



- Spannzangen
- Reduziereinsätze
- Spannblock
  
- Collets
- Reduction bushes
- Universal block



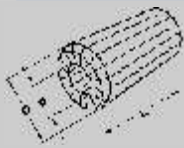
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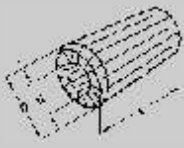
Spannfutter mit Zylinderschaft  
Collet chuck with straight shank  
Spannzangen DIN 6388 B  
Collets DIN 6388 form B



|    |                              | Inklusive Spannmutter<br>Included: Clamping nuts |                          |     |    |    |
|----|------------------------------|--|--------------------------|-----|----|----|
| d  | Bestellnummer<br>part number | Lieferstatus<br>stock                            | Spannbereich<br>Capacity | L   | L1 | D  |
| 16 | 120.02.10                    | ⊙  | ER16 1-10                | 150 | 30 | 32 |
| 20 | 120.02.16                    | ⊙  | ER25 1-16                | 150 | 40 | 42 |
| 32 | 120.02.20                    | ⊙  | ER32 2-20                | 150 | 35 | 50 |

415 E  **Komplette Sets Seite 6  
Complete sets page 6**

| Bestellnummer<br>part number | Lieferstatus<br>stock | d  | D    | L  |
|------------------------------|-----------------------|----|------|----|
| 415 E-02                     | ⊙                     | 2  | 25,5 | 40 |
| 415 E-03                     | ⊙                     | 3  | 25,5 | 40 |
| 415 E-04                     | ⊙                     | 4  | 25,5 | 40 |
| 415 E-05                     | ⊙                     | 5  | 25,5 | 40 |
| 415 E-06                     | ⊙                     | 6  | 25,5 | 40 |
| 415 E-07                     | ⊙                     | 7  | 25,5 | 40 |
| 415 E-08                     | ⊙                     | 8  | 25,5 | 40 |
| 415 E-09                     | ⊙                     | 9  | 25,5 | 40 |
| 415 E-10                     | ⊙                     | 10 | 25,5 | 40 |
| 415 E-11                     | ⊙                     | 11 | 25,5 | 40 |
| 415 E-12                     | ⊙                     | 12 | 25,5 | 40 |
| 415 E-13                     | ⊙                     | 13 | 25,5 | 40 |
| 415 E-14                     | ⊙                     | 14 | 25,5 | 40 |
| 415 E-15                     | ⊙                     | 15 | 25,5 | 40 |
| 415 E-16                     | ⊙                     | 16 | 25,5 | 40 |

462 E  **Komplette Sets Seite 6  
Complete sets page 6**

| Bestellnummer<br>part number | Lieferstatus<br>stock | d  | D     | L  |
|------------------------------|-----------------------|----|-------|----|
| 462 E-02                     | ⊙                     | 2  | 35,05 | 52 |
| 462 E-03                     | ⊙                     | 3  | 35,05 | 52 |
| 462 E-04                     | ⊙                     | 4  | 35,05 | 52 |
| 462 E-05                     | ⊙                     | 5  | 35,05 | 52 |
| 462 E-06                     | ⊙                     | 6  | 35,05 | 52 |
| 462 E-07                     | ⊙                     | 7  | 35,05 | 52 |
| 462 E-08                     | ⊙                     | 8  | 35,05 | 52 |
| 462 E-09                     | ⊙                     | 9  | 35,05 | 52 |
| 462 E-10                     | ⊙                     | 10 | 35,05 | 52 |
| 462 E-11                     | ⊙                     | 11 | 35,05 | 52 |
| 462 E-12                     | ⊙                     | 12 | 35,05 | 52 |
| 462 E-13                     | ⊙                     | 13 | 35,05 | 52 |
| 462 E-14                     | ⊙                     | 14 | 35,05 | 52 |
| 462 E-15                     | ⊙                     | 15 | 35,05 | 52 |
| 462 E-16                     | ⊙                     | 16 | 35,05 | 52 |
| 462 E-17                     | ⊙                     | 17 | 35,05 | 52 |
| 462 E-18                     | ⊙                     | 18 | 35,05 | 52 |
| 462 E-19                     | ⊙                     | 19 | 35,05 | 52 |
| 462 E-20                     | ⊙                     | 20 | 35,05 | 52 |
| 462 E-21                     | ⊙                     | 21 | 35,05 | 52 |
| 462 E-22                     | ⊙                     | 22 | 35,05 | 52 |
| 462 E-23                     | ⊙                     | 23 | 35,05 | 52 |
| 462 E-24                     | ⊙                     | 24 | 35,05 | 52 |
| 462 E-25                     | ⊙                     | 25 | 35,05 | 52 |

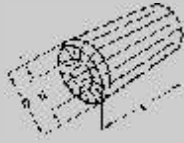
delivery time  
⊙ on stock, subject to prior sale  
⊖ not on stock, delivery time upon request

Lieferzeit  
⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
⊖ nicht lagerhaltig - Lieferzeit auf Anfrage



Spannzangen DIN 6388 B  
 Collets DIN 6388 form B  
 Spannzangen System ER  
 Collets system ER

467 E

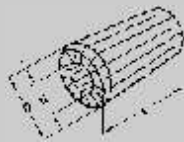


Komplette Sets Seite 6  
 Complete sets page 6

|  | Bestellnummer<br>part number | Lieferstatus<br>stock | d  | D    | L  |
|--|------------------------------|-----------------------|----|------|----|
|  | 467 E-03                     | ⊙                     | 3  | 43,7 | 60 |
|  | 467 E-04                     | ⊙                     | 4  | 43,7 | 60 |
|  | 467 E-05                     | ⊙                     | 5  | 43,7 | 60 |
|  | 467 E-06                     | ⊙                     | 6  | 43,7 | 60 |
|  | 467 E-07                     | ⊙                     | 7  | 43,7 | 60 |
|  | 467 E-08                     | ⊙                     | 8  | 43,7 | 60 |
|  | 467 E-09                     | ⊙                     | 9  | 43,7 | 60 |
|  | 467 E-10                     | ⊙                     | 10 | 43,7 | 60 |
|  | 467 E-11                     | ⊙                     | 11 | 43,7 | 60 |
|  | 467 E-12                     | ⊙                     | 12 | 43,7 | 60 |
|  | 467 E-13                     | ⊙                     | 13 | 43,7 | 60 |
|  | 467 E-14                     | ⊙                     | 14 | 43,7 | 60 |
|  | 467 E-15                     | ⊙                     | 15 | 43,7 | 60 |
|  | 467 E-16                     | ⊙                     | 16 | 43,7 | 60 |
|  | 467 E-17                     | ⊙                     | 17 | 43,7 | 60 |
|  | 467 E-18                     | ⊙                     | 18 | 43,7 | 60 |
|  | 467 E-19                     | ⊙                     | 19 | 43,7 | 60 |
|  | 467 E-20                     | ⊙                     | 20 | 43,7 | 60 |
|  | 467 E-21                     | ⊙                     | 21 | 43,7 | 60 |
|  | 467 E-22                     | ⊙                     | 22 | 43,7 | 60 |
|  | 467 E-23                     | ⊙                     | 23 | 43,7 | 60 |
|  | 467 E-24                     | ⊙                     | 24 | 43,7 | 60 |
|  | 467 E-25                     | ⊙                     | 25 | 43,7 | 60 |
|  | 467 E-26                     | ⊙                     | 26 | 43,7 | 60 |
|  | 467 E-27                     | ⊙                     | 27 | 43,7 | 60 |
|  | 467 E-28                     | ⊙                     | 28 | 43,7 | 60 |
|  | 467 E-29                     | ⊙                     | 29 | 43,7 | 60 |
|  | 467 E-30                     | ⊙                     | 30 | 43,7 | 60 |
|  | 467 E-31                     | ⊙                     | 31 | 43,7 | 60 |
|  | 467 E-32                     | ⊙                     | 32 | 43,7 | 60 |

delivery time  
 ⊙ on stock, subject to prior sale  
 ⊙ not on stock, delivery time upon request  
 Lieferzeit  
 ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
 ⊙ nicht lieferbar - Lieferzeit auf Anfrage

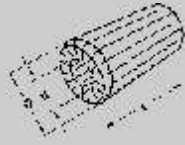
426 E ER16



Komplette Sets Seite 6  
 Complete sets page 6

|  | Bestellnummer<br>part number | Lieferstatus<br>stock | d  | D  | L  |
|--|------------------------------|-----------------------|----|----|----|
|  | 426 E-01                     | ⊙                     | 1  | 17 | 27 |
|  | 426 E-02                     | ⊙                     | 2  | 17 | 27 |
|  | 426 E-03                     | ⊙                     | 3  | 17 | 27 |
|  | 426 E-04                     | ⊙                     | 4  | 17 | 27 |
|  | 426 E-05                     | ⊙                     | 5  | 17 | 27 |
|  | 426 E-06                     | ⊙                     | 6  | 17 | 27 |
|  | 426 E-07                     | ⊙                     | 7  | 17 | 27 |
|  | 426 E-08                     | ⊙                     | 8  | 17 | 27 |
|  | 426 E-09                     | ⊙                     | 9  | 17 | 27 |
|  | 426 E-10                     | ⊙                     | 10 | 17 | 27 |

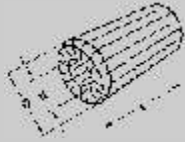
430 E ER 25



Komplette Sets Seite 6  
Complete sets page 6

| Bestellnummer<br>part number | Lieferstatus<br>stock | d  | D  | L  |
|------------------------------|-----------------------|----|----|----|
| 430 E-02                     | ⊙                     | 2  | 26 | 34 |
| 430 E-03                     | ⊙                     | 3  | 26 | 34 |
| 430 E-04                     | ⊙                     | 4  | 26 | 34 |
| 430 E-05                     | ⊙                     | 5  | 26 | 34 |
| 430 E-06                     | ⊙                     | 6  | 26 | 34 |
| 430 E-07                     | ⊙                     | 7  | 26 | 34 |
| 430 E-08                     | ⊙                     | 8  | 26 | 34 |
| 430 E-09                     | ⊙                     | 9  | 26 | 34 |
| 430 E-10                     | ⊙                     | 10 | 26 | 34 |
| 430 E-11                     | ⊙                     | 11 | 26 | 34 |
| 430 E-12                     | ⊙                     | 12 | 26 | 34 |
| 430 E-13                     | ⊙                     | 13 | 26 | 34 |
| 430 E-14                     | ⊙                     | 14 | 26 | 34 |
| 430 E-15                     | ⊙                     | 15 | 26 | 34 |
| 430 E-16                     | ⊙                     | 16 | 26 | 34 |

470 E ER 32



Komplette Sets Seite 6  
Complete sets page 6

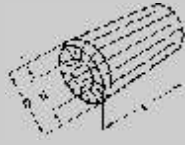
| Bestellnummer<br>part number | Lieferstatus<br>stock | d  | D  | L  |
|------------------------------|-----------------------|----|----|----|
| 470 E-02                     | ⊙                     | 2  | 33 | 40 |
| 470 E-03                     | ⊙                     | 3  | 33 | 40 |
| 470 E-04                     | ⊙                     | 4  | 33 | 40 |
| 470 E-05                     | ⊙                     | 5  | 33 | 40 |
| 470 E-06                     | ⊙                     | 6  | 33 | 40 |
| 470 E-07                     | ⊙                     | 7  | 33 | 40 |
| 470 E-08                     | ⊙                     | 8  | 33 | 40 |
| 470 E-09                     | ⊙                     | 9  | 33 | 40 |
| 470 E-10                     | ⊙                     | 10 | 33 | 40 |
| 470 E-11                     | ⊙                     | 11 | 33 | 40 |
| 470 E-12                     | ⊙                     | 12 | 33 | 40 |
| 470 E-13                     | ⊙                     | 13 | 33 | 40 |
| 470 E-14                     | ⊙                     | 14 | 33 | 40 |
| 470 E-15                     | ⊙                     | 15 | 33 | 40 |
| 470 E-16                     | ⊙                     | 16 | 33 | 40 |
| 470 E-17                     | ⊙                     | 17 | 33 | 40 |
| 470 E-18                     | ⊙                     | 18 | 33 | 40 |
| 470 E-19                     | ⊙                     | 19 | 33 | 40 |
| 470 E-20                     | ⊙                     | 20 | 33 | 40 |

delivery time  
 ⊙ on stock, subject to prior sale  
 ⊙ not on stock, delivery time upon request  
 ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
 ⊙ nicht lagerfähig - Lieferzeit auf Anfrage  
 Lieferzeit



**Spannzangen System ER**  
**Collets system ER**  
**Spannzangen Sätze**  
**Collets system sets**

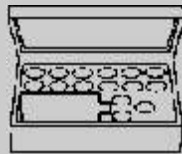
472 E ER 40



**Komplette Sets Seite 6**  
**Complete sets page 6**

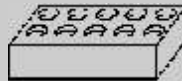
|  | Bestellnummer<br>part number | Lieferstatus<br>stock | d  | D  | L  |
|--|------------------------------|-----------------------|----|----|----|
|  | 472 E-03                     | ⊙                     | 3  | 41 | 46 |
|  | 472 E-04                     | ⊙                     | 4  | 41 | 46 |
|  | 472 E-05                     | ⊙                     | 5  | 41 | 46 |
|  | 472 E-06                     | ⊙                     | 6  | 41 | 46 |
|  | 472 E-07                     | ⊙                     | 7  | 41 | 46 |
|  | 472 E-08                     | ⊙                     | 8  | 41 | 46 |
|  | 472 E-09                     | ⊙                     | 9  | 41 | 46 |
|  | 472 E-10                     | ⊙                     | 10 | 41 | 46 |
|  | 472 E-11                     | ⊙                     | 11 | 41 | 46 |
|  | 472 E-12                     | ⊙                     | 12 | 41 | 46 |
|  | 472 E-13                     | ⊙                     | 13 | 41 | 46 |
|  | 472 E-14                     | ⊙                     | 14 | 41 | 46 |
|  | 472 E-15                     | ⊙                     | 15 | 41 | 46 |
|  | 472 E-16                     | ⊙                     | 16 | 41 | 46 |
|  | 472 E-17                     | ⊙                     | 17 | 41 | 46 |
|  | 472 E-18                     | ⊙                     | 18 | 41 | 46 |
|  | 472 E-19                     | ⊙                     | 19 | 41 | 46 |
|  | 472 E-20                     | ⊙                     | 20 | 41 | 46 |
|  | 472 E-21                     | ⊙                     | 21 | 41 | 46 |
|  | 472 E-22                     | ⊙                     | 22 | 41 | 46 |
|  | 472 E-23                     | ⊙                     | 23 | 41 | 46 |
|  | 472 E-24                     | ⊙                     | 24 | 41 | 46 |
|  | 472 E-25                     | ⊙                     | 25 | 41 | 46 |
|  | 472 E-26                     | ⊙                     | 26 | 41 | 46 |

**Lieferzeit**  
 ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
 ⊙ on stock, subject to prior sale  
 ⊙ nicht lagerhaltig - Lieferzeit auf Anfrage  
 ⊙ not on stock, delivery time upon request



**Sets**  
**sets**

| Spannzangensatz<br>delivery in a set | Bestellnummer<br>part number | Lieferstatus<br>stock | Stück im Set<br>piece in set | Abmessung<br>size                          |
|--------------------------------------|------------------------------|-----------------------|------------------------------|--|
| 415 E                                | 701.415.1                    | ⊙                     | (15 St./pcs)                 | 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16       |
| 462 E                                | 701.462.1                    | ⊙                     | (15 St./pcs)                 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-25     |
| 467 E                                | 701.467.1                    | ⊙                     | (16 St./pcs)                 | 5-6-7-8-10-12-14-6-18-20-22-24-25-28-30-32 |
| 426 E (ER16)                         | 701.426.1                    | ⊙                     | (10 St./pcs)                 | 1-2-3-4-5-6-7-8-9-10                       |
| 430 E (ER25)                         | 701.430.1                    | ⊙                     | (15 St./pcs)                 | 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16       |
| 470 E (ER32)                         | 701.470.1                    | ⊙                     | (15 St./pcs)                 | 3-4-5-6-7-8-9-10-11-12-14-15-16-18-20      |
| 472 E (ER40)                         | 701.472.1                    | ⊙                     | (16 St./pcs)                 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-26  |

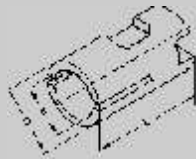


**Sets**  
**sets**

| Spannzangensatz<br>delivery in a set | Bestellnummer<br>part number | Lieferstatus<br>stock | Stück im Set<br>piece in set | Abmessung<br>size  |
|--------------------------------------|------------------------------|-----------------------|------------------------------|--|
| 415 E                                | 415 E-S                      | ⊙                     | (15 St./pcs)                 | 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16                           |
| 462 E                                | 462 E-S                      | ⊙                     | (15 St./pcs)                 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-25                         |
| 467 E                                | 467 E-S                      | ⊙                     | (16 St./pcs)                 | 5-6-7-8-10-12-14-6-18-20-22-24-25-28-30-32                     |
| 426 E (ER16)                         | 426 E-S                      | ⊙                     | (10 St./pcs)                 | 1-2-3-4-5-6-7-8-9-10   |
| 430 E (ER25)                         | 430 E-S                      | ⊙                     | (15 St./pcs)                 | 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16                           |
| 470 E (ER32)                         | 470 E-S                      | ⊙                     | (18 St./pcs)                 | 3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20                 |
| 472 E (ER40)                         | 472 E-S                      | ⊙                     | (23 St./pcs)                 | 4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26 |

Gewindebohrer - Spannhülse  
Retaining sleeve for screw tap

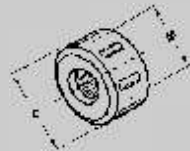
Spanmutter  
Clamping Nuts



| Bestellnummer<br>part number | Lieferstatus<br>stock | d  | d x sw    | L  |
|------------------------------|-----------------------|----|-----------|----|
| 704.04.0825                  | ⊙                     | 8  | 2,5x 2,1  | 36 |
| 704.04.0828                  | ⊙                     | 8  | 2,8x 2,1  | 36 |
| 704.04.1035                  | ⊙                     | 10 | 3,5x 2,7  | 40 |
| 704.04.1040                  | ⊙                     | 10 | 4,0x 3,0  | 40 |
| 704.04.1045                  | ⊙                     | 10 | 4,5x 3,4  | 40 |
| 704.04.1260                  | ⊙                     | 12 | 6,0x 4,9  | 45 |
| 704.04.1470                  | ⊙                     | 14 | 7,0x 5,5  | 45 |
| 704.04.1480                  | ⊙                     | 14 | 8,0x 6,2  | 48 |
| 704.04.1690                  | ⊙                     | 16 | 9,0x 7,0  | 48 |
| 704.04.1610                  | ⊙                     | 16 | 10,0x 8,0 | 48 |
| 704.04.1811                  | ⊙                     | 18 | 11,0x 9,0 | 50 |
| 704.04.2012                  | ⊙                     | 20 | 12,0x 9,0 | 50 |
| 704.04.2514                  | ⊙                     | 25 | 14,0x11,0 | 56 |
| 704.04.2516                  | ⊙                     | 25 | 16,0x12,0 | 56 |
| 704.04.3218                  | ⊙                     | 32 | 18,0x14,5 | 60 |
| 704.04.3220                  | ⊙                     | 32 | 20,0x16,0 | 60 |
| 704.04.3222                  | ⊙                     | 32 | 22,0x18,0 | 60 |

OZ DIN 6388D

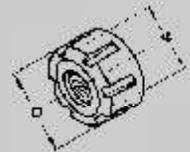
Kugelgelagerte Ausführung  
ball-bearing version



| Bestellnummer<br>part number | Lieferstatus<br>stock | Abmessung<br>size | D  | Gewinde<br>tap |
|------------------------------|-----------------------|-------------------|----|----------------|
| 112.01.16                    | ⊙                     | 2 - 16            | 43 | M33x1,5        |
| 112.01.25                    | ⊙                     | 2 - 25            | 60 | M48x2          |
| 112.01.32                    | ⊙                     | 3 - 32            | 72 | M60x2,5        |

ER DIN 6499

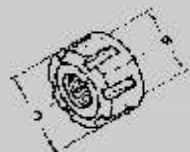
Standard Ausführung mit Exzenterring-gewuchtet  
Clamping nuts-balanced



| Bestellnummer<br>part number | Lieferstatus<br>stock | Abmessung<br>size | D  | Gewinde<br>tap |
|------------------------------|-----------------------|-------------------|----|----------------|
| 110.02.10                    | ⊙                     | ER16              | 32 | M22x1,5        |
| 110.02.16                    | ⊙                     | ER25              | 42 | M32x1,5        |
| 110.02.20                    | ⊙                     | ER32              | 50 | M40x1,5        |
| 110.02.26                    | ⊙                     | ER40              | 63 | M50x1,5        |

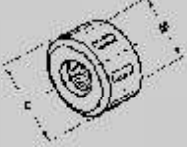
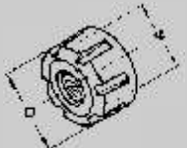


ER DIN 6499

Kugelgelagerte Ausführung  
ball-bearing version



| Bestellnummer<br>part number | Lieferstatus<br>stock | Abmessung<br>size | D        | Gewinde<br>tap |
|------------------------------|-----------------------|-------------------|----------|----------------|
| 112.02.10                    | ⊙                     | ER16              | 32 sw 27 | M22x1,5        |
| 112.02.16                    | ⊙                     | ER25              | 42       | M32x1,5        |
| 112.02.20                    | ⊙                     | ER32              | 50       | M40x1,5        |
| 112.02.26                    | ⊙                     | ER40              | 63       | M50x1,5        |

delivery time  
 ⊙ on stock, subject to prior sale  
 ⊙ not on stock, delivery time upon request  
 Lieferzeit  
 ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
 ⊙ nicht lagerhaltig - Lieferzeit auf Anfrage

| OZ DIN 6388   |   |                       |  |                            |   |  |
|---|---|-----------------------|--|----------------------------|---|--|
|    |   |                       |  |                            |   |  |
|   | Bestellnummer<br>part number                      | Lieferstatus<br>stock | Abmessung<br>size  | D                          | Gewinde<br>tap                                    |  |
|   | 113.01.16<br>113.01.25<br>113.01.32               | ⊙<br>⊙<br>⊙           | 2 - 16<br>2 - 25<br>3 - 32   | 43<br>60<br>72             | M33x1,5<br>M48x2<br>M60x2,5                       |  |
| ER DIN 6499   |   |                       |  |                            |   |  |
|    |   |                       |  |                            |   |  |
|   |   |                       |  |                            | * = Sechskantmutter<br>* = Six side clamping nuts |  |
|   | Bestellnummer<br>part number                      | Lieferstatus<br>stock | Abmessung<br>size  | D                          | Gewinde<br>tap                                    |  |
|   | 113.02.10*<br>113.02.16<br>113.02.20<br>113.02.26 | ⊙<br>⊙<br>⊙<br>⊙      | ER16<br>ER25<br>ER32<br>ER40   | 28 sw 25<br>42<br>50<br>63 | M22x1,5<br>M32x1,5<br>M40x1,5<br>M50x1,5          |  |
| OZ  |   |                       |  |                            |   |  |
|  |   |                       |  |                            |   |  |
|   |   |                       |  |                            | xxx = d   |  |
|   | Bestellnummer<br>part number                      | Lieferstatus<br>stock | d<br>je 0.5mm  |                            |   |  |
|   | 01.16.xxx<br>01.25.xxx<br>01.32.xxx               | ⊙<br>⊙<br>⊙           | 3,0 - 6,0<br>6,5 - 16,0<br>3,0 - 6,0<br>6,5 - 25,0<br>3,0 - 6,0<br>6,5 - 32,0              |                            |   |  |
| ER  |   |                       |  |                            |   |  |
|  |   |                       |  |                            |   |  |
|   |   |                       |  |                            | xxx = d   |  |
|   | Bestellnummer<br>part number                      | Lieferstatus<br>stock | d<br>je 0.5mm  |                            |   |  |
|   | 02.10.xxx<br>02.16.xxx<br>02.20.xxx<br>02.26.xxx  | ⊙<br>⊙<br>⊙<br>⊙      | 3,0 - 6,0<br>6,5 - 10,0<br>3,0 - 6,0<br>6,5 - 16,0<br>3,0 - 6,0<br>6,5 - 20,0<br>3,0 - 6,0 |                            |   |  |

delivery time  
⊙ on stock, subject to prior sale  
⊖ not on stock, delivery time upon request

Lieferzeit  
⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
⊖ nicht lagerhaltig - Lieferzeit auf Anfrage

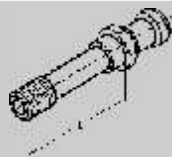
Anzugsbolzen  
pull studs  
Anzugsbolzen  
pull studs



| DIN 2080          |  | * mit zusätzlichem Innengewinde<br>* with additional / internal screw thread |                       |         |     |    |      |       |
|-------------------|--|--|-----------------------|---------|-----|----|------|-------|
| Abmessung<br>size |  | Bestellnummer<br>part number   | Lieferstatus<br>stock | D       | M   | I  | L    | h     |
| S20 x 2           |  | 401.20.16.S<br>401.20.16*<br>501.20.24*                                      | ⊙                     | S20 x 2 | M16 | 28 | 58   | -     |
| M16               |  |  | ⊙                     | 25      | M16 | 28 | 53   | 13,7  |
| M24               |  |  | ⊙                     | 39,2    | M24 | 40 | 65   | 13    |
| DIN 69872 A+B     |  | * Form B inkl. O-Ring<br>* Form B included O-ring                            |                       |         |     |    |      |       |
| Abmessung<br>size |  | Bestellnummer<br>part number   | Lieferstatus<br>stock | D       | M   | I  | L    | h     |
| M12               |  | 302.20.12  | ⊙                     | 13      | M12 | 20 | 44   | 19    |
| M16               |  | 402.20.16  | ⊙                     | 19      | M16 | 28 | 54   | 20    |
| M16               |  | 403.20.16*   | ⊙                     | 19      | M16 | 28 | 54   | 20    |
| M24               |  | 502.20.24  | ⊙                     | 28      | M24 | 40 | 74   | 25    |
| M24               |  | 503.20.24*   | ⊙                     | 28      | M24 | 40 | 74   | 25    |
| MAS BT            |  | * mit Durchgangsbohrung und O-Ring<br>* with through hole and O-ring         |                       |         |     |    |      |       |
| Abmessung<br>size |  | Bestellnummer<br>part number   | Lieferstatus<br>stock | D       | M   | I  | L    | h     |
| M12 - 45°         |  | 305.20.45  | ⊙                     | 11      | M12 | 20 | 43   | 18    |
| M16 - 45°         |  | 405.20.45  | ⊙                     | 15      | M16 | 25 | 60   | 28    |
| M24 - 45°         |  | 505.20.45  | ⊙                     | 23      | M24 | 40 | 85   | 35    |
| M12 - 60°         |  | 305.20.60  | ⊙                     | 11      | M12 | 20 | 43   | 18    |
| M16 - 60°         |  | 405.20.60  | ⊙                     | 15      | M16 | 25 | 60   | 28    |
| M24 - 60°         |  | 505.20.60  | ⊙                     | 23      | M24 | 40 | 85   | 35    |
| M16 - 90°         |  | 405.20.90  | ⊙                     | 15      | M16 | 25 | 60   | 28    |
| M24 - 90°         |  | 505.20.90  | ⊙                     | 23      | M24 | 40 | 85   | 35    |
| M16 - 45°         |  | 406.20.45*   | ⊙                     | 15      | M16 | 25 | 60   | 28    |
| M24 - 45°         |  | 506.20.45*   | ⊙                     | 23      | M24 | 40 | 85   | 35    |
| M16 - 60°         |  | 406.20.60*   | ⊙                     | 15      | M16 | 25 | 60   | 28    |
| M24 - 60°         |  | 506.20.60*   | ⊙                     | 23      | M24 | 40 | 85   | 35    |
| M16 - 90°         |  | 406.20.90*   | ⊙                     | 15      | M16 | 25 | 60   | 28    |
| M24 - 90°         |  | 506.20.90*   | ⊙                     | 23      | M24 | 40 | 85   | 35    |
| ISO 7388          |  |  |                       |         |     |    |      |       |
| Abmessung<br>size |  | Bestellnummer<br>part number   | Lieferstatus<br>stock | D       | M   | I  | L    | h     |
| M16               |  | 404.20.16  | ⊙                     | 19      | M16 | 28 | 44,5 | 11,15 |
| M24               |  | 504.20.24  | ⊙                     | 29      | M24 | 40 | 65   | 17,95 |

delivery time  
⊙ on stock, subject to prior sale  
⊕ not on stock, delivery time upon request

Lieferzeit  
⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
⊕ nicht lagerhaltig - Lieferzeit auf Anfrage



| Abmessung<br>size             | Bestellnummer<br>part number | Lieferstatus<br>stock | D   | M    | I   |
|-------------------------------|------------------------------|-----------------------|-----|------|-----|
| M16 mit Ringnut               | <b>401.20.16.02</b>          | ⊙                     | MK2 | M 10 | 75  |
| M16 mit Ringnut               | <b>401.20.16.03</b>          | ⊙                     | MK3 | M 12 | 78  |
| M16 mit Ringnut               | <b>401.20.16.04</b>          | ⊙                     | MK4 | M 16 | 90  |
| M24 mit Ringnut               | <b>501.20.24.02</b>          | ⊙                     | MK2 | M 10 | 120 |
| M24 mit Ringnut               | <b>501.20.24.03</b>          | ⊙                     | MK3 | M 12 | 110 |
| M24 mit Ringnut               | <b>501.20.24.04</b>          | ⊙                     | MK4 | M 16 | 110 |
| M24 mit Ringnut               | <b>501.20.24.05</b>          | ⊙                     | MK5 | M 20 | 110 |
| M16 DIN 69872 A               | <b>402.20.16.02</b>          | ⊙                     | MK2 | M 10 | 75  |
| M16 DIN 69872 A               | <b>402.20.16.03</b>          | ⊙                     | MK3 | M 12 | 78  |
| M16 DIN 69872 A               | <b>402.20.16.04</b>          | ⊙                     | MK4 | M 16 | 90  |
| M16 DIN 69872 B               | <b>403.20.16.02</b>          | ⊙                     | MK2 | M 10 | 75  |
| M16 DIN 69872 B               | <b>403.20.16.03</b>          | ⊙                     | MK3 | M 12 | 78  |
| M16 DIN 69872 B               | <b>403.20.16.04</b>          | ⊙                     | MK4 | M 16 | 90  |
| M24 DIN 69872 A               | <b>502.20.24.02</b>          | ⊙                     | MK2 | M 10 | 120 |
| M24 DIN 69872 A               | <b>502.20.24.03</b>          | ⊙                     | MK3 | M 12 | 110 |
| M24 DIN 69872 A               | <b>502.20.24.04</b>          | ⊙                     | MK4 | M 16 | 110 |
| M24 DIN 69872 A               | <b>502.20.24.05</b>          | ⊙                     | MK5 | M 20 | 110 |
| M24 DIN 69872 B               | <b>503.20.24.02</b>          | ⊙                     | MK2 | M 10 | 120 |
| M24 DIN 69872 B               | <b>503.20.24.03</b>          | ⊙                     | MK3 | M 12 | 110 |
| M24 DIN 69872 B               | <b>503.20.24.04</b>          | ⊙                     | MK4 | M 16 | 110 |
| M24 DIN 69872 B               | <b>503.20.24.05</b>          | ⊙                     | MK5 | M 20 | 110 |
| M16 - 45° JIS B 6339 (MAS BT) | <b>405.20.45.02</b>          | ⊙                     | MK2 | M 10 | 75  |
| M16 - 45° JIS B 6339 (MAS BT) | <b>405.20.45.03</b>          | ⊙                     | MK3 | M 12 | 78  |
| M16 - 45° JIS B 6339 (MAS BT) | <b>405.20.45.04</b>          | ⊙                     | MK4 | M 16 | 90  |
| M24 - 45° JIS B 6339 (MAS BT) | <b>505.20.45.02</b>          | ⊙                     | MK2 | M 10 | 120 |
| M24 - 45° JIS B 6339 (MAS BT) | <b>505.20.45.03</b>          | ⊙                     | MK3 | M 12 | 110 |
| M24 - 45° JIS B 6339 (MAS BT) | <b>505.20.45.04</b>          | ⊙                     | MK4 | M 16 | 110 |
| M24 - 45° JIS B 6339 (MAS BT) | <b>505.20.45.05</b>          | ⊙                     | MK5 | M 20 | 110 |
| M16 - 60° JIS B 6339 (MAS BT) | <b>405.20.60.02</b>          | ⊙                     | MK2 | M 10 | 75  |
| M16 - 60° JIS B 6339 (MAS BT) | <b>405.20.60.03</b>          | ⊙                     | MK3 | M 12 | 78  |
| M16 - 60° JIS B 6339 (MAS BT) | <b>405.20.60.04</b>          | ⊙                     | MK4 | M 16 | 90  |
| M24 - 60° JIS B 6339 (MAS BT) | <b>505.20.60.02</b>          | ⊙                     | MK2 | M 10 | 120 |
| M24 - 60° JIS B 6339 (MAS BT) | <b>505.20.60.03</b>          | ⊙                     | MK3 | M 12 | 110 |
| M24 - 60° JIS B 6339 (MAS BT) | <b>505.20.60.04</b>          | ⊙                     | MK4 | M 16 | 110 |
| M24 - 60° JIS B 6339 (MAS BT) | <b>505.20.60.05</b>          | ⊙                     | MK5 | M 20 | 110 |
| M16 - 90° JIS B 6339 (MAS BT) | <b>405.20.90.02</b>          | ⊙                     | MK2 | M 10 | 75  |
| M16 - 90° JIS B 6339 (MAS BT) | <b>405.20.90.03</b>          | ⊙                     | MK3 | M 12 | 78  |
| M16 - 90° JIS B 6339 (MAS BT) | <b>405.20.90.04</b>          | ⊙                     | MK4 | M 16 | 90  |
| M24 - 90° JIS B 6339 (MAS BT) | <b>505.20.90.02</b>          | ⊙                     | MK2 | M 10 | 120 |
| M24 - 90° JIS B 6339 (MAS BT) | <b>505.20.90.03</b>          | ⊙                     | MK3 | M 12 | 110 |
| M24 - 90° JIS B 6339 (MAS BT) | <b>505.20.90.04</b>          | ⊙                     | MK4 | M 16 | 110 |
| M24 - 90° JIS B 6339 (MAS BT) | <b>505.20.90.05</b>          | ⊙                     | MK5 | M 20 | 110 |
| M16 ISO 7388                  | <b>404.20.16.02</b>          | ⊙                     | MK2 | M 10 | 75  |
| M16 ISO 7388                  | <b>404.20.16.03</b>          | ⊙                     | MK3 | M 12 | 78  |
| M16 ISO 7388                  | <b>404.20.16.04</b>          | ⊙                     | MK4 | M 16 | 90  |
| M24 ISO 7388                  | <b>504.20.24.02</b>          | ⊙                     | MK2 | M 10 | 120 |
| M24 ISO 7388                  | <b>504.20.24.03</b>          | ⊙                     | MK3 | M 12 | 110 |
| M24 ISO 7388                  | <b>504.20.24.04</b>          | ⊙                     | MK4 | M 16 | 110 |
| M24 ISO 7388                  | <b>504.20.24.05</b>          | ⊙                     | MK5 | M 20 | 110 |

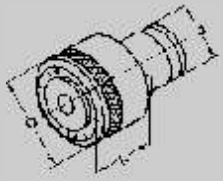
**delivery time**  
 ⊙ on stock, subject to prior sale  
 ⊕ not on stock, delivery time upon request  
**Lieferzeit**  
 ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
 ⊕ nicht lagerhaltig - Lieferzeit auf Anfrage

# Einsätze ohne Rutschkupplung tapping collets without clutch



| M3 - M14  |                              |                       |    |    |    |                 |                    |   |
|-----------|------------------------------|-----------------------|----|----|----|-----------------|--------------------|---|
|           |                              |                       |    |    |    |                 |                    |   |
|           | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | d  | l1 | Schaft<br>shaft | Vierkant<br>square | delivery time   |
|           | 16.01.3527                   | ⊙                     | 30 | 19 | 5  | 3,5             | 2,7                | ⊙ on stock, subject to prior sale<br>⊕ not on stock, delivery time upon request                   |
|           | 16.01.4534                   | ⊙                     | 30 | 19 | 5  | 4,5             | 3,4                |   |
|           | 16.01.1943                   | ⊙                     | 30 | 19 | 5  | 4,0             | 3,0                |   |
|           | 16.01.649                    | ⊙                     | 30 | 19 | 5  | 6,0             | 4,9                |   |
|           | 16.01.755                    | ⊙                     | 30 | 19 | 5  | 7,0             | 5,5                |   |
|           | 16.01.862                    | ⊙                     | 30 | 19 | 5  | 8,0             | 6,2                |   |
|           | 16.01.97                     | ⊙                     | 30 | 19 | 5  | 9,0             | 7,0                |   |
|           | 16.01.108                    | ⊙                     | 30 | 19 | 5  | 10,0            | 8,0                |   |
|           | 16.01.119                    | ⊙                     | 30 | 19 | 5  | 11,0            | 9,0                |   |
| M5 - M22  |                              |                       |    |    |    |                 |                    |   |
|           |                              |                       |    |    |    |                 |                    |   |
|           | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | d  | l1 | Schaft<br>shaft | Vierkant<br>square | Lieferzeit  |
|           | 16.02.649                    | ⊙                     | 48 | 31 | 6  | 6               | 4,9                | ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten<br>⊕ nicht lagerfähig - Lieferzeit auf Anfrage |
|           | 16.02.755                    | ⊙                     | 48 | 31 | 6  | 7               | 5,5                |   |
|           | 16.02.862                    | ⊙                     | 48 | 31 | 6  | 8               | 6,2                |   |
|           | 16.02.97                     | ⊙                     | 48 | 31 | 6  | 9               | 7,0                |   |
|           | 16.02.108                    | ⊙                     | 48 | 31 | 6  | 10              | 8,0                |   |
|           | 16.02.119                    | ⊙                     | 48 | 31 | 6  | 11              | 9,0                |   |
|           | 16.02.129                    | ⊙                     | 48 | 31 | 6  | 12              | 9,0                |   |
|           | 16.02.1411                   | ⊙                     | 48 | 31 | 6  | 14              | 11,0               |   |
|           | 16.02.1612                   | ⊙                     | 48 | 31 | 6  | 16              | 12,0               |   |
|           | 16.02.18145                  | ⊙                     | 48 | 31 | 6  | 18              | 14,5               |   |
| M14 - M36 |                              |                       |    |    |    |                 |                    |   |
|           |                              |                       |    |    |    |                 |                    |   |
|           | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | d  | l1 | Schaft<br>shaft | Vierkant<br>square |   |
|           | 16.03.119                    | ⊙                     | 63 | 48 | 6  | 11              | 9,0                |   |
|           | 16.03.129                    | ⊙                     | 63 | 48 | 6  | 12              | 9,0                |   |
|           | 16.03.1411                   | ⊙                     | 63 | 48 | 6  | 14              | 11,0               |   |
|           | 16.03.1612                   | ⊙                     | 63 | 48 | 6  | 16              | 12,0               |   |
|           | 16.03.18145                  | ⊙                     | 63 | 48 | 6  | 18              | 14,5               |   |
|           | 16.03.16                     | ⊙                     | 63 | 48 | 6  | 20              | 16,0               |   |
|           | 16.03.18                     | ⊙                     | 63 | 48 | 6  | 22              | 18,0               |   |
|           | 16.03.20                     | ⊙                     | 63 | 48 | 6  | 25              | 20,0               |   |
|           | 16.03.2822                   | ⊙                     | 63 | 48 | 6  | 28              | 22,0               |   |

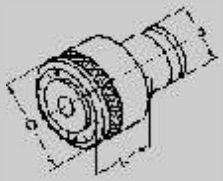
**M3 - M14**



| M    | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | d  | l1 | DIN | Schaft<br>shaft | Vierkant<br>square |
|------|------------------------------|-----------------------|----|----|----|-----|-----------------|--------------------|
| M3   | 16.11.335                    | ⊙                     | 32 | 19 | 25 | 371 | 3,5             | 2,7                |
| M3,5 | 16.11.354                    | ⊙                     | 32 | 19 | 25 | 371 | 4,0             | 3,0                |
| M4   | 16.11.445                    | ⊙                     | 32 | 19 | 25 | 371 | 4,5             | 3,4                |
| M5   | 16.11.5649                   | ⊙                     | 32 | 19 | 25 | 371 | 6,0             | 7,9                |
| M6   | 16.11.6649                   | ⊙                     | 32 | 19 | 25 | 371 | 6,0             | 4,9                |
| M8   | 16.11.88                     | ⊙                     | 32 | 19 | 25 | 371 | 8,0             | 6,2                |
| M10  | 16.11.107                    | ⊙                     | 32 | 19 | 25 | 376 | 7,0             | 5,5                |
| M10  | 16.11.1010                   | ⊙                     | 32 | 19 | 25 | 376 | 10,0            | 8,0                |
| M12  | 16.11.129                    | ⊙                     | 32 | 19 | 25 | 371 | 9,0             | 7,0                |
| M14  | 16.11.14119                  | ⊙                     | 32 | 19 | 25 | 376 | 11,0            | 9,0                |

**delivery time**  
 ⊙ on stock, subject to prior sale  
 ⊕ not on stock, delivery time upon request

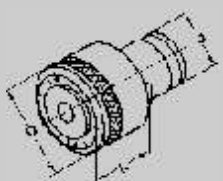
**M5 - M22**



| M   | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | d  | l1 | DIN | Schaft<br>shaft | Vierkant<br>square |
|-----|------------------------------|-----------------------|----|----|----|-----|-----------------|--------------------|
| M5  | 16.12.5649                   | ⊙                     | 50 | 31 | 31 | 371 | 6,0             | 4,9                |
| M6  | 16.12.6649                   | ⊙                     | 50 | 31 | 31 | 371 | 6,0             | 4,9                |
| M8  | 16.12.88                     | ⊙                     | 50 | 31 | 31 | 371 | 8,0             | 6,2                |
| M10 | 16.12.107                    | ⊙                     | 50 | 31 | 31 | 376 | 7,0             | 5,5                |
| M10 | 16.12.1010                   | ⊙                     | 50 | 31 | 31 | 371 | 10,0            | 8,0                |
| M12 | 16.12.129                    | ⊙                     | 50 | 31 | 31 | 376 | 9,0             | 7,0                |
| M14 | 16.12.1411                   | ⊙                     | 50 | 31 | 31 | 376 | 11,0            | 9,0                |
| M16 | 16.12.1612                   | ⊙                     | 50 | 31 | 31 | 376 | 12,0            | 9,0                |
| M18 | 16.12.181411                 | ⊙                     | 50 | 31 | 31 | 376 | 14,0            | 11,0               |
| M20 | 16.12.2016                   | ⊙                     | 50 | 31 | 31 | 376 | 16,0            | 12,0               |
| M22 | 16.12.2218145                | ⊙                     | 50 | 31 | 31 | 376 | 18,0            | 14,5               |

**Lieferzeit**  
 ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
 ⊕ nicht lagerhaltig - Lieferzeit auf Anfrage


**M14 - M36**




| M   | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | d  | l1 | DIN | Schaft<br>shaft | Vierkant<br>square |
|-----|------------------------------|-----------------------|----|----|----|-----|-----------------|--------------------|
| M14 | 16.13.1411                   | ⊙                     | 72 | 48 | 41 | 376 | 11              | 9,0                |
| M16 | 16.13.1612                   | ⊙                     | 72 | 48 | 41 | 376 | 12              | 9,0                |
| M18 | 16.13.1814                   | ⊙                     | 72 | 48 | 41 | 376 | 14              | 11,0               |
| M20 | 16.13.2216                   | ⊙                     | 72 | 49 | 41 | 376 | 16              | 12,0               |
| M22 | 16.13.2218                   | ⊙                     | 72 | 48 | 41 | 376 | 18              | 14,5               |
| M24 | 16.13.2418145                | ⊙                     | 72 | 48 | 41 | 376 | 18              | 14,5               |
| M27 | 16.13.2720                   | ⊙                     | 72 | 48 | 41 | 376 | 20              | 16,0               |
| M30 | 16.13.3022                   | ⊙                     | 72 | 48 | 41 | 376 | 22              | 18,0               |
| M33 | 16.13.3325                   | ⊙                     | 72 | 48 | 41 | 376 | 25              | 20,0               |
| M36 | 16.13.3628                   | ⊙                     | 72 | 48 | 41 | 376 | 28              | 22,0               |

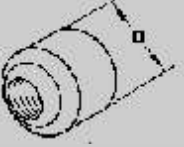
# Gewindebohrhalter ohne Rutschkupplung Tapeholder without plainshank

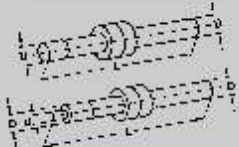


| DIN 1835B |                              | Zylinderschaft<br>Cylinder shank  |    |      |      |      |
|-----------|------------------------------|---|----|------|------|------|
|           |                              |  |    |      |      |      |
|           | Bestellnummer<br>part number | Lieferstatus<br>stock   | D  | d    | □    | L    |
|           | 16.16.3527                   | ⊙   | 16 | 3,5  | 2,7  | 56,0 |
|           | 16.16.4030                   | ⊙   | 16 | 4,0  | 3,0  | 56,0 |
|           | 16.16.4534                   | ⊙   | 16 | 4,5  | 3,4  | 56,0 |
|           | 16.16.649                    | ⊙   | 16 | 6,0  | 4,9  | 56,0 |
|           | 16.20.4534                   | ⊙   | 20 | 4,5  | 3,4  | 58,0 |
|           | 16.20.649                    | ⊙   | 20 | 6,0  | 4,9  | 58,0 |
|           | 16.20.862                    | ⊙   | 20 | 8,0  | 6,2  | 58,0 |
|           | 16.20.755                    | ⊙   | 20 | 7,0  | 5,5  | 58,0 |
|           | 16.20.108                    | ⊙   | 20 | 10,0 | 8,0  | 58,0 |
|           | 16.20.97                     | ⊙   | 20 | 9,0  | 7,0  | 58,0 |
|           | 16.25.4534                   | ⊙   | 25 | 4,5  | 3,4  | 66,0 |
|           | 16.25.649                    | ⊙   | 25 | 6,0  | 4,9  | 66,0 |
|           | 16.25.862                    | ⊙   | 25 | 8,0  | 6,2  | 66,0 |
|           | 16.25.755                    | ⊙   | 25 | 7,0  | 5,5  | 66,0 |
|           | 16.25.108                    | ⊙   | 25 | 10,0 | 8,0  | 66,0 |
|           | 16.25.97                     | ⊙   | 25 | 9,0  | 7,0  | 66,0 |
|           | 16.25.119                    | ⊙   | 25 | 11,0 | 9,0  | 66,0 |
|           | 16.25.129                    | ⊙   | 25 | 12,0 | 9,0  | 66,0 |
|           | 16.32.649                    | ⊙   | 32 | 6,0  | 4,9  | 70,0 |
|           | 16.32.862                    | ⊙   | 32 | 8,0  | 6,2  | 70,0 |
|           | 16.32.755                    | ⊙   | 32 | 7,0  | 5,5  | 70,0 |
|           | 16.32.108                    | ⊙   | 32 | 10,0 | 8,0  | 70,0 |
|           | 16.32.97                     | ⊙   | 32 | 9,0  | 7,0  | 70,0 |
|           | 16.32.119                    | ⊙   | 32 | 11,0 | 9,0  | 70,0 |
|           | 16.32.129                    | ⊙   | 32 | 12,0 | 9,0  | 70,0 |
|           | 16.32.1411                   | ⊙   | 32 | 14,0 | 11,0 | 70,0 |
|           | 16.32.1612                   | ⊙   | 32 | 16,0 | 12,0 | 70,0 |
|           | 16.32.18145                  | ⊙   | 32 | 18,0 | 14,5 | 70,0 |


**Lieferzeit**  
 ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
 ⊙ on stock, subject to prior sale  
 ⊕ nicht lagerhaltig - Lieferzeit auf Anfrage  
 ⊕ not on stock, delivery time upon request

| DIN 1835 B |                              | Spannschraube für Weldon Spannfüter<br>Clamping screw Weldon                        |    |           |  |
|------------|------------------------------|---|----|-----------|--|
|            |                              |  |    |           |  |
| M          | Bestellnummer<br>part number | Lieferstatus<br>stock   | L  | D         |  |
| M6         | 101.04.06                    | ⊙   | 10 | 6         |  |
| M8         | 101.04.08                    | ⊙   | 10 | 8         |  |
| M10        | 101.04.10                    | ⊙   | 12 | 10        |  |
| M12        | 101.04.12                    | ⊙   | 16 | 12 und 14 |  |
| M14        | 101.04.16                    | ⊙   | 16 | 16 und 18 |  |
| M16        | 101.04.20                    | ⊙   | 16 | 20        |  |
| M18x2      | 101.04.25                    | ⊙   | 20 | 25        |  |
| M20x2x20   | 101.04.32                    | ⊙   | 20 | 32        |  |
| M20x2x25   | 101.04.40                    | ⊙   | 25 | 40        |  |


|  |                              | Kunststoff-Kugelspritzdüse<br>Plastic ball sprayer nozzle                           |    |  |
|--|------------------------------|---|----|--|
|  |                              |  |    |  |
|  | Bestellnummer<br>part number | Lieferstatus<br>stock   | D  |  |
|  | 703.08                       | ⊙   | 8  |  |
|  | 703.10                       | ⊙   | 10 |  |
|  | 703.12                       | ⊙   | 12 |  |



|                   |                              |                       |    | Kantentaster mechanisch<br>Edge finder mechanical |   |  |
|-------------------|------------------------------|-----------------------|----|---|---|--|
| Abmessung<br>Size | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | L   | d |  |
| 10 - 84 - 10      | <b>702.10</b>                | ☉                     | 10 | 84  | - |  |
| 10 - 94 - 10/4    | <b>702.10/4</b>              | ☉                     | 10 | 94  | 4 |  |




|                   |                              |                       |    | Kantentaster elektronisch 3D<br>Edge finder electronic 3D |    |  |
|-------------------|------------------------------|-----------------------|----|---|----|--|
| Abmessung<br>Size | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | L   | d  |  |
| 16 - 110 - 10     | <b>702.3.16</b>              | ☉                     | 16 | 110   | 10 |  |
| 20 - 106 - 10     | <b>702.3.20</b>              | ☉                     | 20 | 106   | 10 |  |



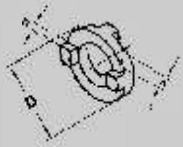
|                   |                              |                       |     | Kantentaster elektronisch 2D<br>Edge finder electronic 2D |    |  |
|-------------------|------------------------------|-----------------------|-----|---|----|--|
| Abmessung<br>Size | Bestellnummer<br>part number | Lieferstatus<br>stock | D   | L   | d  |  |
| MK2 - 160 - 10    | <b>702.02</b>                | ☉                     | MK2 | 160   | 10 |  |
| 16 - 100 - 10     | <b>702.16</b>                | ☉                     | 16  | 100   | 10 |  |
| 20 - 160 - 10     | <b>702.20</b>                | ☉                     | 20  | 160   | 10 |  |

DIN 6368



|                   |                              |                       |   | Spannschlüssel für Aufsteckdorne<br>wrench |   |  |
|-------------------|------------------------------|-----------------------|---|--|---|--|
| Abmessung<br>Size | Bestellnummer<br>part number | Lieferstatus<br>stock | D | L  | d |  |
| 16 / M8           | <b>10.16</b>                 | ☉                     |   |  |   |  |
| 22 / M10          | <b>10.22</b>                 | ☉                     |   |  |   |  |
| 27 / M12          | <b>10.27</b>                 | ☉                     |   |  |   |  |
| 32 / M16          | <b>10.32</b>                 | ☉                     |   |  |   |  |
| 40 / M20          | <b>10.40</b>                 | ☉                     |   |  |   |  |

DIN 6366



|    |                              |                       |    | Mitnehmerring<br>Clutch drive rings |    |     |  |
|----|------------------------------|-----------------------|----|-------------------------------------|----|-----|--|
| d  | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | a                                   | b  | h   |  |
| 16 | <b>101.10.16</b>             | ☉                     | 32 | 10                                  | 8  | 5   |  |
| 22 | <b>101.10.22</b>             | ☉                     | 40 | 12                                  | 10 | 5,6 |  |
| 27 | <b>101.10.27</b>             | ☉                     | 46 | 12                                  | 12 | 6,3 |  |
| 32 | <b>101.10.32</b>             | ☉                     | 55 | 14                                  | 14 | 7   |  |
| 40 | <b>101.10.40</b>             | ☉                     | 68 | 14                                  | 16 | 8   |  |

delivery time  
☉ on stock, subject to prior sale  
☐ not on stock, delivery time upon request

Lieferzeit  
☉ ab Lager lieferbar - Zwischenverkauf vorbehalten  
☐ nicht lagerhaltig - Lieferzeit auf Anfrage

# Fräseranzugsschrauben draw-in bolt



**DIN 6367**

**Durchbohrt für Kühlmittelzufuhr**  
**Boring for coolant**

| d   | Bestellnummer<br>part number | Lieferstatus<br>stock | D  | a  | b  | h  |
|-----|------------------------------|-----------------------|----|----|----|----|
| M8  | 102.10.16                    | ⊙                     | 16 | 20 | 6  | 16 |
| M10 | 102.10.22                    | ⊙                     | 22 | 28 | 7  | 18 |
| M12 | 102.10.27                    | ⊙                     | 27 | 35 | 8  | 22 |
| M16 | 102.10.32                    | ⊙                     | 32 | 42 | 6  | 26 |
| M20 | 102.10.40                    | ⊙                     | 40 | 52 | 10 | 30 |
| M24 | 102.10.50                    | ⊙                     | 50 | 63 | 12 | 36 |
| M30 | 102.10.60                    | ⊙                     | 60 | 75 | 14 | 45 |
| M8  | 102.11.16                    | ⊙                     | 16 | 20 | 6  | 16 |
| M10 | 102.11.22                    | ⊙                     | 22 | 28 | 7  | 18 |
| M12 | 102.11.27                    | ⊙                     | 27 | 35 | 8  | 22 |
| M16 | 102.11.32                    | ⊙                     | 32 | 42 | 6  | 26 |
| M20 | 102.11.40                    | ⊙                     | 40 | 52 | 10 | 30 |
| M24 | 102.11.50                    | ⊙                     | 50 | 63 | 12 | 36 |
| M30 | 102.11.60                    | ⊙                     | 60 | 75 | 14 | 45 |

**DIN 1810A OZ**

**Hakenschlüssel - Spannmutter**  
**Wrench**

| Bestellnummer<br>part number | Lieferstatus<br>stock | D      | a  |
|------------------------------|-----------------------|--------|----|
| 01.16                        | ⊙                     | 2 - 16 | 40 |
| 01.25                        | ⊙                     | 2 - 25 | 58 |
| 01.32                        | ⊙                     | 3 - 32 | 68 |

**ER**

**Spannschlüssel für Spannmuttern**  
**Wrench**

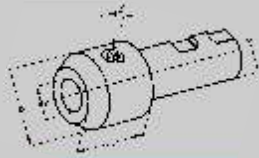
| Bestellnummer<br>part number | Lieferstatus<br>stock | D             | a        |
|------------------------------|-----------------------|---------------|----------|
| 02.10*                       | ⊙                     | 1 - 10 (ER16) | 28 sw 25 |
| 02.10.1                      | ⊙                     | 1 - 10 (ER16) | 32       |
| 02.10.2                      | ⊙                     | 1 - 10 (ER16) | 30 sw 27 |
| 02.16                        | ⊙                     | 2 - 16 (ER25) | 42       |
| 02.20                        | ⊙                     | 2 - 20 (ER32) | 50       |
| 02.26                        | ⊙                     | 2 - 26 (ER40) | 63       |

**Sägeblattaufnahme**  
**Saw blade holder**

| Sägeblattdurchmesser<br>saw blade diameter | Bestellnummer<br>part number | Lieferstatus<br>stock | D       | a  | d1 | L   |
|--|------------------------------|-----------------------|---------|----|----|-----|
| 20 - 05                                    | 121.10.05                    | ⊙                     | 20      | 20 | 5  | 90  |
| 20 - 08                                    | 121.10.08                    | ⊙                     | 25 / 32 | 20 | 8  | 100 |
| 20 - 10                                    | 121.10.10                    | ⊙                     | 40      | 20 | 10 | 110 |
| 25 - 13                                    | 121.10.13                    | ⊙                     | 50      | 25 | 13 | 135 |
| 25 - 16                                    | 121.10.16                    | ⊙                     | 63      | 25 | 16 | 135 |
| Kompl. Satz im Holzsockel                  | 121.10.00                    | ⊙                     |         |    |    |     |

**Lieferzeit**  
 ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
 ⊙ on stock, subject to prior sale  
 ⊕ nicht lagerhaltig - Lieferzeit auf Anfrage  
 ⊕ not on stock, delivery time upon request

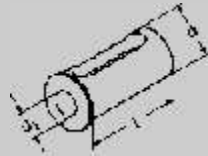
DIN 1835B für E



## Reduziereinsätze für Zylinderschäfte Reduction bushes

| Abmessung<br>Size | Bestellnummer<br>part number | Lieferstatus<br>stock | d  | d1 | D  | L1 |
|-------------------|------------------------------|-----------------------|----|----|----|----|
| 20 - 06           | 122.20.06                    | ⊙                     | 20 | 6  | 25 | 30 |
| 20 - 08           | 122.20.08                    | ⊙                     | 20 | 8  | 28 | 30 |
| 20 - 10           | 122.20.10                    | ⊙                     | 20 | 10 | 35 | 30 |
| 20 - 12           | 122.20.12                    | ⊙                     | 20 | 12 | 42 | 35 |
| 32 - 06           | 122.32.06                    | ⊙                     | 32 | 6  | 25 | 30 |
| 32 - 08           | 122.32.08                    | ⊙                     | 32 | 8  | 28 | 30 |
| 32 - 10           | 122.32.10                    | ⊙                     | 32 | 10 | 35 | 30 |
| 32 - 12           | 122.32.12                    | ⊙                     | 32 | 12 | 42 | 35 |
| 32 - 14           | 122.32.14                    | ⊙                     | 32 | 14 | 44 | 35 |
| 32 - 16           | 122.32.16                    | ⊙                     | 32 | 16 | 48 | 38 |
| 32 - 18           | 122.32.18                    | ⊙                     | 32 | 18 | 50 | 38 |
| 32 - 20           | 122.32.20                    | ⊙                     | 32 | 20 | 52 | 40 |

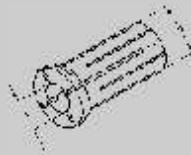
delivery time  
⊙ on stock, subject to prior sale  
⊖ not on stock, delivery time upon request



## Reduzierbuchsen für Bohrstangenhalter Reduction bushes for boring bar holder

| Bestellnummer<br>part number | Lieferstatus<br>stock | d  | d1 | l  |
|------------------------------|-----------------------|----|----|----|
| 709.25.06                    | ⊙                     | 25 | 6  | 50 |
| 709.25.08                    | ⊙                     | 25 | 8  | 50 |
| 709.25.10                    | ⊙                     | 25 | 10 | 50 |
| 709.25.12                    | ⊙                     | 25 | 12 | 50 |
| 709.25.16                    | ⊙                     | 25 | 16 | 50 |
| 709.25.20                    | ⊙                     | 25 | 20 | 50 |
| 709.32.06                    | ⊙                     | 32 | 6  | 70 |
| 709.32.08                    | ⊙                     | 32 | 8  | 70 |
| 709.32.10                    | ⊙                     | 32 | 10 | 70 |
| 709.32.12                    | ⊙                     | 32 | 12 | 70 |
| 709.32.16                    | ⊙                     | 32 | 16 | 70 |
| 709.32.20                    | ⊙                     | 32 | 20 | 70 |
| 709.32.25                    | ⊙                     | 32 | 25 | 70 |
| 709.40.06                    | ⊙                     | 40 | 6  | 80 |
| 709.40.08                    | ⊙                     | 40 | 8  | 80 |
| 709.40.10                    | ⊙                     | 40 | 10 | 80 |
| 709.40.12                    | ⊙                     | 40 | 12 | 80 |
| 709.40.16                    | ⊙                     | 40 | 16 | 80 |
| 709.40.20                    | ⊙                     | 40 | 20 | 80 |
| 709.40.25                    | ⊙                     | 40 | 25 | 80 |
| 709.40.32                    | ⊙                     | 40 | 32 | 80 |

Lieferzeit  
⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
⊖ nicht lagerhaltig - Lieferzeit auf Anfrage



## Reduzierungen für Hydropansnfutter Reducing arbors for hydraulic expansion chucks

| Bestellnummer<br>part number | Lieferstatus<br>stock | D  | d  |
|------------------------------|-----------------------|----|----|
| R20-040                      | ⊙                     | 20 | 4  |
| R20-050                      | ⊙                     | 20 | 5  |
| R20-060                      | ⊙                     | 20 | 6  |
| R20-080                      | ⊙                     | 20 | 8  |
| R20-100                      | ⊙                     | 20 | 10 |
| R20-120                      | ⊙                     | 20 | 12 |
| R20-140                      | ⊙                     | 20 | 14 |
| R20-160                      | ⊙                     | 20 | 16 |

# Bohrfutter drill chuck



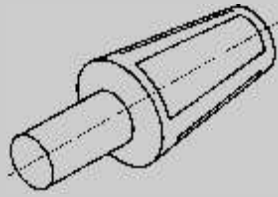
|  |   |                            |   | Bohrfutter<br>drill chuck                                     |  |  |
|--|---|----------------------------|---|---|--|--|
| Spannbereich<br>capacity                               | Bestellnummer<br>part number  | Lieferstatus<br>stock      | B   | D   | L  |  |
| 0 - 13<br>3 - 16                                       | <b>14.13.B16</b><br><b>14.16.B16</b>  | ⊙<br>⊙                     | B16<br>B16  | 50<br>57  | 70<br>70                                     |  |
|  |   |                            |   | NC-Bohrfutter System WTE<br>NC-drill chuck system WTE         |  |  |
| Spannbereich<br>capacity                               | Bestellnummer<br>part number  | Lieferstatus<br>stock      | B   | D   | L  |  |
| 0,5 - 8<br>1 - 13<br>3 - 16                            | <b>15.08.B12</b><br><b>15.13.B16</b><br><b>15.16.B16</b>  | ⊙<br>⊙<br>⊙                | B12<br>B16<br>B16   | 30<br>50<br>57  | 76<br>102<br>102                             |  |
|  |   |                            |   | Kühlmittelübergabeeinheit<br>delivery unit for coolant        |  |  |
| D  | Bestellnummer<br>part number  | Lieferstatus<br>stock      | HSK   | d   | L  |  |
| M10x1<br>M12x1<br>M16x1<br>M18x1<br>M20x1,5<br>M24x1,5 | <b>A32.700</b><br><b>A40.700</b><br><b>A50.700</b><br><b>A63.700</b><br><b>A80.700</b><br><b>A100.700</b> | ⊙<br>⊙<br>⊙<br>⊙<br>⊙<br>⊙ | HSK 32<br>HSK 40<br>HSK 50<br>HSK 63<br>HSK 80<br>HSK 100 | 6<br>8<br>10<br>12<br>14<br>16                                | 26,0<br>29,5<br>33,0<br>34,5<br>40,0<br>44,0 |  |
|  |   |                            |   | Schlüssel für Übergabeeinheit<br>socket wrench for connection |  |  |
|  | Bestellnummer<br>part number  | Lieferstatus<br>stock      | HSK   | D   | L  |  |
|  | <b>A32.701</b><br><b>A40.701</b><br><b>A50.701</b><br><b>A63.701</b><br><b>A80.701</b><br><b>A100.701</b> | ⊙<br>⊙<br>⊙<br>⊙<br>⊙<br>⊙ | HSK 32<br>HSK 40<br>HSK 50<br>HSK 63<br>HSK 80<br>HSK 100 | 8,5<br>10,5<br>14,5<br>16,5<br>18,5<br>22,0                   | 115<br>115<br>115<br>136<br>136<br>136       |  |

delivery time

⊙ on stock, subject to prior sale  
⊙ not on stock, delivery time upon request

Lieferzeit

⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
⊙ nicht lagerhaltig - Lieferzeit auf Anfrage



**Kegelwischer  
Taper wiper**

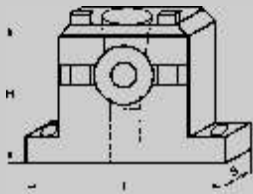
Bestellnummer  
part number

Lieferstatus  
stock

HSK

|             |   |         |
|-------------|---|---------|
| 710.01      | ⊙ | MK 1    |
| 710.02      | ⊙ | MK 2    |
| 710.03      | ⊙ | MK 3    |
| 710.04      | ⊙ | MK 4    |
| 710.05      | ⊙ | MK 5    |
| 710.30      | ⊙ | SK 30   |
| 710.40      | ⊙ | SK 40   |
| 710.50      | ⊙ | SK 50   |
| 710.32.HSK  | ⊙ | HSK 32  |
| 710.40.HSK  | ⊙ | HSK 40  |
| 710.50.HSK  | ⊙ | HSK 50  |
| 710.63.HSK  | ⊙ | HSK 63  |
| 710.80.HSK  | ⊙ | HSK 80  |
| 710.100.HSK | ⊙ | HSK 100 |

**delivery time**  
⊙ on stock, subject to prior sale  
⊖ not on stock, delivery time upon request



**Montageblock aus Aluminium  
tightening fixtures aluminium**

Bestellnummer  
part number

Lieferstatus  
stock

Abmessung  
Size

L

H

B

|        |   |       |     |     |    |
|--------|---|-------|-----|-----|----|
| 700.30 | ⊙ | SK 30 | 160 | 115 | 62 |
| 700.40 | ⊙ | SK 40 | 160 | 115 | 62 |
| 700.50 | ⊙ | SK 50 | 180 | 155 | 97 |

**Lieferzeit**  
⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
⊖ nicht lagerhaltig - Lieferzeit auf Anfrage



**Montageblock aus Stahl schwenkbar  
universale assembly steel block**

Bestellnummer  
part number

Lieferstatus  
stock

Abmessung  
Size

L

H

B

|        |   |         |     |     |     |
|--------|---|---------|-----|-----|-----|
| 705.30 | ⊙ | SK 30   | 160 | 128 | 70  |
| 705.40 | ⊙ | SK 40   | 160 | 128 | 70  |
| 705.50 | ⊙ | SK 50   | 180 | 170 | 85  |
| 709.16 | ⊙ | VDI 16  | 160 | 128 | 70  |
| 709.20 | ⊙ | VDI 20  | 160 | 128 | 70  |
| 709.25 | ⊙ | VDI 25  | 160 | 128 | 70  |
| 709.30 | ⊙ | VDI 30  | 160 | 128 | 70  |
| 709.40 | ⊙ | VDI 40  | 180 | 170 | 85  |
| 709.50 | ⊙ | VDI 50  | 180 | 170 | 100 |
| 708.32 | ⊙ | HSK 32  | 160 | 128 | 70  |
| 708.40 | ⊙ | HSK 40  | 160 | 128 | 70  |
| 708.50 | ⊙ | HSK 50  | 160 | 128 | 70  |
| 708.63 | ⊙ | HSK 63  | 160 | 128 | 70  |
| 708.80 | ⊙ | HSK 80  | 180 | 170 | 85  |
| 708.10 | ⊙ | HSK 100 | 180 | 170 | 85  |

|                   |                              |                       |                   | Tischwerkzeuggestell<br>table tool rack |     |     |
|-------------------|------------------------------|-----------------------|-------------------|---|-----|-----|
| Abmessung<br>Size | Bestellnummer<br>part number | Lieferstatus<br>stock | Abmessung<br>Size | B                                       | T   | H   |
| SK 30             | 793.30                       | ⊙                     | 21                | 700                                     | 700 | 500 |
| SK 40             | 793.40                       | ⊙                     | 18                | 700                                     | 700 | 500 |
| SK 50             | 793.50                       | ⊙                     | 15                | 700                                     | 700 | 500 |
| VDI 16            | 794.16                       | ⊙                     | 21                | 700                                     | 700 | 500 |
| VDI 20            | 794.20                       | ⊙                     | 21                | 700                                     | 700 | 500 |
| VDI 25            | 794.25                       | ⊙                     | 21                | 700                                     | 700 | 500 |
| VDI 30            | 794.30                       | ⊙                     | 21                | 700                                     | 700 | 500 |
| VDI 40            | 794.40                       | ⊙                     | 18                | 700                                     | 700 | 500 |
| VDI 50            | 794.50                       | ⊙                     | 15                | 700                                     | 700 | 500 |
| HSK 32            | 795.32                       | ⊙                     | 21                | 700                                     | 700 | 500 |
| HSK 40            | 795.40                       | ⊙                     | 21                | 700                                     | 700 | 500 |
| HSK 50            | 795.50                       | ⊙                     | 21                | 700                                     | 700 | 500 |
| HSK 63            | 795.63                       | ⊙                     | 18                | 700                                     | 700 | 500 |
| HSK 80            | 795.80                       | ⊙                     | 15                | 700                                     | 700 | 500 |
| HSK 100           | 795.100                      | ⊙                     | 15                | 700                                     | 700 | 500 |

|                   |                              |                       |                   | Transport und Werkzeugwagen<br>Tool transport trolley |     |      |
|-------------------|------------------------------|-----------------------|-------------------|---|-----|------|
| Abmessung<br>Size | Bestellnummer<br>part number | Lieferstatus<br>stock | Abmessung<br>Size | B   | T   | H    |
| SK 30             | 790.30                       | ⊙                     | 70                | 700   | 400 | 1350 |
| SK 40             | 790.40                       | ⊙                     | 60                | 700   | 400 | 1350 |
| SK 50             | 790.50                       | ⊙                     | 50                | 700   | 400 | 1350 |
| VDI 16            | 791.16                       | ⊙                     | 70                | 700   | 400 | 1350 |
| VDI 20            | 791.20                       | ⊙                     | 70                | 700   | 400 | 1350 |
| VDI 25            | 791.25                       | ⊙                     | 70                | 700   | 400 | 1350 |
| VDI 30            | 791.30                       | ⊙                     | 70                | 700   | 400 | 1350 |
| VDI 40            | 791.40                       | ⊙                     | 60                | 700   | 400 | 1350 |
| VDI 50            | 791.50                       | ⊙                     | 50                | 700   | 400 | 1350 |
| HSK 32            | 792.32                       | ⊙                     | 70                | 700   | 400 | 1350 |
| HSK 40            | 792.40                       | ⊙                     | 70                | 700   | 400 | 1350 |
| HSK 50            | 792.50                       | ⊙                     | 70                | 700   | 400 | 1350 |
| HSK 63            | 792.63                       | ⊙                     | 60                | 700   | 400 | 1350 |
| HSK 80            | 792.80                       | ⊙                     | 50                | 700   | 400 | 1350 |
| HSK 100           | 792.100                      | ⊙                     | 50                | 700   | 400 | 1350 |

| Abmessung<br>Size | Bestellnummer<br>part number | Lieferstatus<br>stock | Abmessung<br>Size | B   | T   | H    |
|-------------------|------------------------------|-----------------------|-------------------|-----|-----|------|
| SK 30             | 790.30                       | ⊙                     | 70                | 700 | 400 | 1350 |
| SK 40             | 790.40                       | ⊙                     | 60                | 700 | 400 | 1350 |
| SK 50             | 790.50                       | ⊙                     | 50                | 700 | 400 | 1350 |
| VDI 16            | 791.16                       | ⊙                     | 70                | 700 | 400 | 1350 |
| VDI 20            | 791.20                       | ⊙                     | 70                | 700 | 400 | 1350 |
| VDI 25            | 791.25                       | ⊙                     | 70                | 700 | 400 | 1350 |
| VDI 30            | 791.30                       | ⊙                     | 70                | 700 | 400 | 1350 |
| VDI 40            | 791.40                       | ⊙                     | 60                | 700 | 400 | 1350 |
| VDI 50            | 791.50                       | ⊙                     | 50                | 700 | 400 | 1350 |
| HSK 32            | 792.32                       | ⊙                     | 70                | 700 | 400 | 1350 |
| HSK 40            | 792.40                       | ⊙                     | 70                | 700 | 400 | 1350 |
| HSK 50            | 792.50                       | ⊙                     | 70                | 700 | 400 | 1350 |
| HSK 63            | 792.63                       | ⊙                     | 60                | 700 | 400 | 1350 |
| HSK 80            | 792.80                       | ⊙                     | 50                | 700 | 400 | 1350 |
| HSK 100           | 792.100                      | ⊙                     | 50                | 700 | 400 | 1350 |

|  |  |  |  | WD 40<br>WD 40  |  |  |
|--|--|--|--|---|--|--|
|  |  |  |  | Verdrängt Feuchtigkeit, durchdringt Rost, schützt Metall, reinigt und schmiert.<br>Displaces moisture, penetrates scale of iron, protects metal, cleans and greases |  |  |

| Abmessung<br>Size | Bestellnummer<br>part number | Lieferstatus<br>stock | Abmessung<br>Size | B | T | H |
|-------------------|------------------------------|-----------------------|-------------------|---|---|---|
|                   | 760.400                      | ⊙                     | 400ml             |   |   |   |
|                   | 760.500                      | ⊙                     | 5 Liter Kanister  |   |   |   |

Lieferzeit  
 ⊙ ab Lager lieferbar - Zwischenverkauf vorbehalten  
 ⊙ on stock, subject to prior sale  
 ⊙ nicht lagerfähig - Lieferzeit auf Anfrage  
 ⊙ not on stock, delivery time upon request



# ZINNER GmbH

## Präzisions-Werkzeugfabrik

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