700 | 7.00 - 6.50 |
| 3940.00750 | 7.50 - 7.00 |
| 3940.00800 | 8.00 - 7.50 |
| 3940.00850 | 8.50 - 8.00 |
| 3940.00900 | 9.00 - 8.50 |
| 3940.00950 | 9.50 - 9.00 |
| 3940.01000 | 10.00 - 9.50 |
| 3940.01050 | 10.50 - 10.00 |

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3940.01100 | 11.00 - 10.50 |
| 3940.01150 | 11.50 - 11.00 |
| 3940.01200 | 12.00 - 11.50 |
| 3940.01250 | 12.50 - 12.00 |
| 3940.01300 | 13.00 - 12.50 |
| 3940.01350 | 13.50 - 13.00 |
| 3940.01400 | 14.00 - 13.50 |
| 3940.01450 | 14.50 - 14.00 |
| 3940.01500 | 15.00 - 14.50 |
| 3940.01550 | 15.50 - 15.00 |
| 3940.01600 | 16.00 - 15.50 |
| 3940.01650 | 16.50 - 16.00 |
| 3940.01700 | 17.00 - 16.50 |
| 3940.01750 | 17.50 - 17.00 |
| 3940.01800 | 18.00 - 17.50 |
| 3940.01850 | 18.50 - 18.00 |

| Artikel Nr | Dichtbereich (mm) |
|---|---|
| 3940.01900 | 19.00 - 18.50 |
| 3940.01950 | 19.50 - 19.00 |
| 3940.02000 | 20.00 - 19.50 |
| 3940.02050 | 20.50 - 20.00 |
| 3940.02100 | 21.00 - 20.50 |
| 3940.02150 | 21.50 - 21.00 |
| 3940.02200 | 22.00 - 21.50 |
| 3940.02250 | 22.50 - 22.00 |
| 3940.02300 | 23.00 - 22.50 |
| 3940.02350 | 23.50 - 23.00 |
| 3940.02400 | 24.00 - 23.50 |
| 3940.02450 | 24.50 - 24.00 |
| 3940.02500 | 25.00 - 24.00 |
| 3940.02550 | 25.50 - 25.00 |
| 3940.02600 | 26.00 - 25.50 |
| | |

## 4.3.6 Sockel für Dichtscheibensätze



| Artikel Nr | Typ | Anzahl Scheiben |
|---|---|---|
| 7122.16000 | DSR/16 | 14 |
| 7122.20000 | DSR/20 | 20 |
| 7122.25000 | DSR/25 | 26 |
| 7122.32000 | DSR/32 | 34 |
| 7122.40000 | DSR/40 | 46 |