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## ZENTRIERSPITZEN UND SPINDELWERKZEUGE SPINDLE TOOLING AND QUICKCHANGE TOOLPOSTS



# ZENTRIERSPITZEN UND WERKZEUGAUFNAHMEN SPINDLE TOOLING AND QUICKCHANGE TOOLPOSTS

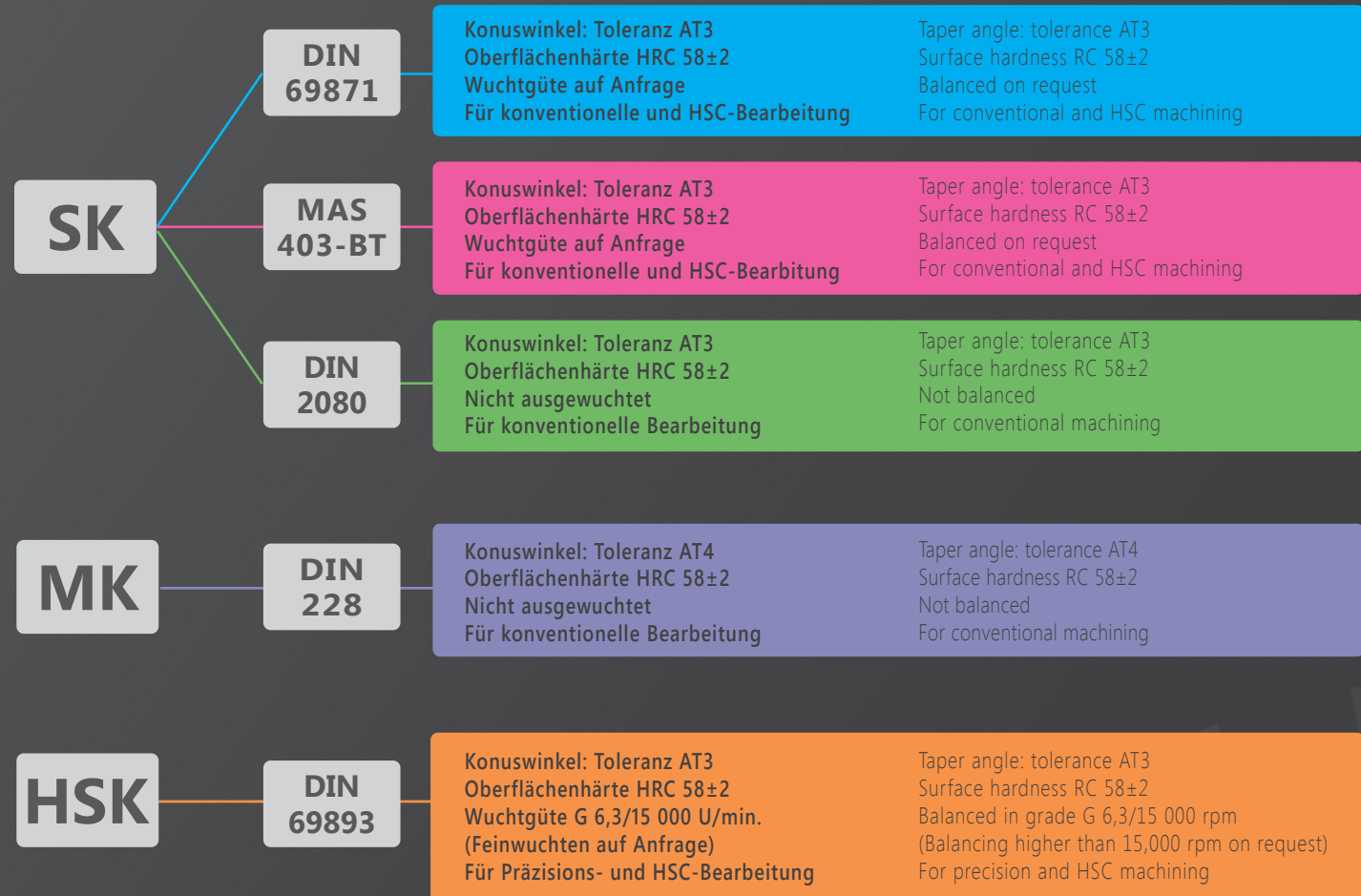


Um die Leistungsfähigkeit der neuesten Generation von Fräswerkzeugen optimal zu nutzen, sind hohe Schnittwerte erforderlich. Die Spindel einer Schleifmaschine kann bis zu 40.000 U/min. erreichen. Um einen präzisen Verarbeitungsprozess, die korrekte Arbeit des Werkzeuges und den Schutz des Lagers Ihrer Maschine zu gewährleisten, ist es unerlässlich, ausgewuchtete Werkzeugaufnahmen zu nutzen.

Machining with the newest generation of cutting tools requires using very high parameters; the grinding machine spindle rotational speeds can reach in excess of 40.000 rpm. When you are doing precision work at this level, it is imperative that you protect the bearings and use balanced holders.

## Schaftausführungen für Fräsmaschinen und Bearbeitungszentren

Type of tool shanks for milling machines and machining centres



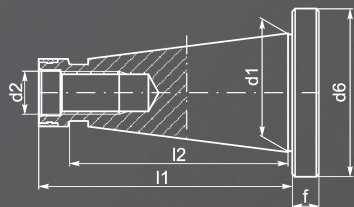


# ZENTRIERSPITZEN UND WERKZEUGAUFNAHMEN

## SPINDLE TOOLING AND QUICKCHANGE TOOLPOSTS

### Schaftausführungen für konventionelle und NC Maschinen

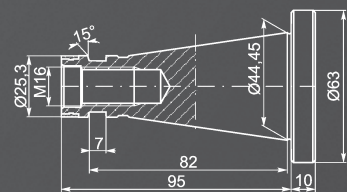
Tool shanks for conventional milling and NC machines



**SK 30 und SK 50**  
mit Innengewinde für Anzugsbolzen

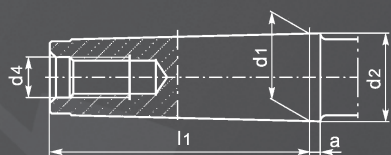
**SK 30 and SK 50**  
With internal thread for pull stud

|           | SK 30 | SK 50 |
|-----------|-------|-------|
| <b>l1</b> | 70    | 130   |
| <b>l2</b> | 51,4  | 115   |
| <b>d1</b> | 31,75 | 69,85 |
| <b>d2</b> | M12   | M24   |
| <b>d6</b> | 50    | 97,5  |
| <b>f</b>  | 8     | 12    |



**SK 40**  
mit Innengewinde für Anzugsbolzen  
für die manuelle und mit Ringnut  
für die automatische Bestückung

**SK 40**  
With an internal thread for pull stud,  
for manual mounting and with ring  
groove for automatic mounting



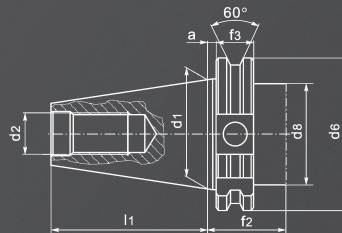
**MK 2 - MK 6**  
Kegelschaft mit Anzugsgewinde

**MK 2 - MK 6**  
Taper shank, with internal thread  
for pull stud

|           | MK 2   | MK 3   | MK 4   | MK 5   | MK 6   |
|-----------|--------|--------|--------|--------|--------|
| <b>l1</b> | 64     | 81     | 102,5  | 129,5  | 182    |
| <b>d1</b> | 17,780 | 23,825 | 31,267 | 44,399 | 63,348 |
| <b>d2</b> | 18     | 24,1   | 31,6   | 44,7   | 63,8   |
| <b>d4</b> | M10    | M12    | M16    | M20    | M24    |
| <b>a</b>  | 5      | 5      | 6,5    | 6,5    | 8      |

### Schaftausführungen für NC und CNC Maschinen

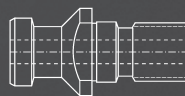
Tool shanks for NC machines and CNC machining centres



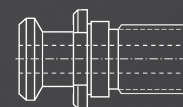
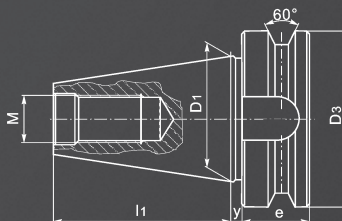
**Type A:** ohne Innenkühlung  
**Type AD:** mit Innenkühlung  
**Type B:** für seitliche Kühlung

**Type A:** without trough-hole  
**Type AD:** with trough-hole for  
central coolant supply  
**Type B:** for side coolant supply

|           | SK 30 | SK 40 | SK 50  |
|-----------|-------|-------|--------|
| <b>l1</b> | 47,80 | 68,40 | 101,75 |
| <b>d1</b> | 31,75 | 44,45 | 69,85  |
| <b>d2</b> | M12   | M16   | M24    |
| <b>d6</b> | 50    | 63,55 | 97,50  |
| <b>d8</b> | 45    | 50    | 80     |
| <b>f2</b> | 35    | 35    | 35     |
| <b>f3</b> | 19,1  | 19,1  | 19,1   |
| <b>a</b>  | 3,2   | 3,2   | 3,2    |

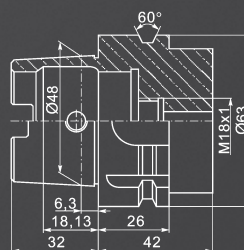


**Anzugsbolzen DIN 69872**  
Typ A oder B  
**Pull studs DIN 69872**  
Type A or B



**Anzugsbolzen MAS 403-BT**  
Typ A oder B  
**Pull studs MAS 403-BT**  
Type A or B

|           | SK 30 | SK 40 | SK 50 |
|-----------|-------|-------|-------|
| <b>l1</b> | 48,4  | 65,4  | 101,8 |
| <b>D1</b> | 31,75 | 44,45 | 69,85 |
| <b>D3</b> | 46    | 63    | 100   |
| <b>M</b>  | M12   | M16   | M24   |
| <b>e</b>  | 20    | 25    | 35    |
| <b>y</b>  | 2     | 2     | 3     |



**Typ A**  
Für CNC Bearbeitungszentren, Fräsmaschinen  
und Spezialmaschinen mit automatischem  
Werkzeugwechsler

Zentrale oder axiale Kühlmittelzufuhr

**Type A**  
For CNC machining centres, milling machines,  
and special machines with an automatic tool  
exchange

Central and axial coolant channel



**Kühlmittelübergabe**  
Coolant tube

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V

**WERKZEUGAUFNAHMEN - DIN 2080**  
TOOLHOLDERS - DIN 2080

**310-319**

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# KÖRNERSPITZEN REVOLVING CENTRES



## NEU IM PROGRAMM: KÖRNERSPITZEN TYP "R"

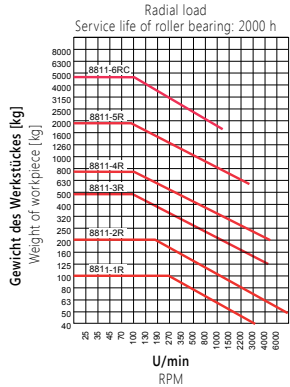
- Körper gehärtet und geschliffen
- Hohe Rundlaufgenauigkeit und Konzentrität
- Drehzahlen bis 7.000 U/min
- Max. Werkstückgewicht bis 5.000 kg
- Mit einer Lebensdauer der Kugellager von bis zu 2.000 Betriebsstunden

## NEW REVOLVING CENTRES - 'R' TYPE

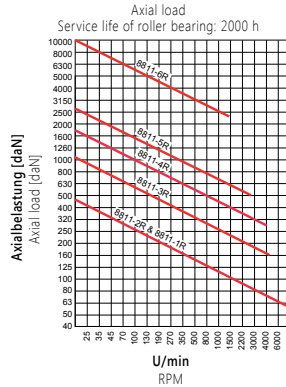
- Body hardened and ground
- High runout accuracy and concentricity
- Rotation speeds up to 7000 rpm
- Max. workpiece weight up to 5000 kgs
- Service life of bearings up to 2000 operating hours



**Radialbelastung**  
Lebensdauer des Wälzlagers: 2000 Std.

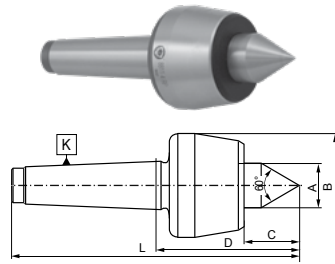


**Axialbelastung**  
Lebensdauer des Wälzlagers: 2000 Std.



**8811 R**

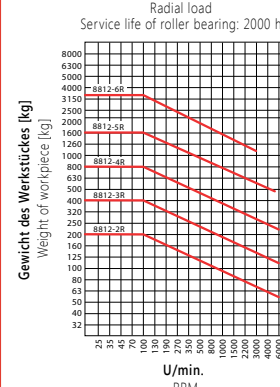
- Mitlaufende Körnerspitze
- Revolving tailstock centres with 60° angle tip



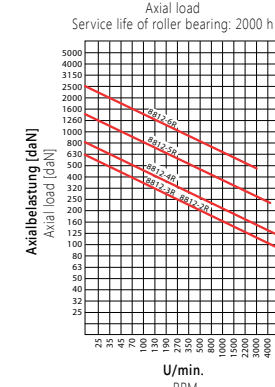
| K MK  | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B     | C    | D     | L     |
|-------|--------------|--------|-----------------------|-------------|----------------------|-------------|------|-------|------|-------|-------|
| K MT  | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |       |      |       |       |
|       |              |        | Präzision • Precision |             | Standard • Standard  |             |      |       |      |       |       |
| 1     | 100          | 7000   | -                     | -           | 0,005                | 800006761   | 15   | 36,0  | 17,0 | 60,5  | 114   |
| 2     | 200          | 7000   | 0,003                 | 800006762   | 0,005                | 800006763   | 20   | 45,0  | 23,5 | 64,5  | 128,5 |
| 3RL*  | 400          | 6300   | 0,003                 | 800006766   | 0,005                | 800006623   | 22   | 50,0  | 27,5 | 70,0  | 151   |
| 3     | 500          | 5000   | 0,003                 | 800006764   | 0,005                | 800006765   | 25   | 60,0  | 30,5 | 79,0  | 160   |
| 4     | 800          | 3800   | 0,003                 | 800006767   | 0,005                | 800006624   | 32   | 70,0  | 40,0 | 101,5 | 204   |
| 5     | 2000         | 3000   | 0,003                 | 800006768   | 0,005                | 800006625   | 40   | 90,0  | 49,5 | 128   | 257,5 |
| 6     | 3500         | 2600   | -                     | -           | 0,010                | 800006769   | 50   | 105,0 | 57,5 | 152   | 334   |
| 6RC** | 5000         | 1500   | -                     | -           | 0,010                | 800006770   | 62,4 | 140,0 | 67,0 | 194   | 376   |

\* Verjüngter Körper \*\* Slim body design \*\* Schwerlast \*\* Heavy duty

**Radialbelastung**  
Lebensdauer des Wälzlagers: 2000 Std.

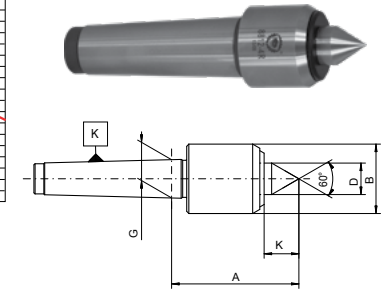


**Axialbelastung**  
Lebensdauer des Wälzlagers: 2000 Std.



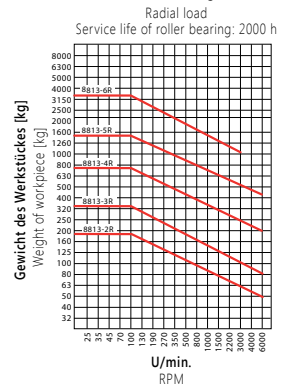
**8812 R**

- Mitlaufende Körnerspitze mit verjüngtem Körper
- Revolving tailstock centres with smaller body diameter

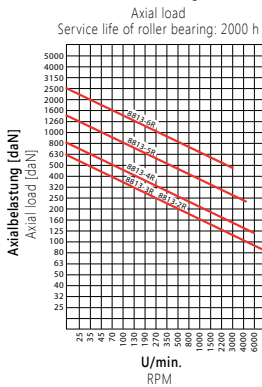


| K MK | Gewicht max. | U/min. | Rundlaufabweichung   | Artikel Nr. | A    | B  | D  | G      | K  |
|------|--------------|--------|----------------------|-------------|------|----|----|--------|----|
| K MT | Max. weight  | RPM    | Max. concentr. error | Code No.    |      |    |    |        |    |
| 2    | 200          | 7000   | 0,005                | 800006024   | 62   | 32 | 15 | 17,780 | 18 |
| 3    | 400          | 7000   | 0,005                | 800006705   | 62   | 34 | 15 | 23,825 | 18 |
| 4    | 800          | 6300   | 0,005                | 800006706   | 75,5 | 42 | 20 | 31,267 | 25 |
| 5    | 1600         | 4300   | 0,01                 | 800006707   | 104  | 58 | 30 | 44,399 | 34 |
| 6    | 3500         | 3000   | 0,02                 | 800006708   | 143  | 80 | 42 | 63,348 | 49 |

**Radialbelastung**  
Lebensdauer des Wälzlagers: 2000 Std.

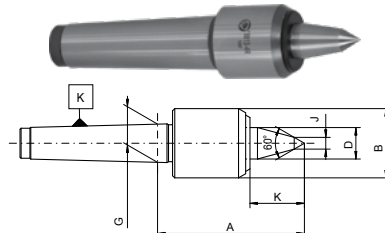


**Axialbelastung**  
Lebensdauer des Wälzlagers: 2000 Std.



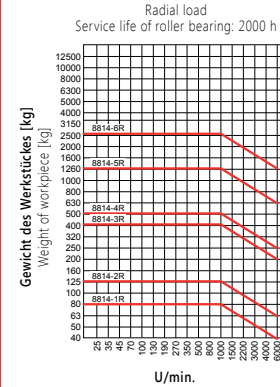
**8813 R**

- Mitlaufende Körnerspitze mit verjüngtem Körper und verlängerter Spitze
- Revolving tailstock centres with smaller body diameter and extended point

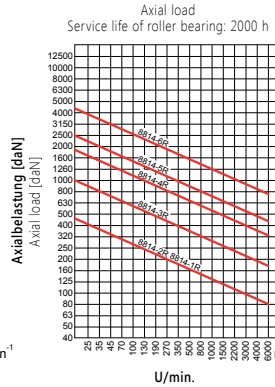


| K MK | Gewicht max. | U/min. | Rundlaufabweichung   | Artikel Nr. | A    | B  | D  | G      | K  | J  |
|------|--------------|--------|----------------------|-------------|------|----|----|--------|----|----|
| K MT | Max. weight  | RPM    | Max. concentr. error | Code No.    |      |    |    |        |    |    |
| 2    | 170          | 7000   | 0,008                | 800006709   | 73   | 32 | 15 | 17,780 | 29 | 10 |
| 3    | 340          | 7000   | 0,008                | 800006710   | 74   | 34 | 15 | 23,825 | 30 | 11 |
| 4    | 700          | 6300   | 0,008                | 800006245   | 88,5 | 42 | 20 | 31,267 | 38 | 13 |
| 5    | 1400         | 4300   | 0,01                 | 800006711   | 119  | 58 | 30 | 44,399 | 49 | 14 |
| 6    | 3000         | 3000   | 0,02                 | 800006712   | 164  | 80 | 42 | 63,348 | 70 | 18 |

**Radialbelastung**  
Lebensdauer des Wälzlagers: 2000 Std.

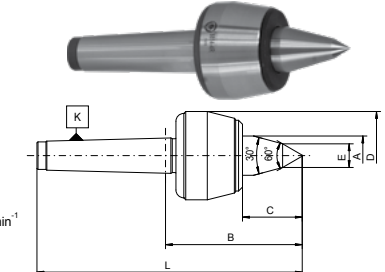


**Axialbelastung**  
Lebensdauer des Wälzlagers: 2000 Std.



**8814 R**

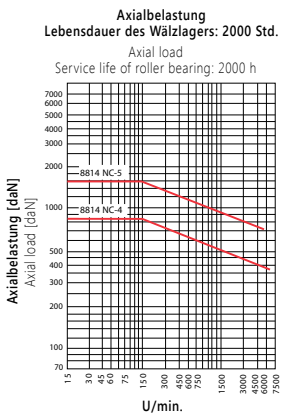
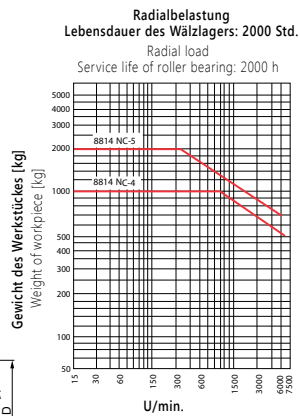
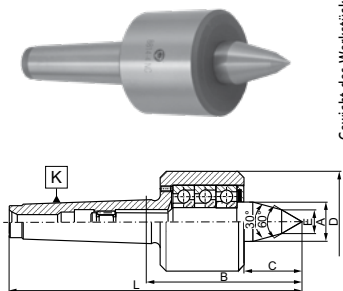
- Mitlaufende Körnerspitze mit verlängerter Spitze
- Revolving tailstock centres with extended point



| K MK | Gewicht max. | U/min. | Rundlaufabweichung   | Artikel Nr. | A  | B     | C    | D   | E  | L     |
|------|--------------|--------|----------------------|-------------|----|-------|------|-----|----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error | Code No.    |    |       |      |     |    |       |
| 1    | 80           | 7000   | 0,010                | 800006536   | 15 | 66,5  | 23,0 | 36  | 9  | 120,0 |
| 2    | 140          | 7000   | 0,005                | 800006537   | 20 | 74,5  | 33,5 | 45  | 10 | 138,5 |
| 3    | 400          | 5000   | 0,005                | 800006538   | 25 | 92,0  | 43,5 | 60  | 12 | 173,0 |
| 4    | 500          | 3800   | 0,005                | 800006539   | 32 | 113,5 | 52,0 | 70  | 14 | 216,0 |
| 5    | 1200         | 3000   | 0,005                | 800005509   | 40 | 144,3 | 65,3 | 90  | 16 | 272,8 |
| 6    | 2500         | 2600   | 0,010                | 800006540   | 50 | 170,5 | 77,5 | 105 | 18 | 352,5 |

## 8814 NC

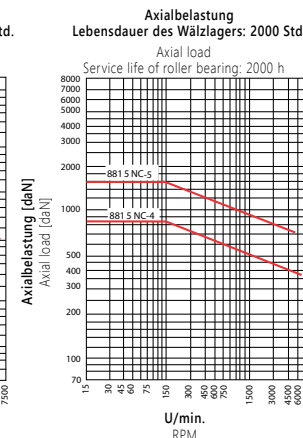
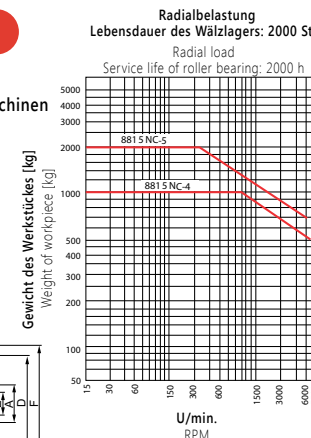
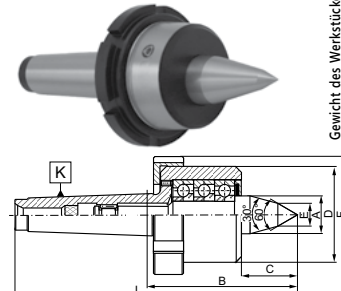
- Mitlaufende Körnerspitze für NC Drehmaschinen
- NC revolving centres with extended point for high speeds



| K MK | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B     | C    | D  | E  | L     |
|------|--------------|--------|-----------------------|-------------|----------------------|-------------|------|-------|------|----|----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |       |      |    |    |       |
|      |              |        | Präzision • Precision |             | Standard • Standard  |             |      |       |      |    |    |       |
| 4    | 1000         | 7000   | 0,005                 | 800002540   | 0,010                | 800002541   | 28,0 | 118,5 | 49   | 70 | 14 | 221,0 |
| 5    | 2000         | 6000   | 0,005                 | 800002542   | 0,010                | 800002543   | 40,0 | 150,5 | 67,5 | 95 | 16 | 280,0 |

## 8815 NC

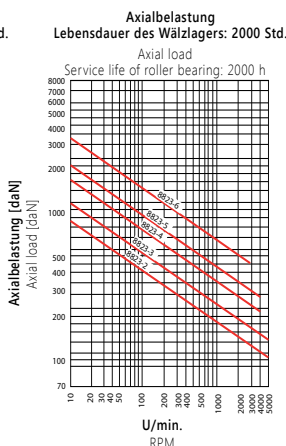
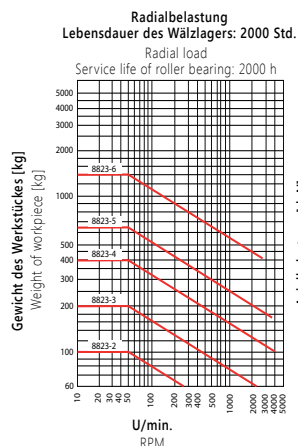
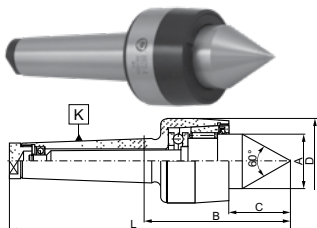
- Mitlaufende Körnerspitze mit Abdrückmutter für NC Drehmaschinen
- NC revolving centres with extended point and draw off nut for high speeds



| K MK | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A  | B     | C    | D  | E  | F   | L     |
|------|--------------|--------|-----------------------|-------------|----------------------|-------------|----|-------|------|----|----|-----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |    |       |      |    |    |     |       |
|      |              |        | Präzision • Precision |             | Standard • Standard  |             |    |       |      |    |    |     |       |
| 4    | 1000         | 7000   | 0,005                 | 800003342   | 0,010                | 800003722   | 28 | 118,5 | 49,0 | 70 | 14 | 82  | 221,0 |
| 5    | 2000         | 6000   | 0,005                 | 800003343   | 0,010                | 800003723   | 40 | 150,5 | 67,5 | 95 | 16 | 110 | 280,0 |

## 8823

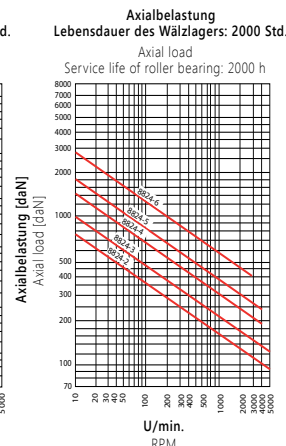
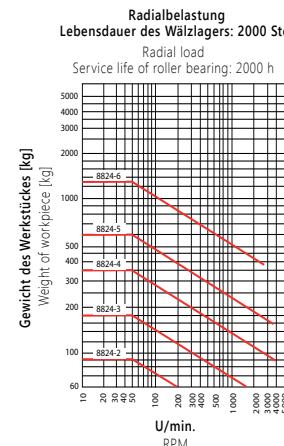
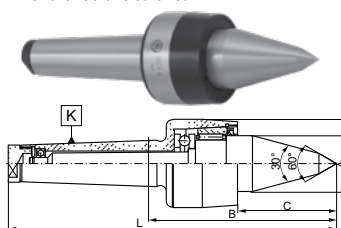
- Mitlaufende Körnerspitze
- Das spezielle Design ermöglicht die Einstellung des Radialspiels
- Revolving tailstock centres with radial compensation
- Special design allows adjustment of the radial clearance



| K MK | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B     | C    | D  | L     |
|------|--------------|--------|-----------------------|-------------|----------------------|-------------|------|-------|------|----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |       |      |    |       |
|      |              |        | Präzision • Precision |             | Standard • Standard  |             |      |       |      |    |       |
| 2    | 100          | 8000   | 0,005                 | 800006771   | 0,006                | 800006619   | 24   | 73,0  | 26,5 | 44 | 137,5 |
| 3    | 200          | 6000   | 0,003                 | 800006772   | 0,006                | 800006620   | 28   | 85,0  | 32,5 | 48 | 166,0 |
| 4    | 400          | 4500   | 0,003                 | 800006773   | 0,006                | 800006621   | 38   | 94,5  | 43,5 | 60 | 196,5 |
| 5    | 650          | 4000   | 0,003                 | 800006774   | 0,006                | 800006622   | 50   | 116,5 | 55,5 | 75 | 246,0 |
| 6    | 1400         | 3000   | 0,003                 | 800006775   | 0,008                | 800006776   | 60,5 | 135,0 | 62,5 | 90 | 317,0 |

## 8824

- Mitlaufende Körnerspitze
- Das spezielle Design ermöglicht die Einstellung des Radialspiels
- Revolving tailstock centres with radial compensation
- Special design allows adjustment of the radial clearance

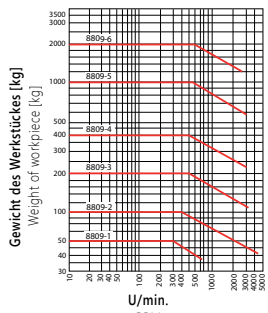


| K MK | Gewicht max. | U/min. | Rundlaufabweichung   | Artikel Nr. | A    | B     | C    | D  | L     |
|------|--------------|--------|----------------------|-------------|------|-------|------|----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error | Code No.    |      |       |      |    |       |
|      |              |        |                      |             |      |       |      |    |       |
| 2    | 90           | 8000   | 0,015                | 800002588   | 24   | 85,0  | 38,5 | 44 | 149,5 |
| 3    | 180          | 6000   | 0,015                | 800002589   | 28   | 100,0 | 47,5 | 48 | 181,0 |
| 4    | 350          | 4500   | 0,015                | 800002590   | 38   | 117,5 | 66,5 | 60 | 219,5 |
| 5    | 600          | 4000   | 0,015                | 800002591   | 50   | 147,5 | 86,5 | 75 | 277,0 |
| 6    | 1300         | 3000   | 0,015                | 800002592   | 60,5 | 167,0 | 94,5 | 90 | 349,0 |

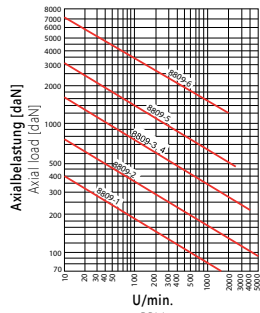




Radialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Radial load  
Service life of roller bearing: 2000 h

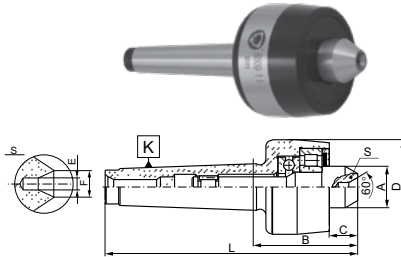


Axialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Axial load  
Service life of roller bearing: 2000 h



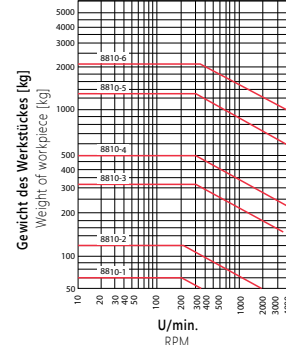
## 8809

- Mitlaufende Schwerlast-Körnerspitze mit Zentriereinsatz
- Heavy duty revolving centres with hollow tip

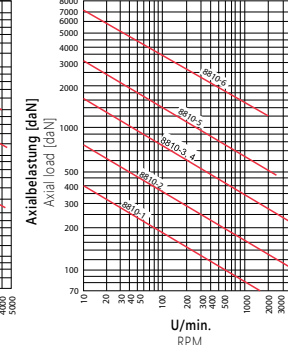


| K MK | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. |      |       |      |     |      |      |      |
|------|--------------|--------|-----------------------|-------------|----------------------|-------------|------|-------|------|-----|------|------|------|
| K MT | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    | A    | B     | C    | D   | L    | E    | F    |
|      |              |        | Präzision • Precision |             | Standard • Standard  |             |      |       |      |     |      |      |      |
| 1    | 50           | 5000   | 0,005                 | 800002890   | 0,008                | 800002891   | 15   | 44,0  | 11,5 | 38  | 97,5 | 2,5  | 4,2  |
| 2    | 100          | 5000   | 0,003                 | 800002892   | 0,008                | 800002893   | 18   | 51,0  | 16,0 | 40  | 115  | 2,5  | 5,3  |
| 3    | 200          | 4000   | 0,003                 | 800002894   | 0,008                | 800002895   | 25   | 66,0  | 18,5 | 56  | 147  | 4,0  | 8,5  |
| 4    | 400          | 3000   | 0,003                 | 800002896   | 0,008                | 800002897   | 32   | 71,0  | 19,5 | 64  | 173  | 6,3  | 13,2 |
| 5    | 1000         | 2500   | 0,005                 | 800002898   | 0,010                | 800002899   | 40   | 94,5  | 31,0 | 85  | 224  | 6,3  | 13,2 |
| 6    | 2000         | 2000   | 0,005                 | 800002900   | 0,010                | 800002901   | 62,4 | 131,0 | 44,0 | 130 | 313  | 10,0 | 21,2 |

Radialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Radial load  
Service life of roller bearing: 2000 h

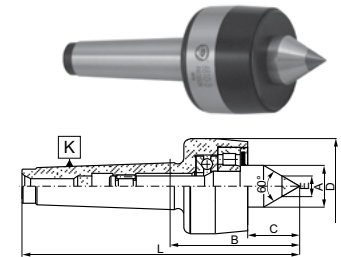


Axialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Axial load  
Service life of roller bearing: 2000 h



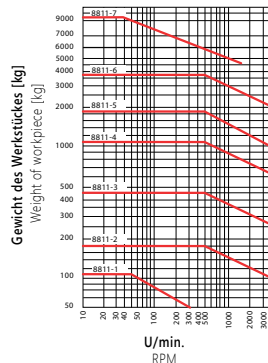
## 8810

- Mitlaufende Schwerlast-Körnerspitze mit Hartmetalleinsatz
- Heavy duty revolving tailstock centres with carbide tip

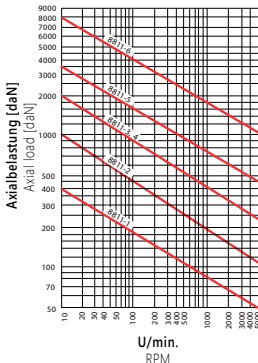


| K MK | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B     | C    | D   | E  | L     |
|------|--------------|--------|-----------------------|-------------|----------------------|-------------|------|-------|------|-----|----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |       |      |     |    |       |
|      |              |        | Präzision • precision |             | Standard • standard  |             |      |       |      |     |    |       |
| 1    | 60           | 5000   | 0,005                 | 800002477   | 0,008                | 800002478   | 15   | 49,5  | 17,0 | 38  | 7  | 103,0 |
| 2    | 120          | 5000   | 0,003                 | 800002479   | 0,008                | 800002480   | 18   | 56,5  | 21,5 | 40  | 7  | 120,5 |
| 3    | 320          | 4000   | 0,003                 | 800002481   | 0,008                | 800002482   | 25   | 75,0  | 27,5 | 56  | 11 | 156,0 |
| 4    | 500          | 3000   | 0,003                 | 800002483   | 0,008                | 800002484   | 32   | 85,0  | 33,5 | 64  | 14 | 187,0 |
| 5    | 1250         | 2500   | 0,005                 | 800002485   | 0,010                | 800002486   | 40   | 108,0 | 44,0 | 85  | 18 | 237,0 |
| 6    | 2200         | 2000   | 0,005                 | 800002487   | 0,010                | 800002488   | 62,4 | 151,5 | 64,0 | 130 | 18 | 333,5 |

Radialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Radial load  
Service life of roller bearing: 2000 h

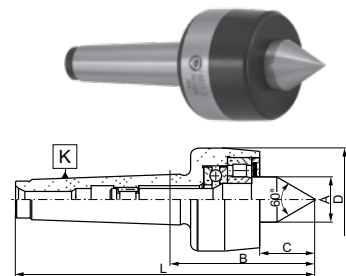


Axialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Axial load  
Service life of roller bearing: 2000 h



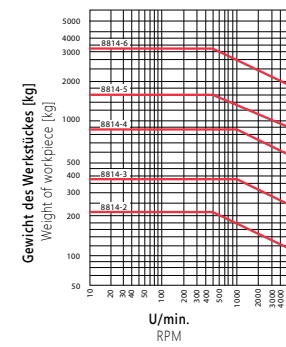
## 8811

- Mitlaufende Schwerlast-Körnerspitze
- Heavy duty tailstock centres

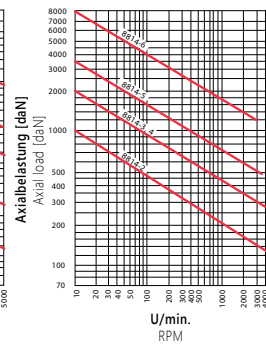


| K MK | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B     | C    | D   | L     |
|------|--------------|--------|-----------------------|-------------|----------------------|-------------|------|-------|------|-----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |       |      |     |       |
|      |              |        | Präzision • Precision |             | Standard • Standard  |             |      |       |      |     |       |
| 1    | 100          | 5000   | 0,005                 | 800006827   | 0,008                | 800006834   | 15   | 49,5  | 17,0 | 38  | 103,0 |
| 2    | 180          | 5000   | 0,003                 | 800006828   | 0,008                | 800006835   | 18   | 56,5  | 21,5 | 40  | 120,5 |
| 3    | 450          | 4000   | 0,003                 | 800006829   | 0,008                | 800006836   | 25   | 75,0  | 27,5 | 56  | 156,0 |
| 4    | 1000         | 3000   | 0,003                 | 800006830   | 0,008                | 800006837   | 32   | 85,0  | 33,5 | 64  | 187,0 |
| 5    | 1900         | 2500   | 0,005                 | 800006831   | 0,010                | 800006838   | 40   | 108,0 | 44,0 | 85  | 237,0 |
| 6    | 3700         | 2000   | 0,005                 | 800006832   | 0,010                | 800006839   | 62,4 | 151,5 | 64,0 | 130 | 333,5 |
| 7    | 9500         | 1000   | 0,012                 | 800006833   | 0,020                | 800006840   | 75   | 196,5 | 73,5 | 150 | 447,0 |

Radialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Radial load  
Service life of roller bearing: 2000 h

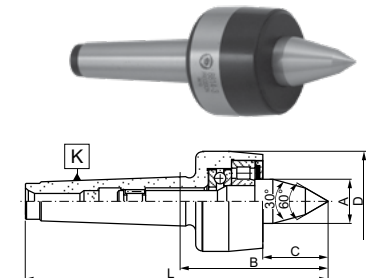


Axialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Axial load  
Service life of roller bearing: 2000 h



## 8814

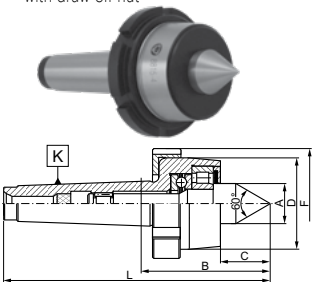
- Mitlaufende Schwerlast-Körnerspitze mit verlängerter Spitze
- Heavy duty revolving tailstock centres with extended point



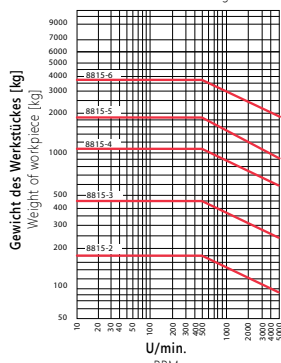
| K MK | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B     | C    | D   | L     |
|------|--------------|--------|-----------------------|-------------|----------------------|-------------|------|-------|------|-----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |       |      |     |       |
|      |              |        | Präzision • precision |             | Standard • standard  |             |      |       |      |     |       |
| 2    | 230          | 5000   | 0,008                 | 800006841   | 0,015                | 800006846   | 18,0 | 64,5  | 29,5 | 40  | 128,5 |
| 3    | 380          | 4000   | 0,008                 | 800006842   | 0,015                | 800006847   | 25,0 | 88,0  | 40,5 | 56  | 169,0 |
| 4    | 850          | 3000   | 0,008                 | 800006843   | 0,015                | 800006848   | 32,0 | 103,0 | 51,5 | 64  | 205,0 |
| 5    | 1600         | 2500   | 0,010                 | 800006844   | 0,020                | 800006849   | 40,0 | 130,0 | 66,0 | 85  | 259,0 |
| 6    | 3150         | 2000   | 0,010                 | 800006845   | 0,020                | 800006850   | 62,4 | 178,0 | 92,0 | 130 | 360,5 |

## 8815

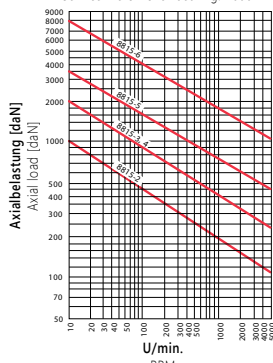
- Mitlaufende Schwerlast-Körnerspitze mit Abdrückmutter
- Heavy duty revolving centres with draw off nut



Radialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Radial load  
Service life of roller bearing: 2000 h



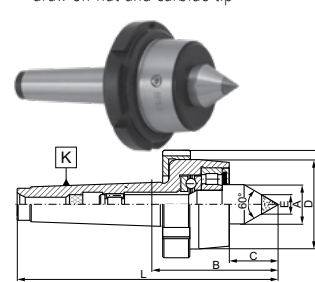
Axialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Axial load  
Service life of roller bearing: 2000 h



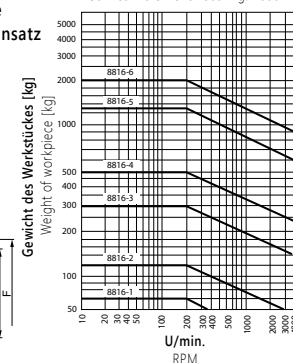
| K MK | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B     | C    | D   | F   | L     |
|------|--------------|--------|-----------------------|-------------|----------------------|-------------|------|-------|------|-----|-----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |       |      |     |     |       |
|      |              |        | Präzision • Precision |             | Standard • Standard  |             |      |       |      |     |     |       |
| 1    | 100          | 5000   | 0,005                 | 800006851   | 0,008                | 800006857   | 15   | 49,5  | 17,0 | 38  | 50  | 103,0 |
| 2    | 180          | 5000   | 0,003                 | 800006852   | 0,008                | 800006858   | 18   | 56,5  | 21,5 | 40  | 52  | 120,5 |
| 3    | 450          | 4000   | 0,003                 | 800006853   | 0,008                | 800006859   | 25   | 75,0  | 27,5 | 56  | 68  | 156,0 |
| 4    | 1000         | 3000   | 0,003                 | 800006854   | 0,008                | 800006860   | 32   | 85,0  | 33,5 | 64  | 76  | 187,0 |
| 5    | 1900         | 2500   | 0,005                 | 800006855   | 0,010                | 800006861   | 40   | 108,0 | 44,0 | 85  | 100 | 237,0 |
| 6    | 3700         | 2000   | 0,005                 | 800006856   | 0,010                | 800006862   | 62,4 | 151,5 | 64,0 | 130 | 150 | 333,5 |

## 8816

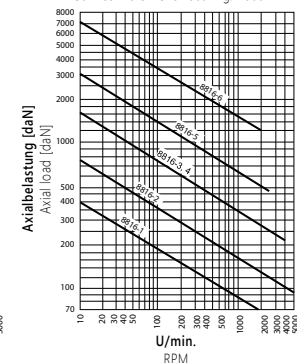
- Mitlaufende Schwerlast-Körnerspitze mit Abdrückmutter und Hartmetalleinsatz
- Heavy duty revolving centres with draw off nut and carbide tip



Radialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Radial load  
Service life of roller bearing: 2000 h



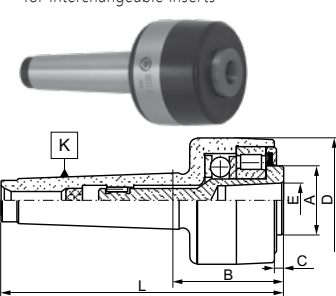
Axialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Axial load  
Service life of roller bearing: 2000 h



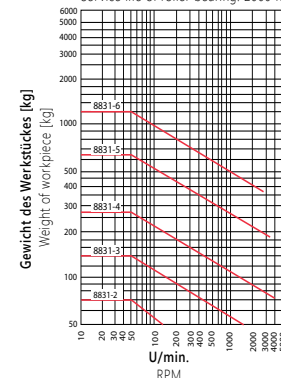
| K MK | Gewicht max. | U/min. | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B     | C    | D   | F   | E  | L     |
|------|--------------|--------|-----------------------|-------------|----------------------|-------------|------|-------|------|-----|-----|----|-------|
| K MT | Max. weight  | RPM    | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |       |      |     |     |    |       |
|      |              |        | Präzision • Precision |             | Standard • Standard  |             |      |       |      |     |     |    |       |
| 1    | 60           | 5000   | 0,005                 | 800002561   | 0,008                | 800002562   | 15   | 49,5  | 17,0 | 38  | 50  | 7  | 103,0 |
| 2    | 120          | 5000   | 0,003                 | 800002563   | 0,008                | 800002564   | 18   | 56,5  | 21,5 | 40  | 52  | 7  | 120,5 |
| 3    | 300          | 4000   | 0,003                 | 800002565   | 0,008                | 800002566   | 25   | 75,0  | 27,5 | 56  | 68  | 11 | 156,0 |
| 4    | 500          | 3000   | 0,003                 | 800002567   | 0,008                | 800002568   | 32   | 85,0  | 33,5 | 64  | 76  | 14 | 187,0 |
| 5    | 1250         | 2500   | 0,005                 | 800002569   | 0,010                | 800002570   | 40   | 108,0 | 44,0 | 85  | 100 | 18 | 237,0 |
| 6    | 2000         | 2000   | 0,005                 | 800002571   | 0,010                | 800002572   | 62,4 | 151,5 | 64,0 | 130 | 150 | 18 | 333,5 |

## 8831

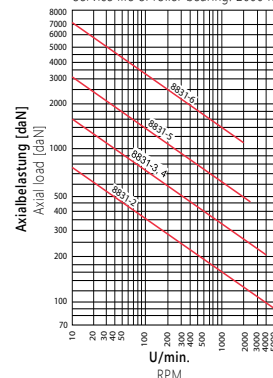
- Mitlaufende Körnerspitze für auswechselbare Einsätze
- Revolving tailstock centres for interchangeable inserts



Radialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Radial load  
Service life of roller bearing: 2000 h



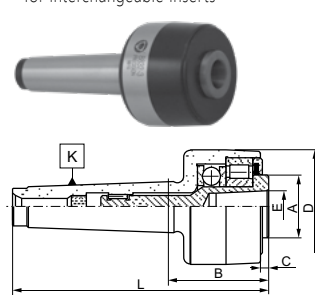
Axialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Axial load  
Service life of roller bearing: 2000 h



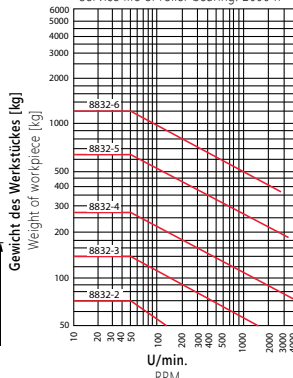
| K MK | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B  | C   | D   | L     | E  |
|------|-----------------------|-------------|----------------------|-------------|------|----|-----|-----|-------|----|
| K MT | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |    |     |     |       |    |
|      | Präzision • Precision |             | Standard • Standard  |             |      |    |     |     |       |    |
| 2    | 0,010                 | 800002620   | 0,020                | 800002621   | 18   | 39 | 4,0 | 40  | 103,0 | 7  |
| 3    | 0,010                 | 800002622   | 0,020                | 800002623   | 25   | 52 | 4,5 | 56  | 133,0 | 12 |
| 4    | 0,010                 | 800002624   | 0,020                | 800002625   | 32   | 57 | 5,5 | 64  | 159,0 | 15 |
| 5    | 0,015                 | 800002626   | 0,030                | 800002627   | 40   | 70 | 6,0 | 85  | 199,0 | 22 |
| 6    | 0,015                 | 800002628   | 0,030                | 800002629   | 62,4 | 94 | 6,5 | 130 | 276,0 | 28 |

## 8832

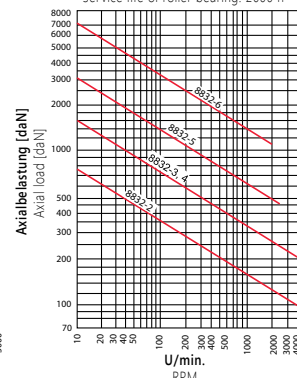
- Mitlaufende Körnerspitze für auswechselbare Einsätze
- Revolving tailstock centres for interchangeable inserts



Radialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Radial load  
Service life of roller bearing: 2000 h



Axialbelastung  
Lebensdauer des Wälzlagers: 2000 Std.  
Axial load  
Service life of roller bearing: 2000 h

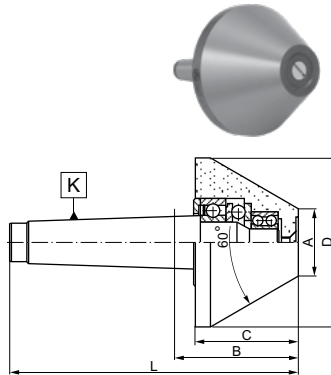


| K MK | Rundlaufabweichung    | Artikel Nr. | Rundlaufabweichung   | Artikel Nr. | A    | B  | C   | D   | L     | E  |
|------|-----------------------|-------------|----------------------|-------------|------|----|-----|-----|-------|----|
| K MT | Max. concentr. error  | Code No.    | Max. concentr. error | Code No.    |      |    |     |     |       |    |
|      | Präzision • Precision |             | Standard • Standard  |             |      |    |     |     |       |    |
| 2    | 0,010                 | 800002645   | 0,020                | 800002646   | 22   | 41 | 3,0 | 45  | 105,0 | 10 |
| 3    | 0,010                 | 800002647   | 0,020                | 800002648   | 25   | 52 | 4,5 | 56  | 133,0 | 15 |
| 4    | 0,010                 | 800002649   | 0,020                | 800002650   | 32   | 57 | 5,5 | 64  | 159,0 | 20 |
| 5    | 0,015                 | 800002651   | 0,030                | 800002652   | 40   | 70 | 6,0 | 85  | 199,0 | 25 |
| 6    | 0,015                 | 800002653   | 0,030                | 800002654   | 62,4 | 94 | 6,5 | 130 | 276,0 | 30 |



## 8825

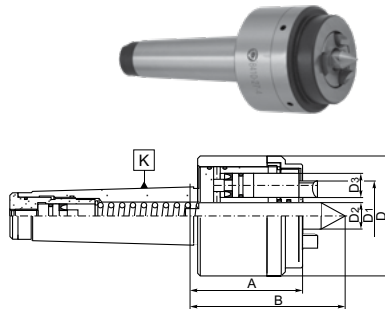
- Mitlaufender Zentrierkegel 60°
- Truncated 60° point centres for holding tubular workpieces



| Größe | K MK | Gewicht max. | U/min. | Rundlaufabweichung   | Artikel Nr. | A   | B     | C   | D   | L     |
|-------|------|--------------|--------|----------------------|-------------|-----|-------|-----|-----|-------|
| Size  | K MT | Max. weight  | RPM    | Max. concentr. error | Code No.    |     |       |     |     |       |
| 1     | 1    | 100          | 5000   | 0,008                | 800002598   | 20  | 40,5  | 35  | 50  | 94,0  |
| 2     | 2    | 180          | 5000   | 0,008                | 800002599   | 30  | 41,5  | 35  | 60  | 105,5 |
| 2-1   | 2    | 300          | 4500   | 0,008                | 800002600   | 30  | 59,0  | 53  | 80  | 123,0 |
| 3     | 3    | 350          | 4500   | 0,008                | 800002601   | 30  | 59,0  | 53  | 80  | 140,0 |
| 3-1   | 3    | 550          | 3000   | 0,008                | 800002602   | 40  | 67,0  | 61  | 100 | 148,0 |
| 3-2   | 3    | 600          | 3000   | 0,008                | 800002603   | 50  | 76,0  | 70  | 120 | 157,0 |
| 4     | 4    | 600          | 3000   | 0,008                | 800002604   | 40  | 68,5  | 61  | 100 | 171,0 |
| 4-1   | 4    | 700          | 3000   | 0,008                | 800002605   | 50  | 77,5  | 70  | 120 | 180,0 |
| 4-2   | 4    | 700          | 3000   | 0,010                | 800002606   | 70  | 77,5  | 70  | 140 | 180,0 |
| 5     | 5    | 750          | 3000   | 0,010                | 800002607   | 50  | 77,5  | 70  | 120 | 207,0 |
| 5-1   | 5    | 750          | 2000   | 0,020                | 800002608   | 100 | 77,5  | 70  | 170 | 207,0 |
| 6     | 6    | 2000         | 1000   | 0,050                | 800002609   | 180 | 116,0 | 107 | 292 | 298,0 |

## 8410

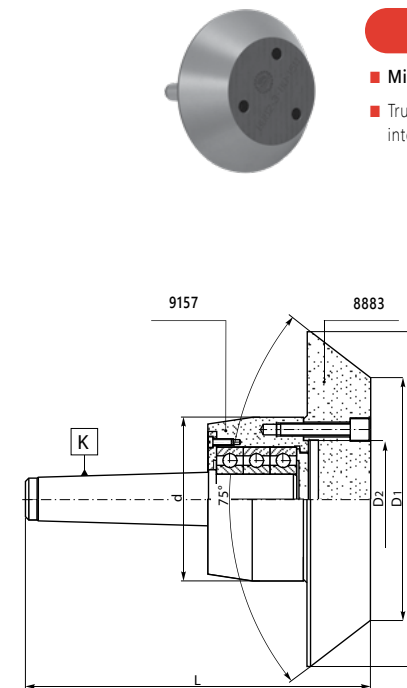
- Hydraulik Stirnseitenmitnehmer
- Hydraulic face drivers



| Artikel Nr. | D <sub>1</sub> | K MK | D   | D <sub>2</sub> | D <sub>3</sub> | A  | B   | Rundlaufabweichung   | Gewicht max. |
|-------------|----------------|------|-----|----------------|----------------|----|-----|----------------------|--------------|
| Code No.    |                | K MT |     |                |                |    |     | Max. concentr. error | Max. weight  |
| 800002740   | 27             | 4    | 68  | 12             | 12             | 64 | 80  | 0,02                 | 55           |
| 800002741   | 27             | 5    | 68  | 12             | 12             | 64 | 80  | 0,02                 | 55           |
| 800002742   | 40             | 4    | 81  | 14             | 12             | 67 | 84  | 0,02                 | 65           |
| 800002743   | 40             | 5    | 81  | 14             | 12             | 67 | 84  | 0,02                 | 65           |
| 800002744   | 50             | 5    | 90  | 20             | 18             | 86 | 113 | 0,03                 | 100          |
| 800002745   | 63             | 5    | 100 | 20             | 18             | 86 | 113 | 0,03                 | 100          |

## 8882

- Mitlaufender Zentrierkegel 75°
- Truncated 75° point centres with interchangeable plates



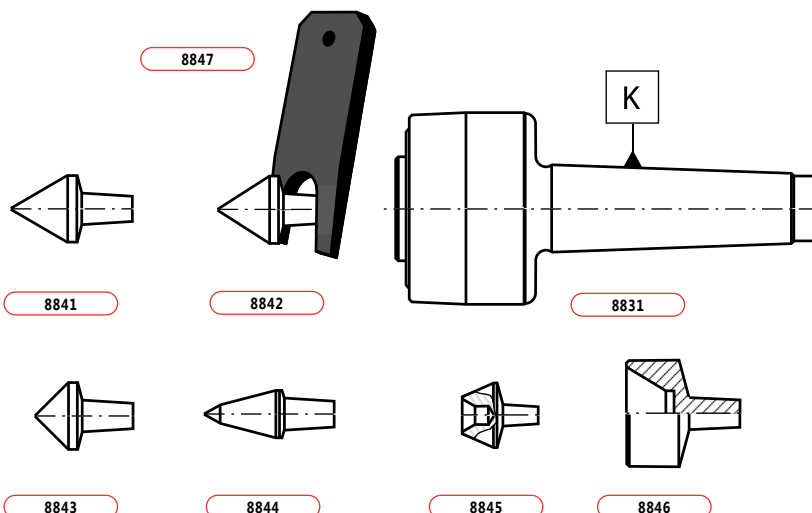
| K MK                   | d   | D   | D <sub>1</sub> | D <sub>2</sub> | L   | Gewicht max. | U/min. | Rundlaufabweichung   | Satz      | Zentrierkegel   | Grundkörper mitlaufend |
|------------------------|-----|-----|----------------|----------------|-----|--------------|--------|----------------------|-----------|-----------------|------------------------|
| K MT                   |     |     |                |                |     | Max. weight  | RPM    | Max. concentr. error | Set       | Centering taper | Rotating body          |
| Artikel Nr. • Code No. |     |     |                |                |     |              |        |                      |           |                 |                        |
| 3                      | 80  | 150 | 95             | 56             | 180 | 700          | 4000   | 0,05                 | 800002954 | 800002967       | 800002984              |
| 3                      | 80  | 200 | 145            | 56             | 180 | 700          | 4000   | 0,05                 | 800002955 | 800002968       | 800002984              |
| 4                      | 100 | 150 | 95             | 70             | 206 | 1000         | 3500   | 0,05                 | 800002956 | 800002969       | 800002985              |
| 4                      | 100 | 200 | 145            | 70             | 206 | 1000         | 3500   | 0,05                 | 800002957 | 800002970       | 800002985              |
| 4                      | 100 | 250 | 195            | 70             | 206 | 1000         | 3500   | 0,05                 | 800002958 | 800002971       | 800002985              |
| 4                      | 125 | 200 | 145            | 95             | 215 | 1500         | 3200   | 0,05                 | 800002959 | 800002972       | 800002986              |
| 4                      | 125 | 250 | 195            | 95             | 215 | 1500         | 3200   | 0,05                 | 800002960 | 800002973       | 800002986              |
| 4                      | 125 | 300 | 245            | 95             | 215 | 1500         | 3200   | 0,05                 | 800002961 | 800002974       | 800002986              |
| 5                      | 125 | 200 | 145            | 95             | 242 | 1500         | 3200   | 0,05                 | 800002962 | -               | 800002987              |
| 5                      | 125 | 250 | 195            | 95             | 242 | 1500         | 3200   | 0,05                 | 800002963 | -               | 800002987              |
| 5                      | 125 | 300 | 245            | 95             | 242 | 1500         | 3200   | 0,05                 | 800002964 | -               | 800002987              |
| 5                      | 160 | 250 | 195            | 125            | 245 | 1800         | 3000   | 0,05                 | 800002965 | 800002975       | 800002988              |
| 5                      | 160 | 300 | 245            | 125            | 245 | 1800         | 3000   | 0,05                 | 800002966 | 800002976       | 800002988              |





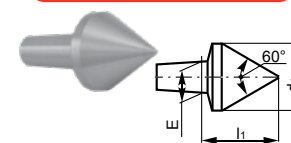
## 8831-KPL

- Mitlaufende Körnerspitze -  
Komplett-Satz mit auswechselbaren  
Einsätzen
- Revolving tailstock centres  
with interchangeable inserts  
- set



| K MK | Gewicht max. | U/min. | Rundlaufabweichung<br>Max. concentr. error | Artikel Nr.<br>Code No. | Rundlaufabweichung<br>Max. concentr. error | Artikel Nr.<br>Code No. |
|------|--------------|--------|--------------------------------------------|-------------------------|--------------------------------------------|-------------------------|
| K MT | Max. weight  | RPM    | Präzision • Precision                      |                         | Standard • Standard                        |                         |
| 2    | 70           | 5000   | 0,010                                      | 800002610               | 0,020                                      | 800002611               |
| 3    | 120          | 4000   | 0,010                                      | 800002612               | 0,020                                      | 800002613               |
| 4    | 280          | 3000   | 0,010                                      | 800002614               | 0,020                                      | 800002615               |
| 5    | 650          | 2500   | 0,015                                      | 800002616               | 0,030                                      | 800002617               |
| 6    | 1200         | 2000   | 0,015                                      | 800002618               | 0,030                                      | 800002619               |

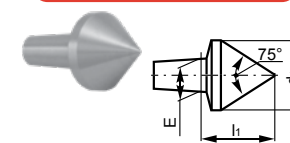
## 8841



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----|----------------|
| 800002660               | 2  | 18             | 7  | 21,0           |
| 800002661               | 3  | 25             | 12 | 28,0           |
| 800002662               | 4  | 28             | 15 | 30,5           |
| 800002663               | 5  | 40             | 22 | 42,5           |
| 800002664               | 6  | 60             | 28 | 61,5           |

\*Größe \*Size

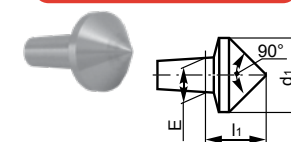
## 8842



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----|----------------|
| 800002665               | 2  | 18             | 7  | 17,5           |
| 800002666               | 3  | 25             | 12 | 23,0           |
| 800002667               | 4  | 28             | 15 | 25,0           |
| 800002668               | 5  | 40             | 22 | 34,0           |
| 800002669               | 6  | 60             | 28 | 50,5           |

\*Größe \*Size

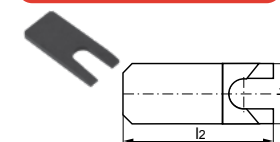
## 8843



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----|----------------|
| 800002670               | 2  | 18             | 7  | 15,0           |
| 800002671               | 3  | 25             | 12 | 19,0           |
| 800002672               | 4  | 28             | 15 | 21,0           |
| 800002673               | 5  | 40             | 22 | 28,0           |
| 800002674               | 6  | 60             | 28 | 40,0           |

\*Größe \*Size

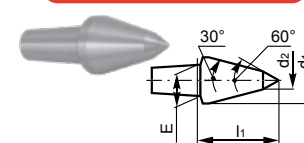
## 8847



| Artikel Nr.<br>Code No. | W* | l <sub>1</sub> | l <sub>2</sub> |
|-------------------------|----|----------------|----------------|
| 800002909               | 2  | 20             | 50             |
| 800002910               | 3  | 30             | 70             |
| 800002911               | 4  | 45             | 100            |
| 800002912               | 5  | 55             | 120            |
| 800002913               | 6  | 65             | 160            |

\*Größe \*Size

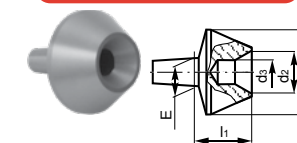
## 8844



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | d <sub>2</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----------------|----|----------------|
| 800002675               | 2  | 15             | 6              | 7  | 27,0           |
| 800002676               | 3  | 18             | 8              | 12 | 31,0           |
| 800002677               | 4  | 25             | 12             | 15 | 40,5           |
| 800002678               | 5  | 28             | 13             | 22 | 45,5           |
| 800002679               | 6  | 40             | 18             | 28 | 63,5           |

\*Größe \*Size

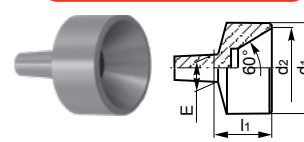
## 8845



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----------------|----------------|----|----------------|
| 800002680               | 2  | 28             | 12             | 6              | 7  | 18,5           |
| 800002681               | 3  | 40             | 19             | 10             | 12 | 24,0           |
| 800002682               | 4  | 55             | 22             | 10             | 15 | 36,5           |
| 800002683               | 5  | 70             | 32             | 10             | 22 | 42,0           |
| 800002684               | 6  | 100            | 50             | 15             | 28 | 56,0           |

\*Größe \*Size

## 8846

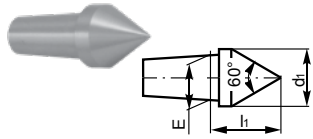


| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | d <sub>2</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----------------|----|----------------|
| 800002904               | 2  | 28             | 24             | 7  | 21,5           |
| 800002905               | 3  | 40             | 35             | 12 | 26,5           |
| 800002906               | 4  | 55             | 48             | 15 | 39,0           |
| 800002907               | 5  | 70             | 63             | 22 | 47,0           |
| 800002908               | 6  | 100            | 90             | 28 | 62,0           |

\*Größe \*Size



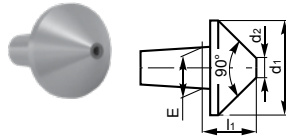
**8848**



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----|----------------|
| 800002914               | 2  | 15             | 10 | 19             |
| 800002915               | 3  | 20             | 15 | 25             |
| 800002916               | 4  | 25             | 20 | 30             |
| 800002917               | 5  | 32             | 25 | 35             |
| 800002918               | 6  | 36             | 30 | 44             |

\*Größe \*Size

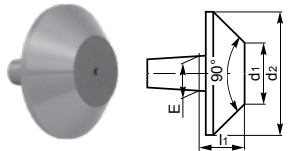
**8849**



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | d <sub>2</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----------------|----|----------------|
| 800002919               | 2  | 22             | 3              | 10 | 15             |
| 800002920               | 3  | 36             | 6              | 15 | 22             |
| 800002921               | 4  | 45             | 10             | 20 | 25             |
| 800002922               | 5  | 56             | 14             | 25 | 30             |
| 800002923               | 6  | 70             | 18             | 30 | 36             |

\*Größe \*Size

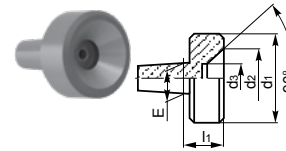
**8850**



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | d <sub>2</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----------------|----|----------------|
| 800002924               | 2  | 18             | 37             | 10 | 15             |
| 800002925               | 3  | 33             | 63             | 15 | 22             |
| 800002926               | 4  | 35             | 70             | 20 | 25             |
| 800002927               | 5  | 38             | 80             | 25 | 30             |
| 800002928               | 6  | 50             | 100            | 30 | 36             |

\*Größe \*Size

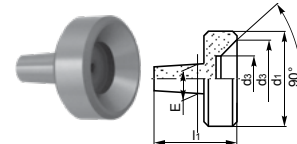
**8851**



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----------------|----------------|----|----------------|
| 800002929               | 2  | 22             | 18             | 8              | 10 | 15             |
| 800002930               | 3  | 36             | 28             | 12             | 15 | 22             |
| 800002931               | 4  | 45             | 37             | 17             | 20 | 25             |
| 800002932               | 5  | 56             | 44             | 20             | 25 | 30             |
| 800002933               | 6  | 70             | 58             | 24             | 30 | 36             |

\*Größe \*Size

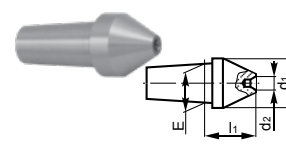
**8852**



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----------------|----------------|----|----------------|
| 800002934               | 2  | 30             | 25             | 15             | 10 | 15             |
| 800002935               | 3  | 45             | 38             | 22             | 15 | 22             |
| 800002936               | 4  | 63             | 53             | 30             | 20 | 25             |
| 800002937               | 5  | 70             | 60             | 36             | 25 | 30             |
| 800002938               | 6  | 100            | 88             | 54             | 30 | 36             |

\*Größe \*Size

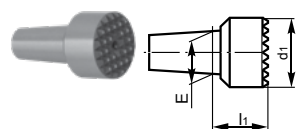
**8853**



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | d <sub>2</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----------------|----|----------------|
| 800002939               | 2  | 15             | 1,25           | 10 | 15             |
| 800002940               | 3  | 20             | 1,25           | 15 | 22             |
| 800002941               | 4  | 25             | 2,5            | 20 | 25             |
| 800002942               | 5  | 32             | 2,5            | 25 | 30             |
| 800002943               | 6  | 36             | 4,0            | 30 | 36             |

\*Größe \*Size

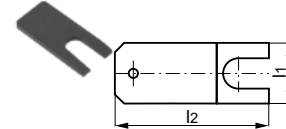
**8854**



| Artikel Nr.<br>Code No. | W* | d <sub>1</sub> | E  | l <sub>1</sub> |
|-------------------------|----|----------------|----|----------------|
| 800002944               | 2  | 18             | 10 | 15             |
| 800002945               | 3  | 25             | 15 | 22             |
| 800002946               | 4  | 32             | 20 | 25             |
| 800002947               | 5  | 45             | 25 | 30             |
| 800002948               | 6  | 56             | 30 | 36             |

\*Größe \*Size

**8855**



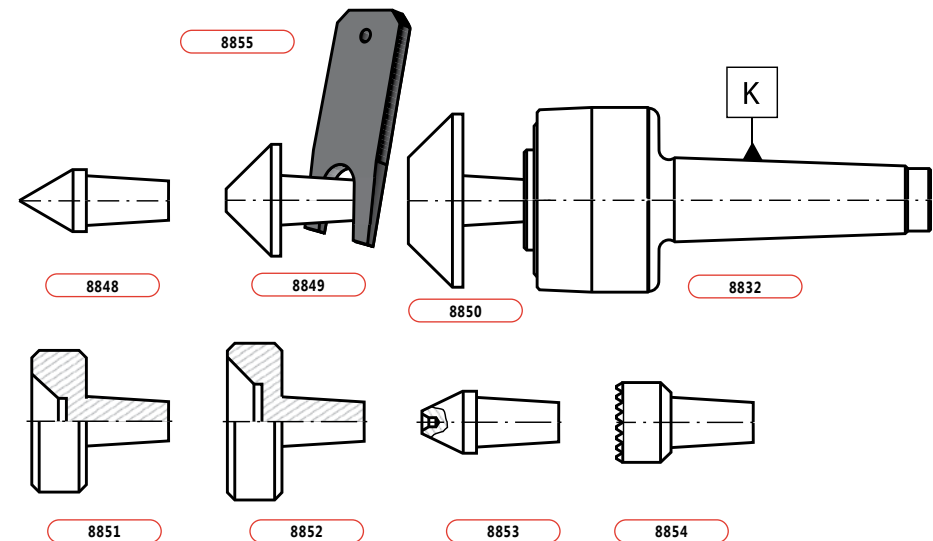
| Artikel Nr.<br>Code No. | W* | l <sub>1</sub> | l <sub>2</sub> |
|-------------------------|----|----------------|----------------|
| 800002949               | 2  | 20             | 60             |
| 800002950               | 3  | 30             | 80             |
| 800002951               | 4  | 40             | 100            |
| 800002952               | 5  | 50             | 120            |
| 800002953               | 6  | 60             | 160            |

\*Größe \*Size



**8832-KPL**

- Mitlaufende Körnerspitze -  
Komplett-Satz mit auswechselbaren  
Einsätzen
- Revolving tailstock centres  
with interchangeable inserts - set

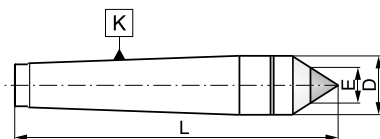


| K MK | Gewicht max. | U/min. | Rundlaufabweichung<br>Max. concent. error | Artikel Nr.<br>Code No. | Rundlaufabweichung<br>Max. concent. error | Artikel Nr.<br>Code No. |
|------|--------------|--------|-------------------------------------------|-------------------------|-------------------------------------------|-------------------------|
| K MT | Max. weight  | RPM    | Präzision • Precision                     | Standard • Standard     |                                           |                         |
| 2    | 70           | 5000   | 0,010                                     | 800002635               | 0,020                                     | 800002636               |
| 3    | 120          | 4000   | 0,010                                     | 800002637               | 0,020                                     | 800002638               |
| 4    | 280          | 3000   | 0,010                                     | 800002639               | 0,020                                     | 800002640               |
| 5    | 650          | 2500   | 0,015                                     | 800002641               | 0,030                                     | 800002642               |
| 6    | 1200         | 2000   | 0,015                                     | 800002643               | 0,030                                     | 800002644               |



## 8711

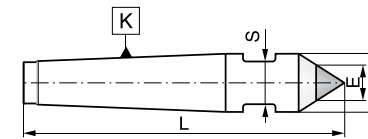
- 60° feststehende Zentrierspitze mit Hartmetalleinsatz
- 60° Solid centres - carbide tipped



| Artikel Nr. | K MK | L   | D    | E  |
|-------------|------|-----|------|----|
| Code No.    | K MT |     |      |    |
| 800002824   | 0    | 70  | 9,2  | 5  |
| 800002825   | 1    | 80  | 12,2 | 7  |
| 800002826   | 2    | 100 | 18,0 | 7  |
| 800002827   | 3    | 125 | 24,1 | 11 |
| 800002828   | 4    | 160 | 31,6 | 14 |
| 800002829   | 5    | 200 | 44,7 | 18 |
| 800002830   | 6    | 270 | 63,8 | 18 |

## 8721

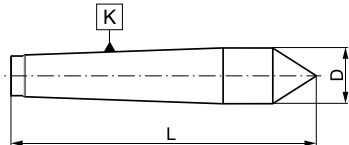
- 60° feststehende Zentrierspitze mit Spannfläche und Hartmetalleinsatz
- 60° Carbide tipped solid centres with spanner flats



| Artikel Nr. | K MK | L   | D    | E  | S  |
|-------------|------|-----|------|----|----|
| Code No.    | K MT |     |      |    |    |
| 800002846   | 0    | 78  | 9,2  | 5  | 7  |
| 800002847   | 1    | 90  | 12,2 | 7  | 10 |
| 800002848   | 2    | 112 | 18,0 | 7  | 13 |
| 800002849   | 3    | 138 | 24,1 | 11 | 19 |
| 800002850   | 4    | 175 | 31,6 | 14 | 24 |
| 800002851   | 5    | 217 | 44,7 | 18 | 36 |
| 800002852   | 6    | 290 | 63,8 | 18 | 55 |

## 8712

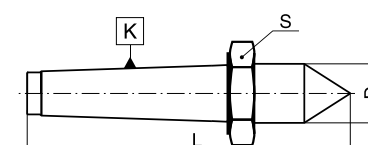
- 60° feststehende Zentrierspitze
- 60° Solid centres



| Artikel Nr. | K MK | L   | D    |
|-------------|------|-----|------|
| Code No.    | K MT |     |      |
| 800002831   | 0    | 70  | 9,2  |
| 800002832   | 1    | 80  | 12,2 |
| 800002833   | 2    | 100 | 18,0 |
| 800002834   | 3    | 125 | 24,1 |
| 800002835   | 4    | 160 | 31,6 |
| 800002836   | 5    | 200 | 44,7 |
| 800002837   | 6    | 270 | 63,8 |
| 800002838   | 7    | 360 | 83,5 |

## 8725

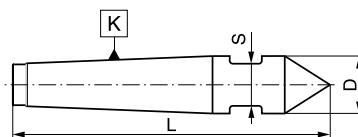
- 60° feststehende Zentrierspitze mit Abdrückmutter
- 60° Solid centres with draw off nut



| Artikel Nr. | K MK | L   | D    | S   |          |
|-------------|------|-----|------|-----|----------|
| Code No.    | K MT |     |      |     |          |
| 800002853   | 0    | 78  | 9,2  | 19  | S-0772/0 |
| 800002854   | 1    | 90  | 12,2 | 24  | S-0774/0 |
| 800002855   | 2    | 112 | 18,0 | 32  | S-0776/0 |
| 800002856   | 3    | 138 | 24,1 | 41  | S-0778/0 |
| 800002857   | 4    | 175 | 31,6 | 55  | S-0780/0 |
| 800002858   | 5    | 217 | 44,7 | 75  | S-0782/0 |
| 800002859   | 6    | 290 | 63,8 | 100 | S-0784/0 |

## 8720

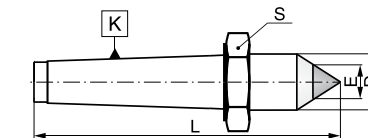
- 60° feststehende Zentrierspitze mit Spannflächen
- 60° Solid centres with spanner flats



| Artikel Nr. | K MK | L   | D    | S  |
|-------------|------|-----|------|----|
| Code No.    | K MT |     |      |    |
| 800002839   | 0    | 78  | 9,2  | 7  |
| 800002840   | 1    | 90  | 12,2 | 10 |
| 800002841   | 2    | 112 | 18,0 | 13 |
| 800002842   | 3    | 138 | 24,1 | 19 |
| 800002843   | 4    | 175 | 31,6 | 24 |
| 800002844   | 5    | 217 | 44,7 | 36 |
| 800002845   | 6    | 290 | 63,8 | 55 |

## 8726

- 60° feststehende Zentrierspitze mit Abdrückmutter und Hartmetalleinsatz
- 60° Carbide tipped solid centres with draw off nut



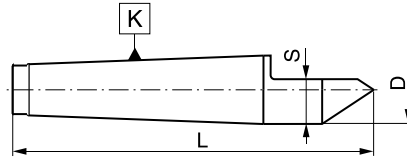
| Artikel Nr. | K MK | L   | D    | E  | S   |          |
|-------------|------|-----|------|----|-----|----------|
| Code No.    | K MT |     |      |    |     |          |
| 800002860   | 0    | 78  | 9,2  | 5  | 19  | S-0772/0 |
| 800002861   | 1    | 90  | 12,2 | 7  | 24  | S-0774/0 |
| 800002862   | 2    | 112 | 18,0 | 7  | 32  | S-0776/0 |
| 800002863   | 3    | 138 | 24,1 | 11 | 41  | S-0778/0 |
| 800002864   | 4    | 175 | 31,6 | 14 | 55  | S-0780/0 |
| 800002865   | 5    | 217 | 44,7 | 18 | 75  | S-0782/0 |
| 800002866   | 6    | 290 | 63,8 | 18 | 100 | S-0784/0 |





**8730**

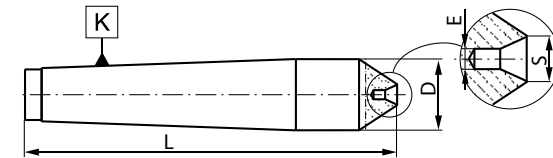
- 60° Zentrierspitze mit halber Spitze
- Solid centres 60° with half point



| Artikel Nr.<br>Code No. | K MK<br>K MT | L   | D    | S    |
|-------------------------|--------------|-----|------|------|
| 800002867               | 0            | 70  | 9,2  | 5,6  |
| 800002868               | 1            | 80  | 12,2 | 7,6  |
| 800002869               | 2            | 100 | 18,0 | 11,0 |
| 800002870               | 3            | 125 | 24,1 | 15,0 |
| 800002871               | 4            | 160 | 31,6 | 20,8 |
| 800002872               | 5            | 200 | 44,7 | 29,3 |
| 800002873               | 6            | 270 | 63,8 | 42,6 |

**8735**

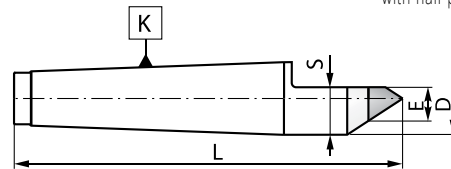
- 60° Zentrierspitze mit Zentriereinsatz
- Solid centres with hollow tip



| Artikel Nr.<br>Code No. | K MK<br>K MT | L   | D    | E   | S     |
|-------------------------|--------------|-----|------|-----|-------|
| 800002881               | 0            | 66  | 9,2  | 1,0 | 2,12  |
| 800002882               | 1            | 74  | 12,2 | 1,6 | 3,35  |
| 800002883               | 2            | 94  | 18,0 | 2,5 | 5,30  |
| 800002884               | 3            | 115 | 24,1 | 4,0 | 8,50  |
| 800002885               | 4            | 146 | 31,6 | 6,3 | 13,20 |

**8731**

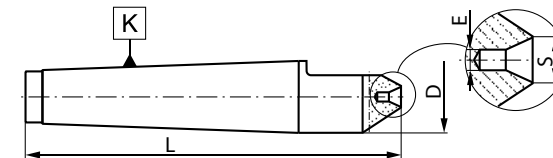
- 60° Zentrierspitze mit halber Spitze und Hartmetalleinsatz
- Solid centres 60° carbide tipped with half point



| Artikel Nr.<br>Code No. | K MK<br>K MT | L   | D    | E  | S    |
|-------------------------|--------------|-----|------|----|------|
| 800002874               | 0            | 70  | 9,2  | 5  | 7,8  |
| 800002875               | 1            | 80  | 12,2 | 7  | 10,3 |
| 800002876               | 2            | 100 | 18,0 | 7  | 13,0 |
| 800002877               | 3            | 125 | 24,1 | 11 | 18,3 |
| 800002878               | 4            | 160 | 31,6 | 14 | 23,5 |
| 800002879               | 5            | 200 | 44,7 | 18 | 32,0 |
| 800002880               | 6            | 270 | 63,8 | 18 | 41,7 |

**8740**

- 60° Zentrierspitze mit Zentriereinsatz und Phase
- Half point solid centres with hollow tip



| Artikel Nr.<br>Code No. | K MK<br>K MT | L   | D    | E   | S    |
|-------------------------|--------------|-----|------|-----|------|
| 800002886               | 0            | 66  | 9,2  | 1,0 | 2,20 |
| 800002887               | 1            | 74  | 12,2 | 1,6 | 3,35 |
| 800002888               | 2            | 94  | 18,0 | 2,5 | 5,30 |
| 800002889               | 3            | 115 | 24,1 | 4,0 | 8,50 |



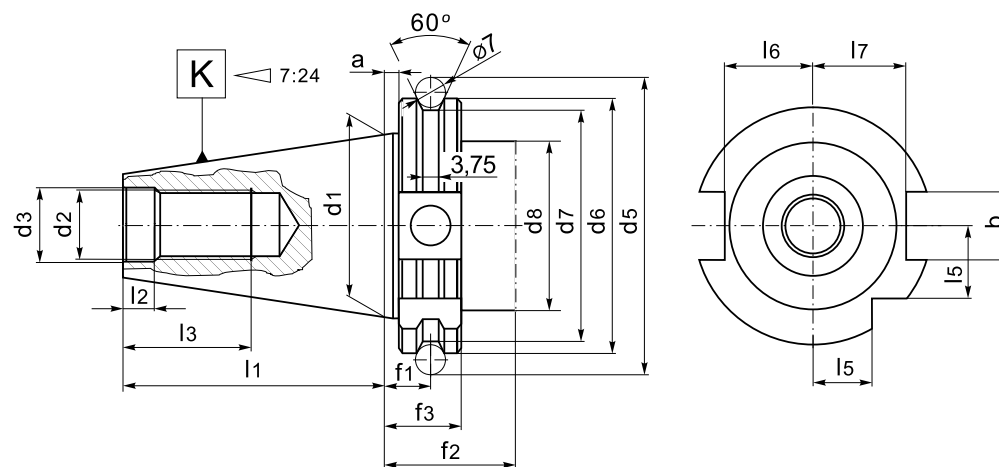
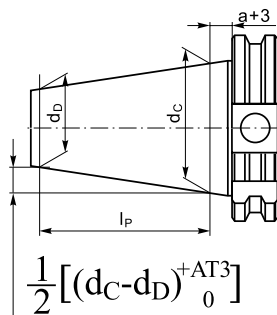
## DIN 69871

Standardmerkmale der Werkzeuge:

- Hergestellt aus Chrom Mangan Stahl
- Einsatzgehärtet auf eine Tiefe von 0,7mm
- Gehärtet und präzisionsgeschliffen
- Oberflächenhärte HRC 58±2
- Konuswinkel: Toleranz AT3

Standard features of the tools:

- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm
- Hardened and precision ground
- Surface hardness HRC 58±2
- Taper angle: tolerance AT3



| K 7:24 | d <sub>c</sub> -d <sub>b</sub> | l <sub>p</sub> | a   | AT3   |
|--------|--------------------------------|----------------|-----|-------|
| 30     | 12,250                         | 42             | 3,2 | 0,002 |
| 40     | 17,208                         | 59             | 3,2 | 0,003 |
| 50     | 26,833                         | 92             | 3,2 | 0,004 |

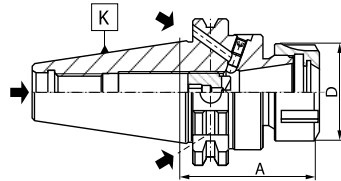
| K 7:24 | a   | bH12 | d <sub>1</sub> | d <sub>2</sub> | d3H7 | d <sub>5</sub> | d <sub>6</sub> | d <sub>7</sub> | d <sub>8</sub> max | f <sub>1</sub> | f <sub>2</sub> min | f <sub>3</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>5</sub> | l <sub>6</sub> | l <sub>7</sub> |
|--------|-----|------|----------------|----------------|------|----------------|----------------|----------------|--------------------|----------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 30     | 3,2 | 16,1 | 31,75          | M12            | 13   | 59,3           | 50             | 44,3           | 45                 | 11,1           | 35                 | 19,1           | 47,8           | 5,5            | 24             | 15             | 16,4           | 19             |
| 40     | 3,2 | 16,1 | 44,45          | M16            | 17   | 72,3           | 63,55          | 56,25          | 50                 | 11,1           | 35                 | 19,1           | 68,4           | 8,2            | 32             | 18,5           | 22,8           | 25             |
| 50     | 3,2 | 25,7 | 69,85          | M24            | 25   | 107,25         | 97,5           | 91,25          | 80                 | 11,1           | 35                 | 19,1           | 101,75         | 11,5           | 47             | 30             | 35,5           | 37,7           |





## 7617 AD+B

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)

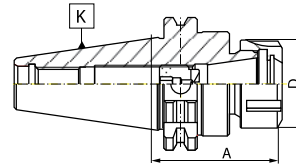


| Artikel Nr. | K    | Spannzangen | Spannbereich   | D    |    |                        |
|-------------|------|-------------|----------------|------|----|------------------------|
| Code No.    | 7:24 | Collet size | Clamping range |      |    |                        |
| 800001794   | 40   | ER16        | 60             | 2-10 | 32 | 9833-16ES M12x1,5x14LH |
| 800001795   | 40   | ER25        | 60             | 2-16 | 42 | 9833-25ES M18x1,5x19LH |
| 800006781   | 40   | ER25        | 160            | 2-16 | 42 | 9833-25ES M18x1,5x19LH |
| 800001796   | 40   | ER32        | 70             | 2-20 | 50 | 9833-32ES M22x1,5x24LH |
| 800001797   | 40   | ER32        | 160            | 2-20 | 50 | 9833-32ES M22x1,5x24LH |
| 800001798   | 40   | ER40        | 70             | 2-26 | 63 | 9833-40ES M28x1,5x30LH |
| 800001799   | 50   | ER32        | 70             | 2-20 | 50 | 9833-32ES M22x1,5x24LH |
| 800001800   | 50   | ER32        | 160            | 2-20 | 50 | 9833-32ES M22x1,5x24LH |
| 800001801   | 50   | ER40        | 80             | 2-26 | 63 | 9833-40ES M28x1,5x30LH |
| 800001802   | 50   | ER40        | 160            | 2-26 | 63 | 9833-40ES M28x1,5x30LH |



## 7617 AD

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)

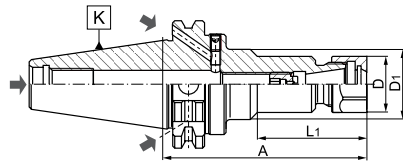


| Artikel Nr. | K    | Spannzangen | Spannbereich   | D    |    |                        |
|-------------|------|-------------|----------------|------|----|------------------------|
| Code No.    | 7:24 | Collet size | Clamping range |      |    |                        |
| 800001784   | 30   | ER16        | 60             | 2-10 | 32 | 9833-16ES M10x11LH     |
| 800004678   | 30   | ER25        | 60             | 2-10 | 32 | 9833-16ES M10x11LH     |
| 800001785   | 30   | ER32        | 60             | 2-20 | 50 | 9833-32ES M18x1,5x19LH |
| 800003335   | 40   | ER16        | 60             | 2-10 | 32 | 9833-16ES M12x1,5x14LH |
| 800001786   | 40   | ER25        | 60             | 2-16 | 42 | 9833-25ES M18x1,5x19LH |
| 800006760   | 40   | ER25        | 100            | 2-16 | 42 | 9833-25ES M18x1,5x19LH |
| 800006564   | 40   | ER25        | 130            | 2-16 | 42 | 9833-25ES M18x1,5x19LH |
| 800001787   | 40   | ER32        | 70             | 2-20 | 50 | 9833-32ES M22x1,5x24LH |
| 800006782   | 40   | ER32        | 100            | 2-20 | 50 | 9833-32ES M22x1,5x24LH |
| 800001788   | 40   | ER32        | 130            | 2-20 | 50 | 9833-32ES M22x1,5x24LH |
| 800001789   | 40   | ER40        | 70             | 2-26 | 63 | 9833-40ES M28x1,5x30LH |
| 800001790   | 50   | ER32        | 70             | 2-20 | 50 | 9833-32ES M22x1,5x24LH |
| 800001791   | 50   | ER32        | 130            | 2-20 | 50 | 9833-32ES M22x1,5x24LH |
| 800001792   | 50   | ER40        | 80             | 2-26 | 63 | 9833-40ES M28x1,5x30LH |
| 800001793   | 50   | ER40        | 130            | 2-26 | 63 | 9833-40ES M28x1,5x30LH |



## 7617-S AD+B

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499) - slim design

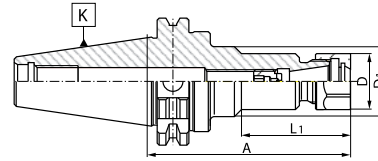


| Artikel Nr. | K    | Spannzangen | Spannbereich   | L1   | D    | D1 |          |              |
|-------------|------|-------------|----------------|------|------|----|----------|--------------|
| Code No.    | 7:24 | Collet size | Clamping range |      |      |    |          |              |
| 800001807   | 40   | ER16        | 100            | 2-10 | - 28 | -  | 9833-16D | M12x1,5x14LH |
| 800001808   | 40   | ER16        | 160            | 2-10 | 86   | 28 | 9833-16D | M12x1,5x14LH |
| 800001809   | 50   | ER16        | 100            | 2-10 | - 28 | -  | 9833-16D | M12x1,5x14LH |
| 800001810   | 50   | ER16        | 160            | 2-10 | 86   | 28 | 9833-16D | M12x1,5x14LH |



## 7617-S AD

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499) - slim design



| Artikel Nr. | K    | Spannzangen | Spannbereich   | L1   | D    | D1 |          |              |
|-------------|------|-------------|----------------|------|------|----|----------|--------------|
| Code No.    | 7:24 | Collet size | Clamping range |      |      |    |          |              |
| 800001803   | 40   | ER16        | 100            | 2-10 | - 28 | -  | 9833-16D | M12x1,5x14LH |
| 800001804   | 40   | ER16        | 150            | 2-10 | 85   | 28 | 9833-16D | M12x1,5x14LH |
| 800001805   | 50   | ER16        | 100            | 2-10 | - 28 | -  | 9833-16D | M12x1,5x14LH |
| 800001806   | 50   | ER16        | 150            | 2-10 | 85   | 28 | 9833-16D | M12x1,5x14LH |

## 7617-KPL

## 7617-PL

## 7617-S PL

- ER-Spannzangenfutter - Komplet-Set oder Satz zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks with ER collets (DIN 6499) - set or small set

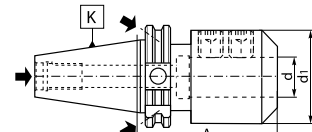
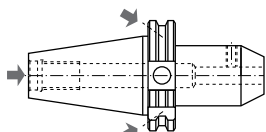


| Artikel Nr.                                        | K    | Spannzangen | A   | Spannbereich   | Teilung        |
|----------------------------------------------------|------|-------------|-----|----------------|----------------|
| Code No.                                           | 7:24 | Collet size |     | Clamping range | Collets in set |
| <b>7617-KPL</b>                                    |      |             |     |                |                |
| 800001811                                          | 30   | ER16        | 60  | 2-10           | 8              |
| 800001812                                          | 30   | ER32        | 60  | 2-20           | 18             |
| 800001813                                          | 40   | ER25        | 60  | 2-16           | 14             |
| 800001814                                          | 40   | ER32        | 70  | 2-20           | 18             |
| 800001815                                          | 40   | ER32        | 130 | 2-20           | 18             |
| 800001816                                          | 40   | ER40        | 70  | 2-26           | 24             |
| 800001817                                          | 50   | ER32        | 70  | 2-20           | 18             |
| 800001818                                          | 50   | ER32        | 130 | 2-20           | 18             |
| 800001819                                          | 50   | ER40        | 80  | 2-26           | 24             |
| 800001820                                          | 50   | ER40        | 130 | 2-26           | 24             |
| <b>7617-PL</b>                                     |      |             |     |                |                |
| 800001825                                          | 30   | ER32        | 60  | 3-20           | 8              |
| Spannzangen • Collets Ø 4, 5, 6, 8, 10, 12, 16, 20 |      |             |     |                |                |
| 800001826                                          | 40   | ER32        | 70  | 3-20           | 8              |
| Spannzangen • Collets Ø 4, 5, 6, 8, 10, 12, 16, 20 |      |             |     |                |                |
| 800001827                                          | 50   | ER32        | 70  | 3-20           | 8              |
| Spannzangen • Collets Ø 4, 5, 6, 8, 10, 12, 16, 20 |      |             |     |                |                |
| <b>7617-S PL</b>                                   |      |             |     |                |                |
| 800001821                                          | 40   | ER16        | 100 | 2-10           | 8              |
| 800001822                                          | 40   | ER16        | 150 | 2-10           | 8              |
| 800001823                                          | 50   | ER16        | 100 | 2-10           | 8              |
| 800001824                                          | 50   | ER16        | 150 | 2-10           | 8              |

KPL - Komplet-Set mit Freifläche für Werkzeughalter • set with empty space for toolholder  
PL - Satz mit Freifläche für Werkzeughalter • small set with empty space for toolholder  
S PL - Satz mit Freifläche für schmalen Werkzeughalter • small set with empty space for slim design toolholder

## 7625 AD+B

- Weldon Typ Aufnahme für Werkzeuge mit seitlicher Mitnahmefläche nach DIN 1835-B
- Weldon type end mill holders DIN 1835-B



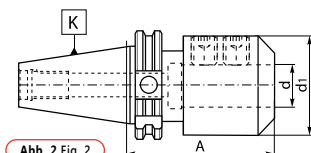
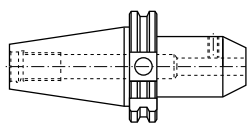
| Artikel Nr. | K 7:24 | d  | A   | d <sub>1</sub> | Abb. |          |
|-------------|--------|----|-----|----------------|------|----------|
| Code No.    |        |    |     |                | Fig. |          |
| 800002200   | 40     | 6  | 50  | 25,0           | 3    | U-4131/0 |
| 800002201   | 40     | 6  | 100 | 25,0           | 3    | U-4131/0 |
| 800002202   | 40     | 6  | 130 | 25,0           | 3    | U-4131/0 |
| 800002203   | 40     | 6  | 160 | 25,0           | 3    | U-4131/0 |
| 800002204   | 40     | 6  | 200 | 25,0           | 3    | U-4131/0 |
| 800002205   | 40     | 8  | 50  | 28,0           | 3    | U-4132/0 |
| 800002206   | 40     | 8  | 100 | 28,0           | 3    | U-4132/0 |
| 800002207   | 40     | 8  | 130 | 28,0           | 3    | U-4132/0 |
| 800002208   | 40     | 8  | 160 | 28,0           | 3    | U-4132/0 |
| 800002209   | 40     | 8  | 200 | 28,0           | 3    | U-4132/0 |
| 800002210   | 40     | 10 | 60  | 35,0           | 3    | U-4133/0 |
| 800002211   | 40     | 10 | 100 | 35,0           | 3    | U-4133/0 |
| 800002212   | 40     | 10 | 130 | 35,0           | 3    | U-4133/0 |
| 800002213   | 40     | 10 | 160 | 35,0           | 3    | U-4133/0 |
| 800002214   | 40     | 10 | 200 | 35,0           | 3    | U-4133/0 |
| 800002215   | 40     | 12 | 60  | 42,0           | 3    | U-4134/0 |
| 800002216   | 40     | 12 | 100 | 42,0           | 3    | U-4134/0 |
| 800002217   | 40     | 12 | 130 | 42,0           | 3    | U-4134/0 |
| 800002218   | 40     | 12 | 160 | 42,0           | 3    | U-4134/0 |

| Artikel Nr. | K 7:24 | d  | A   | d <sub>1</sub> | Abb. |              |
|-------------|--------|----|-----|----------------|------|--------------|
| Code No.    |        |    |     |                | Fig. |              |
| 800002219   | 40     | 12 | 200 | 42,0           | 3    | U-4134/0     |
| 800002220   | 40     | 14 | 60  | 44,0           | 3    | U-4134/0     |
| 800002221   | 40     | 14 | 100 | 44,0           | 3    | U-4134/0     |
| 800002222   | 40     | 14 | 130 | 44,0           | 3    | U-4134/0     |
| 800002223   | 40     | 14 | 160 | 44,0           | 3    | U-4134/0     |
| 800002224   | 40     | 14 | 200 | 44,0           | 3    | U-4134/0     |
| 800002225   | 40     | 16 | 63  | 44,5           | 3    | U-4135/0     |
| 800002226   | 40     | 16 | 100 | 48,0           | 3    | U-4135/0     |
| 800002227   | 40     | 16 | 130 | 48,0           | 3    | U-4135/0     |
| 800002228   | 40     | 16 | 160 | 48,0           | 3    | U-4135/0     |
| 800002229   | 40     | 16 | 200 | 48,0           | 3    | U-4135/0     |
| 800002230   | 40     | 18 | 63  | 49,5           | 3    | U-4135/0     |
| 800002231   | 40     | 18 | 100 | 49,5           | 3    | U-4135/0     |
| 800002232   | 40     | 18 | 130 | 49,5           | 3    | U-4135/0     |
| 800002233   | 40     | 18 | 160 | 49,5           | 3    | U-4135/0     |
| 800002234   | 40     | 18 | 200 | 49,5           | 3    | U-4135/0     |
| 800002235   | 40     | 20 | 63  | 49,5           | 3    | U-4136/0     |
| 800002236   | 40     | 20 | 100 | 49,5           | 3    | U-4136/0     |
| 800002237   | 40     | 20 | 130 | 49,5           | 3    | U-4136/0     |
| 800002238   | 40     | 20 | 160 | 49,5           | 3    | U-4136/0     |
| 800002239   | 40     | 20 | 200 | 49,5           | 3    | U-4136/0     |
| 800002240   | 40     | 25 | 100 | 63,0           | 4    | 2 x U-4137/0 |
| 800002241   | 40     | 25 | 130 | 65,0           | 4    | 2 x U-4137/0 |
| 800002242   | 40     | 25 | 160 | 65,0           | 4    | 2 x U-4137/0 |
| 800002243   | 40     | 25 | 200 | 65,0           | 4    | 2 x U-4137/0 |
| 800002244   | 40     | 32 | 100 | 72,0           | 4    | 2 x U-4138/0 |
| 800002245   | 40     | 32 | 130 | 72,0           | 4    | 2 x U-4138/0 |
| 800002246   | 40     | 32 | 160 | 72,0           | 4    | 2 x U-4138/0 |
| 800002247   | 40     | 32 | 200 | 72,0           | 4    | 2 x U-4138/0 |
| 800003928   | 40     | 40 | 120 | 90,0           | 4    | 2 x U-5870/0 |
| 800002248   | 50     | 6  | 63  | 25,0           | 3    | U-4131/0     |
| 800002249   | 50     | 6  | 100 | 25,0           | 3    | U-4131/0     |
| 800002250   | 50     | 6  | 130 | 25,0           | 3    | U-4131/0     |
| 800002251   | 50     | 6  | 160 | 25,0           | 3    | U-4131/0     |
| 800002252   | 50     | 6  | 200 | 25,0           | 3    | U-4131/0     |
| 800002253   | 50     | 8  | 63  | 28,0           | 3    | U-4132/0     |
| 800002254   | 50     | 8  | 100 | 28,0           | 3    | U-4132/0     |
| 800002255   | 50     | 8  | 130 | 28,0           | 3    | U-4132/0     |
| 800002256   | 50     | 8  | 160 | 28,0           | 3    | U-4132/0     |
| 800002257   | 50     | 8  | 200 | 28,0           | 3    | U-4132/0     |
| 800002258   | 50     | 10 | 63  | 35,3           | 3    | U-4133/0     |
| 800002259   | 50     | 10 | 100 | 35,0           | 3    | U-4133/0     |
| 800002260   | 50     | 10 | 130 | 35,0           | 3    | U-4133/0     |

| Artikel Nr. | K 7:24 | d  | A   | d <sub>1</sub> | Abb. |              |
|-------------|--------|----|-----|----------------|------|--------------|
| Code No.    |        |    |     |                | Fig. |              |
| 800002261   | 50     | 10 | 160 | 35,0           | 3    | U-4133/0     |
| 800002262   | 50     | 10 | 200 | 35,0           | 3    | U-4133/0     |
| 800002263   | 50     | 12 | 63  | 42,0           | 3    | U-4134/0     |
| 800002264   | 50     | 12 | 100 | 42,0           | 3    | U-4134/0     |
| 800002265   | 50     | 12 | 130 | 42,0           | 3    | U-4134/0     |
| 800002266   | 50     | 12 | 160 | 42,0           | 3    | U-4134/0     |
| 800002267   | 50     | 12 | 200 | 42,0           | 3    | U-4134/0     |
| 800002268   | 50     | 14 | 63  | 44,0           | 3    | U-4134/0     |
| 800002269   | 50     | 14 | 100 | 44,0           | 3    | U-4134/0     |
| 800002270   | 50     | 14 | 130 | 44,0           | 3    | U-4134/0     |
| 800002271   | 50     | 14 | 160 | 44,0           | 3    | U-4134/0     |
| 800002272   | 50     | 14 | 200 | 44,0           | 3    | U-4134/0     |
| 800002273   | 50     | 16 | 63  | 48,0           | 3    | U-4135/0     |
| 800002274   | 50     | 16 | 100 | 48,0           | 3    | U-4135/0     |
| 800002275   | 50     | 16 | 130 | 48,0           | 3    | U-4135/0     |
| 800002276   | 50     | 16 | 160 | 48,0           | 3    | U-4135/0     |
| 800002277   | 50     | 16 | 200 | 48,0           | 3    | U-4135/0     |
| 800002278   | 50     | 18 | 63  | 50,0           | 3    | U-4135/0     |
| 800002279   | 50     | 18 | 100 | 50,0           | 3    | U-4135/0     |
| 800002280   | 50     | 18 | 130 | 50,0           | 3    | U-4135/0     |
| 800002281   | 50     | 18 | 160 | 50,0           | 3    | U-4135/0     |
| 800002282   | 50     | 18 | 200 | 50,0           | 3    | U-4135/0     |
| 800002283   | 50     | 20 | 63  | 52,0           | 3    | U-4136/0     |
| 800002284   | 50     | 20 | 100 | 52,0           | 3    | U-4136/0     |
| 800002285   | 50     | 20 | 130 | 52,0           | 3    | U-4136/0     |
| 800002286   | 50     | 20 | 160 | 52,0           | 3    | U-4136/0     |
| 800002287   | 50     | 20 | 200 | 52,0           | 3    | U-4136/0     |
| 800002288   | 50     | 25 | 80  | 65,0           | 4    | 2 x U-4137/0 |
| 800002289   | 50     | 25 | 100 | 65,0           | 4    | 2 x U-4137/0 |
| 800002290   | 50     | 25 | 130 | 65,0           | 4    | 2 x U-4137/0 |
| 800002291   | 50     | 25 | 160 | 65,0           | 4    | 2 x U-4137/0 |
| 800002292   | 50     | 25 | 200 | 65,0           | 4    | 2 x U-4137/0 |
| 800002293   | 50     | 32 | 80  | 72,0           | 4    | 2 x U-4138/0 |
| 800002294   | 50     | 32 | 100 | 72,0           | 4    | 2 x U-4138/0 |
| 800002295   | 50     | 32 | 130 | 72,0           | 4    | 2 x U-4138/0 |
| 800002296   | 50     | 32 | 160 | 72,0           | 4    | 2 x U-4138/0 |
| 800002297   | 50     | 32 | 200 | 72,0           | 4    | 2 x U-4138/0 |
| 800002298   | 50     | 40 | 120 | 90,0           | 4    | 2 x U-5870/0 |
| 800002299   | 50     | 40 | 160 | 90,0           | 4    | 2 x U-5870/0 |
| 800003000   | 50     | 40 | 200 | 90,0           | 4    | 2 x U-5870/0 |
| 800002301   | 50     | 50 | 130 | 100,0          | 4    | 2 x U-4139/0 |
| 800002302   | 50     | 50 | 160 | 100,0          | 4    | 2 x U-4139/0 |
| 800002303   | 50     | 50 | 200 | 100,0          | 4    | 2 x U-4139/0 |

## 7625 AD

- Weldon Typ Aufnahme für Werkzeuge mit seitlicher Mitnahmefläche nach DIN 1835-B
- Weldon type end mill holders DIN 1835-B



| Artikel Nr. | K 7:24 | d  | A   | d <sub>1</sub> | Abb. |          |
|-------------|--------|----|-----|----------------|------|----------|
| Code No.    |        |    |     |                | Fig. |          |
| 800002140   | 30     | 6  | 50  | 25,0           | 1    | U-4131/0 |
| 800002141   | 30     | 8  | 50  | 28,0           | 1    | U-4132/0 |
| 800002142   | 30     | 10 | 50  | 35,0           | 1    | U-4133/0 |
| 800002143   | 30     | 12 | 50  | 42,0           | 1    | U-4134/0 |
| 800002144   | 30     | 16 | 63  | 44,0           | 1    | U-4135/0 |
| 800002145   | 30     | 20 | 63  | 44,0           | 1    | U-5888/0 |
| 800002146   | 40     | 6  | 30  | 25,0           | 1    | U-4131/0 |
| 800002147   | 40     | 6  | 50  | 25,0           | 1    | U-4131/0 |
| 800002148   | 40     | 6  | 100 | 25,0           | 1    | U-4131/0 |
| 800002149   | 40     | 6  | 130 | 25,0           | 1    | U-4131/0 |
| 800002150   | 40     | 8  | 30  | 28,0           | 1    | U-4132/0 |
| 800002151   | 40     | 8  | 50  | 28,0           | 1    | U-4132/0 |
| 800002152   | 40     | 8  | 100 | 28,0           | 1    | U-4132/0 |
| 800002153   | 40     | 8  | 130 | 28,0           | 1    | U-4132/0 |
| 800002154   | 40     | 10 | 32  | 35,0           | 1    | U-4133/0 |
| 800002155   | 40     | 10 | 50  | 35,0           | 1    | U-4133/0 |
| 800002156   | 40     | 10 | 100 | 35,0           | 1    | U-4133/0 |
| 800002157   | 40     | 10 | 130 | 35,0           | 1    | U-4133/0 |
| 800002158   | 40     | 12 | 34  | 42,0           | 1    | U-4134/0 |
| 800002159   | 40     | 12 | 50  | 42,0           | 1    | U-4134/0 |
| 800002160   | 40     | 12 | 100 | 42,0           | 1    | U-4134/0 |
| 800002161   | 40     | 12 | 130 | 42,0           | 1    | U-4134/0 |
| 800002162   | 40     | 14 | 34  | 44,0           | 1    | U-4134/0 |
| 800002163   | 40     | 14 | 50  | 44,0           | 1    | U-4134/0 |
| 800002164   | 40     | 14 | 63  | 44,0           | 1    | U-4134/0 |
| 800002165   | 40     | 16 | 35  | 44,0           | 1    | U-4135/0 |
| 800002166   | 40     | 16 | 63  | 44,5           | 1    | U-4135/0 |
| 800004848   | 40     | 16 | 100 | 48             | 1    | U-5887/0 |
| 800002167   | 40     | 18 | 63  | 44,5           | 1    | U-5887/0 |
| 800002168   | 40     | 20 | 35  | 44,5           | 1    | U-6756/0 |
| 800002169   | 40     | 20 | 63  | 44,5           | 1    | U-5888/0 |
| 800004849   | 40     | 20 | 100 | 52             | 1    | U-4136/0 |

| Artikel Nr. |  | K 7:24 | d  | A   | d <sub>1</sub> | Abb. |                   |
|-------------|--|--------|----|-----|----------------|------|-------------------|
| Code No.    |  |        |    |     |                | Fig. |                   |
| 800006826   |  | 40     | 25 | 35  | 44,5           | 2    | U-6756/0          |
| 800002170   |  | 40     | 25 | 60  | 44,5           | 2    | U-6756/0 U-6757/0 |
| 800002171   |  | 40     | 25 | 100 | 63,0           | 2    | 2 x U-4137/0      |
| 800002172   |  | 40     | 32 | 70  | 72,0           | 2    | U-6755/0 U-4138/0 |
| 800002173   |  | 40     | 32 | 100 | 72,0           | 2    | 2 x U-4138/0      |
| 800002174   |  | 50     | 6  | 63  | 25,0           | 1    | U-4131/0          |
| 800002175   |  | 50     | 6  | 130 | 25,0           | 1    | U-4131/0          |
| 800002176   |  | 50     | 8  | 63  | 28,0           | 1    | U-4132/0          |
| 800002177   |  | 50     | 8  | 130 | 28,0           | 1    | U-4132/0          |
| 800002178   |  | 50     | 10 | 63  | 35,0           | 1    | U-4133/0          |
| 800002179   |  | 50     | 10 | 130 | 35,0           | 1    | U-4133/0          |
| 800002180   |  | 50     | 12 | 63  | 42,0           | 1    | U-4134/0          |
| 800002181   |  | 50     | 12 | 130 | 42,0           | 1    | U-4134/0          |
| 800002182   |  | 50     | 14 | 63  | 44,0           | 1    | U-4134/0          |
| 800002183   |  | 50     | 16 | 63  | 48,0           | 1    | U-4135/0          |
| 800002184   |  | 50     | 16 | 100 | 48,0           | 1    | U-4135/0          |
| 800002185   |  | 50     | 16 | 130 | 48,0           | 1    | U-4135/0          |
| 800002186   |  | 50     | 18 | 63  | 50,0           | 1    | U-4135/0          |
| 800002187   |  | 50     | 20 | 35  | 52,0           | 1    | U-4136/0          |
| 800002188   |  | 50     | 20 | 63  | 52,0           | 1    | U-4136/0          |
| 800002189   |  | 50     | 20 | 130 | 52,0           | 1    | U-4136/0          |
| 800002190   |  | 50     | 25 | 60  | 69,9           | 2    | 2 x U-4137/0      |
| 800002191   |  | 50     | 25 | 80  | 65,0           | 2    | 2 x U-4137/0      |
| 800002192   |  | 50     | 25 | 130 | 65,0           | 2    | 2 x U-4137/0      |
| 800002193   |  | 50     | 32 | 70  | 69,9           | 2    | 2 x U-4138/0      |
| 800002194   |  | 50     | 32 | 100 | 72,0           | 2    | 2 x U-4138/0      |
| 800002195   |  | 50     | 32 | 130 | 72,0           | 2    | 2 x U-4138/0      |
| 800002196   |  | 50     | 32 | 160 | 72,0           | 2    | 2 x U-4138/0      |
| 800002197   |  | 50     | 40 | 100 | 80,0           | 2    | 2 x U-5870/0      |
| 800002198   |  | 50     | 40 | 120 | 90,0           | 2    | 2 x U-5870/0      |
| 800002199   |  | 50     | 50 | 130 | 100,0          | 2    | 2 x U-4139/0      |





## 7628 AD

- Whistle-Notch Aufnahme für Werkzeuge mit Zylinderschaft und geneigter Spannfläche nach DIN 1835-E
- Whistle-notch type end mill holders DIN 1835-E

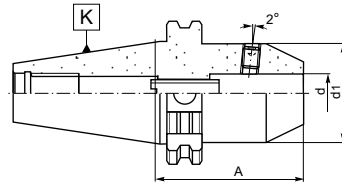


Abb. 1 Fig. 1

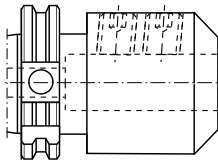


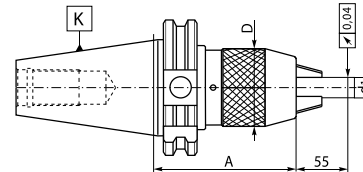
Abb. 2 Fig. 2

| Artikel Nr.<br>Code No. | K 7:24 | d  | d <sub>1</sub> | A   | Abb.<br>Fig. |              |          |
|-------------------------|--------|----|----------------|-----|--------------|--------------|----------|
| 800002359               | 40     | 6  | 25             | 50  | 1            | U-4131/0     | U-1599/0 |
| 800002360               | 40     | 8  | 28             | 50  | 1            | U-4132/0     | U-6317/0 |
| 800002361               | 40     | 10 | 35             | 50  | 1            | U-4133/0     | U-0293/0 |
| 800002362               | 40     | 12 | 42             | 50  | 1            | U-4134/0     | U-0757/0 |
| 800002363               | 40     | 14 | 44             | 63  | 1            | U-4135/0     | U-6318/0 |
| 800002364               | 40     | 16 | 44             | 63  | 1            | U-5887/0     | U-6318/0 |
| 800002365               | 40     | 18 | 44             | 63  | 1            | U-5888/0     | U-6793/0 |
| 800002366               | 40     | 20 | 44             | 63  | 1            | U-5888/0     | U-6793/0 |
| 800002367               | 40     | 25 | 65             | 100 | 2            | 2 x U-4137/0 | U-6794/0 |
| 800002368               | 40     | 32 | 72             | 100 | 2            | 2 x U-4138/0 | U-6794/0 |
| 800002348               | 50     | 6  | 25             | 63  | 1            | U-4131/0     | U-1599/0 |
| 800002349               | 50     | 8  | 28             | 63  | 1            | U-4132/0     | U-6317/0 |
| 800002350               | 50     | 10 | 35             | 63  | 1            | U-4133/0     | U-0293/0 |
| 800002351               | 50     | 12 | 42             | 63  | 1            | U-4134/0     | U-0757/0 |
| 800002352               | 50     | 14 | 44             | 63  | 1            | U-4135/0     | U-6318/0 |
| 800002353               | 50     | 16 | 48             | 63  | 1            | U-4135/0     | U-6318/0 |
| 800002354               | 50     | 18 | 50             | 63  | 1            | U-4136/0     | U-6793/0 |
| 800002355               | 50     | 20 | 52             | 63  | 1            | U-4136/0     | U-6793/0 |
| 800002356               | 50     | 25 | 70             | 80  | 2            | 2 x U-4137/0 | U-6794/0 |
| 800002357               | 50     | 32 | 72             | 100 | 2            | 2 x U-4138/0 | U-6794/0 |
| 800002358               | 50     | 40 | 90             | 120 | 2            | 2 x U-5870/0 | U-6794/0 |



## 7655 A

- Schnellspann-Bohrfutter
- Keyless drill chucks

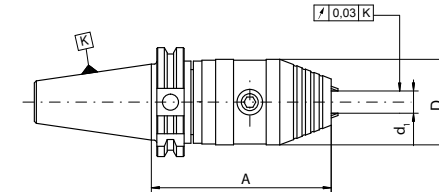


| Artikel Nr.<br>Code No. | K 7:24 | d <sub>1</sub> | A   | D  |
|-------------------------|--------|----------------|-----|----|
| 800002390               | 40     | 1-13           | 87  | 50 |
| 800002391               | 40     | 3-16           | 106 | 57 |
| 800002392               | 50     | 1-13           | 87  | 50 |
| 800002393               | 50     | 3-16           | 90  | 57 |



## 7660

- Bohrfutter für Rechts- und Linkslauf
- Drill chucks for clockwise and counter clockwise rotations



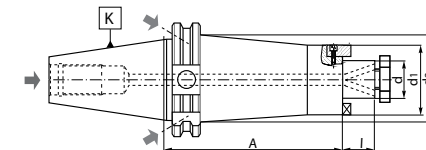
| Artikel Nr.<br>Code No. | K 7:24 | d <sub>1</sub> | Spannkraft<br>Clamping force | A   | D  |
|-------------------------|--------|----------------|------------------------------|-----|----|
| 800006585               | 40     | 1-13           | 40Nm                         | 105 | 50 |
| 800006586               | 40     | 3-16           | 45Nm                         | 105 | 50 |
| 800006587               | 50     | 1-13           | 40Nm                         | 105 | 50 |
| 800006588               | 50     | 3-16           | 45Nm                         | 105 | 50 |

| Artikel Nr.<br>Code No. | K 7:24 | d  | A   | l  | d <sub>1</sub> | d <sub>2</sub> |          |          |
|-------------------------|--------|----|-----|----|----------------|----------------|----------|----------|
| 800001530               | 40     | 16 | 45  | 17 | 38             | -              | U-0620/0 | W-1945/0 |
| 800001531               | 40     | 16 | 100 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001532               | 40     | 16 | 130 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001533               | 40     | 16 | 160 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001534               | 40     | 22 | 45  | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001535               | 40     | 22 | 100 | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001536               | 40     | 22 | 130 | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001537               | 40     | 22 | 160 | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001538               | 40     | 27 | 60  | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001539               | 40     | 27 | 100 | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001540               | 40     | 27 | 130 | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001541               | 40     | 27 | 160 | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001542               | 40     | 32 | 60  | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001543               | 40     | 32 | 100 | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001544               | 40     | 32 | 130 | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001545               | 40     | 32 | 160 | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001546               | 40     | 40 | 65  | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001547               | 40     | 40 | 100 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001548               | 40     | 40 | 130 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001549               | 40     | 40 | 160 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001550               | 50     | 16 | 50  | 17 | 38             | -              | U-0620/0 | W-1945/0 |
| 800001551               | 50     | 16 | 100 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001552               | 50     | 16 | 130 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001553               | 50     | 16 | 160 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001554               | 50     | 16 | 200 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001555               | 50     | 22 | 50  | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001556               | 50     | 22 | 100 | 19 | 48             | 62             | U-0621/0 | W-1946/0 |
| 800001557               | 50     | 22 | 130 | 19 | 48             | 62             | U-0621/0 | W-1946/0 |
| 800001558               | 50     | 22 | 160 | 19 | 48             | 62             | U-0621/0 | W-1946/0 |
| 800001559               | 50     | 22 | 200 | 19 | 48             | 62             | U-0621/0 | W-1946/0 |
| 800001560               | 50     | 27 | 55  | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001561               | 50     | 27 | 100 | 21 | 58             | 70             | U-0622/0 | W-1947/0 |



## 7369 AD+B

- Messerkopfaufnahme zur Aufnahme von Fräsern nach DIN 138
- Shell mill holders

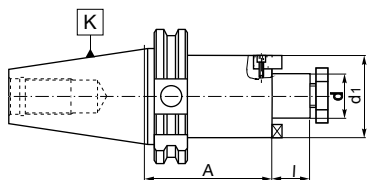


| Artikel Nr.<br>Code No. | K 7:24 | d  | A   | l  | d <sub>1</sub> | d <sub>2</sub> |          |          |
|-------------------------|--------|----|-----|----|----------------|----------------|----------|----------|
| 800001562               | 50     | 27 | 130 | 21 | 58             | 70             | U-0622/0 | W-1947/0 |
| 800001563               | 50     | 27 | 160 | 21 | 58             | 70             | U-0622/0 | W-1947/0 |
| 800001564               | 50     | 27 | 200 | 21 | 58             | 70             | U-0622/0 | W-1947/0 |
| 800001565               | 50     | 32 | 60  | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001566               | 50     | 32 | 100 | 24 | 66             | 80             | U-0623/0 | W-1948/0 |
| 800001567               | 50     | 32 | 130 | 24 | 66             | 80             | U-0623/0 | W-1948/0 |
| 800001568               | 50     | 32 | 160 | 24 | 66             | 80             | U-0623/0 | W-1948/0 |
| 800001569               | 50     | 32 | 200 | 24 | 66             | 80             | U-0623/0 | W-1948/0 |
| 800001570               | 50     | 40 | 65  | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001571               | 50     | 40 | 100 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001572               | 50     | 40 | 130 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001573               | 50     | 40 | 160 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001574               | 50     | 40 | 200 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001575               | 50     | 50 | 70  | 30 | 90             | -              | U-0625/0 | U-5974/0 |
| 800001576               | 50     | 50 | 100 | 30 | 90             | -              | U-0625/0 | U-5974/0 |
| 800001577               | 50     | 50 | 130 | 30 | 90             | -              | U-0625/0 | U-5974/0 |
| 800001578               | 50     | 50 | 160 | 30 | 90             | -              | U-0625/0 | U-5974/0 |
| 800001579               | 50     | 50 | 200 | 30 | 90             | -              | U-0625/0 | U-5974/0 |



## 7369 A

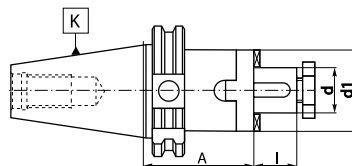
- Messerkopfaufnahme zur Aufnahme von Fräsern nach DIN 138
- Shell mill holders



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | l  |          |          |
|-------------------------|-----------|----|-----|----|----------|----------|
| 800001506               | 30        | 16 | 35  | 17 | U-0620/0 | S-2117/0 |
| 800001507               | 30        | 22 | 35  | 19 | U-0621/0 | S-2121/0 |
| 800001508               | 30        | 27 | 60  | 21 | U-0622/0 | S-2111/0 |
| 800001509               | 30        | 32 | 60  | 24 | U-0623/0 | S-2114/0 |
| 800001510               | 40        | 16 | 60  | 17 | U-0620/0 | S-2117/0 |
| 800001511               | 40        | 16 | 120 | 17 | U-0620/0 | S-2117/0 |
| 800001512               | 40        | 22 | 60  | 19 | U-0621/0 | S-2121/0 |
| 800001513               | 40        | 22 | 120 | 19 | U-0621/0 | S-2121/0 |
| 800001514               | 40        | 27 | 60  | 21 | U-0622/0 | S-2111/0 |
| 800001515               | 40        | 27 | 120 | 21 | U-0622/0 | S-2111/0 |
| 800001516               | 40        | 32 | 60  | 24 | U-0623/0 | S-2114/0 |
| 800001517               | 40        | 32 | 120 | 24 | U-0623/0 | S-2114/0 |
| 800001518               | 40        | 40 | 60  | 27 | U-0624/0 | S-2124/0 |
| 800001519               | 50        | 16 | 60  | 17 | U-0620/0 | S-2117/0 |
| 800001520               | 50        | 16 | 110 | 17 | U-0620/0 | S-2117/0 |
| 800001521               | 50        | 22 | 60  | 19 | U-0621/0 | S-2121/0 |
| 800001522               | 50        | 22 | 110 | 19 | U-0621/0 | S-2121/0 |
| 800001523               | 50        | 27 | 60  | 21 | U-0622/0 | S-2111/0 |
| 800001524               | 50        | 27 | 110 | 21 | U-0622/0 | S-2111/0 |
| 800001525               | 50        | 32 | 60  | 24 | U-0623/0 | S-2114/0 |
| 800001526               | 50        | 32 | 110 | 24 | U-0623/0 | S-2114/0 |
| 800001527               | 50        | 40 | 60  | 27 | U-0624/0 | S-2124/0 |
| 800001528               | 50        | 40 | 110 | 27 | U-0624/0 | S-2124/0 |
| 800001529               | 50        | 50 | 60  | 30 | U-0625/0 | U-5974/0 |

## 7301 A

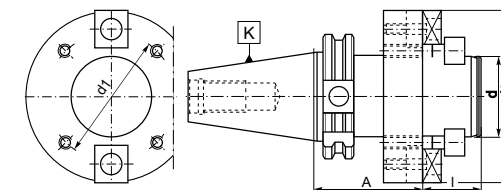
- Kombi-Aufsteckfräsdorn zur Aufnahme von Fräsern mit Längs- und Quernut nach DIN 138
- Combination shell mill holders



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A  | l  | d <sub>1</sub> |          |          |          |
|-------------------------|-----------|----|----|----|----------------|----------|----------|----------|
| 800001374               | 40        | 16 | 55 | 17 | 32             | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001375               | 40        | 22 | 55 | 19 | 40             | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001376               | 40        | 27 | 55 | 21 | 48             | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001377               | 40        | 32 | 60 | 24 | 58             | U-0623/0 | U-1367/0 | U-6355/0 |
| 800001378               | 40        | 40 | 60 | 27 | 70             | U-0624/0 | U-1368/0 | U-1359/0 |
| 800001379               | 50        | 16 | 55 | 17 | 32             | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001380               | 50        | 22 | 55 | 19 | 40             | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001381               | 50        | 27 | 55 | 21 | 48             | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001382               | 50        | 32 | 55 | 24 | 58             | U-0623/0 | U-1367/0 | U-6355/0 |
| 800001383               | 50        | 40 | 55 | 27 | 70             | U-0624/0 | U-1368/0 | U-1359/0 |
| 800001384               | 50        | 50 | 70 | 30 | 90             | U-0625/0 | U-1369/0 | U-1360/0 |

## 2827 A

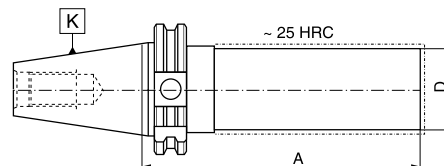
- Messerkopfaufnahme
- Face mill holders for milling cutters



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | d <sub>2</sub> | A  | l  |          |          |
|-------------------------|-----------|----|----------------|----------------|----|----|----------|----------|
| 800000600               | 40        | 40 | 66,7           | 89             | 60 | 30 | U-6064/0 | U-1414/0 |
| 800000601               | 40        | 60 | 101,6          | 129            | 60 | 40 | U-6066/0 | U-2042/0 |
| 800000602               | 50        | 40 | 66,7           | 89             | 70 | 30 | U-6064/0 | U-1414/0 |
| 800000603               | 50        | 60 | 101,6          | 129            | 70 | 40 | U-6066/0 | U-2042/0 |

## 2191 A

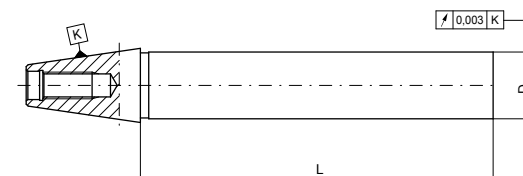
- Bohrstanzenrohling
- Machinable blank adapters



| Artikel Nr.<br>Code No. | K<br>7:24 | D  | A   |
|-------------------------|-----------|----|-----|
| 800000566               | 40        | 40 | 280 |
| 800000569               | 40        | 63 | 280 |
| 800000571               | 50        | 50 | 330 |
| 800000574               | 50        | 80 | 330 |

## 2852

- Prüfdorn
- Control arbor



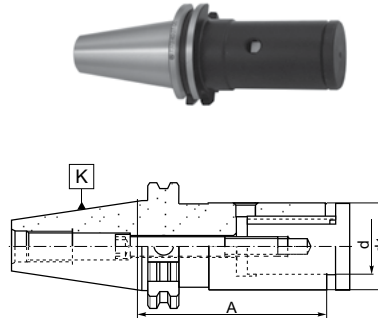
| Artikel Nr.<br>Code No. | K<br>7:24 | D  | L   |
|-------------------------|-----------|----|-----|
| 800006692               | 40        | 40 | 300 |
| 800006693               | 50        | 50 | 300 |



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | A   |  |  |  |
|-------------------------|-----------|----|----------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 800001596               | 40        | 16 | 29             | 95  | U-6520/0                                                                          | U-6510/0                                                                          | U-6526/0                                                                          |
| 800001597               | 40        | 16 | 29             | 125 | U-6520/0                                                                          | U-6511/0                                                                          | U-6527/0                                                                          |
| 800001598               | 40        | 22 | 36             | 95  | U-6523/0                                                                          | U-6512/0                                                                          | U-6528/0                                                                          |
| 800001599               | 40        | 22 | 36             | 125 | U-6523/0                                                                          | U-6513/0                                                                          | U-6529/0                                                                          |
| 800001600               | 40        | 27 | 42             | 95  | U-6523/0                                                                          | U-6514/0                                                                          | U-6530/0                                                                          |
| 800001601               | 40        | 27 | 42             | 125 | U-6523/0                                                                          | U-6515/0                                                                          | U-6531/0                                                                          |
| 800001602               | 40        | 32 | 50             | 95  | U-6523/0                                                                          | U-6516/0                                                                          | U-6532/0                                                                          |
| 800001603               | 40        | 32 | 50             | 125 | U-6523/0                                                                          | U-6517/0                                                                          | U-6533/0                                                                          |
| 800001604               | 50        | 22 | 36             | 100 | U-6524/0                                                                          | U-6512/0                                                                          | U-6528/0                                                                          |
| 800001605               | 50        | 22 | 36             | 125 | U-6524/0                                                                          | U-6513/0                                                                          | U-6529/0                                                                          |
| 800001606               | 50        | 27 | 42             | 100 | U-6524/0                                                                          | U-6514/0                                                                          | U-6530/0                                                                          |
| 800001607               | 50        | 27 | 42             | 125 | U-6524/0                                                                          | U-6515/0                                                                          | U-6531/0                                                                          |
| 800001608               | 50        | 32 | 50             | 100 | U-6524/0                                                                          | U-6516/0                                                                          | U-6532/0                                                                          |
| 800001609               | 50        | 32 | 50             | 125 | U-6524/0                                                                          | U-6517/0                                                                          | U-6533/0                                                                          |
| 800001610               | 50        | 40 | 58             | 100 | U-6524/0                                                                          | U-6518/0                                                                          | U-6534/0                                                                          |
| 800001611               | 50        | 40 | 58             | 125 | U-6524/0                                                                          | U-6519/0                                                                          | U-6535/0                                                                          |

## 7373 A

- Sägeblattaufnahme
- Milling arbors for disc milling cutters

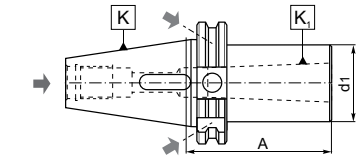


## 1681 AD+B

- Adapter für Werkzeuge mit MK-Schaft
- Combination Morse taper adapters for tools with drawbar thread or tang

\* nur für Werkzeuge mit Morse Kegel und Austreiblappen nach DIN 228-B  
\* only for tools with Morse taper and tang DIN 228-B shank

| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A   | d <sub>1</sub> |
|-------------------------|-----------|----------------------------------------|-----|----------------|
| 800000230               | 40        | 2                                      | 50  | 32             |
| 800000231               | 40        | 3*                                     | 70  | 40             |
| 800000232               | 40        | 4*                                     | 95  | 48             |
| 800000233               | 50        | 2                                      | 60  | 32             |
| 800000234               | 50        | 3                                      | 65  | 40             |
| 800000235               | 50        | 4                                      | 95  | 48             |
| 800000236               | 50        | 5*                                     | 120 | 63             |



\* nur für Werkzeuge mit Morse Kegel und Austreiblappen nach DIN 228-B  
\* only for tools with Morse taper and tang DIN 228-B shank

| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A   | d <sub>1</sub> | Abb.<br>Fig. |
|-------------------------|-----------|----------------------------------------|-----|----------------|--------------|
| 800000209               | 30        | 1                                      | 50  | 25             | 1            |
| 800000210               | 30        | 2*                                     | 60  | 32             | 1            |
| 800000211               | 30        | 3*                                     | 80  | 40             | 1            |
| 800000212               | 40        | 1                                      | 50  | 25             | 1            |
| 800000214               | 40        | 2                                      | 50  | 32             | 1            |
| 800000216               | 40        | 3*                                     | 70  | 40             | 1            |
| 800000218               | 40        | 4*                                     | 95  | 48             | 1            |
| 800000213               | 40        | 1                                      | 120 | 25             | 2            |
| 800000215               | 40        | 2                                      | 120 | 32             | 2            |
| 800000217               | 40        | 3*                                     | 135 | 40             | 2            |
| 800000219               | 40        | 4*                                     | 165 | 48             | 2            |
| 800000220               | 50        | 1                                      | 45  | 25             | 1            |
| 800000222               | 50        | 2                                      | 60  | 32             | 1            |
| 800000224               | 50        | 3                                      | 65  | 40             | 1            |
| 800000226               | 50        | 4                                      | 95  | 48             | 1            |
| 800000228               | 50        | 5*                                     | 105 | 63             | 1            |
| 800000221               | 50        | 1                                      | 120 | 25             | 2            |
| 800000223               | 50        | 2                                      | 135 | 32             | 2            |
| 800000225               | 50        | 3                                      | 155 | 40             | 2            |
| 800000227               | 50        | 4                                      | 180 | 48             | 2            |
| 800000229               | 50        | 5*                                     | 215 | 63             | 2            |

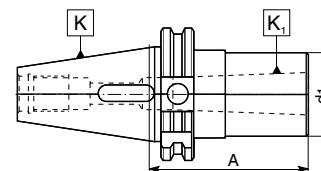


Abb. 1 Fig. 1

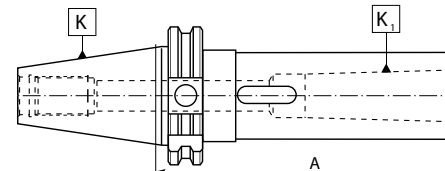


Abb. 2 Fig. 2



## 1681 AD

- Adapter für Werkzeuge mit MK-Schaft
- Combination Morse taper adapters for tools with drawbar thread or tang



## 1695 AD+B

- Reduzierhülse für Werkzeuge mit MK-Schaft und Anzugsgewinde DIN 228-A
- Morse taper adapters for tools with drawbar thread

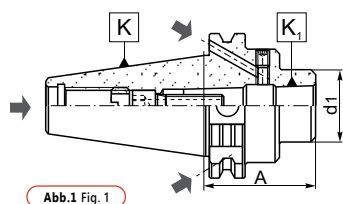


Abb.1 Fig. 1

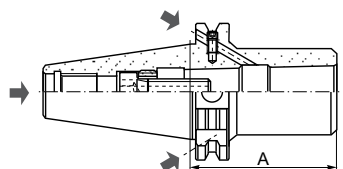


Abb. 2 Fig. 2

| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A   | d <sub>1</sub> | Abb.<br>Fig. |          |
|-------------------------|--------|----------------------------------------|-----|----------------|--------------|----------|
| 800000278               | 40     | 2                                      | 50  | 32             | 1            | W-1092/0 |
| 800000279               | 40     | 3                                      | 70  | 40             | 2            | W-1093/0 |
| 800000280               | 40     | 4                                      | 95  | 48             | 2            | W-1094/0 |
| 800000281               | 50     | 2                                      | 60  | 32             | 1            | W-1095/0 |
| 800000282               | 50     | 3                                      | 65  | 40             | 1            | W-1096/0 |
| 800000283               | 50     | 4                                      | 95  | 48             | 1            | W-1097/0 |
| 800000284               | 50     | 5                                      | 120 | 63             | 2            | W-1098/0 |

## 1682 A

- Reduzierhülse für Werkzeuge mit MK-Schaft und Anzugsgewinde DIN 228-A
- Morse taper adapters for tools with drawbar thread

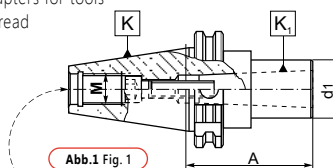


Abb.1 Fig. 1

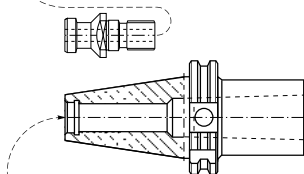
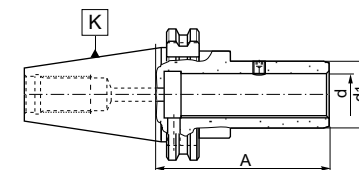


Abb. 2 Fig. 2

| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A  | d <sub>1</sub> | M   | Abb.<br>Fig. |          |
|-------------------------|--------|----------------------------------------|----|----------------|-----|--------------|----------|
| 800000237               | 40     | 1                                      | 45 | 25             | M16 | 1            | W-1091/0 |
| 800000238               | 40     | 2                                      | 60 | 32             | M16 | 1            | W-1092/0 |
| 800000239               | 40     | 3                                      | 75 | 40             | —   | 2            | —        |
| 800000240               | 40     | 4                                      | 85 | 48             | —   | 2            | —        |
| 800000241               | 50     | 1                                      | 45 | 25             | M24 | 1            | W-1091/0 |
| 800000242               | 50     | 2                                      | 45 | 32             | M24 | 1            | W-1095/0 |
| 800000243               | 50     | 3                                      | 60 | 40             | M24 | 1            | W-1096/0 |
| 800000244               | 50     | 4                                      | 75 | 48             | M24 | 1            | U-5984/0 |
| 800000245               | 50     | 5                                      | 75 | 63             | —   | 2            | —        |

## 1606 AD

- Werkzeugaufnahme für Werkzeuge mit Zylinderschaft DIN 6327
- DIN 6327 adjustable adapter holders



| Artikel Nr.<br>Code No. | K  | d  | d <sub>1</sub> | a   |          |
|-------------------------|----|----|----------------|-----|----------|
| 800000066               | 40 | 16 | 25             | 75  | U-1997/0 |
| 800000067               | 40 | 20 | 32             | 80  | U-1997/0 |
| 800000068               | 40 | 28 | 40             | 100 | U-7381/0 |
| 800000069               | 40 | 36 | 50             | 115 | U-7381/0 |
| 800000070               | 50 | 16 | 25             | 85  | U-1997/0 |
| 800000071               | 50 | 20 | 32             | 85  | U-1997/0 |
| 800000072               | 50 | 28 | 40             | 100 | U-7381/0 |
| 800000073               | 50 | 36 | 50             | 100 | U-7381/0 |
| 800000074               | 50 | 48 | 67             | 105 | U-7382/0 |

## 1695 AD

- Reduzierhülse für Werkzeuge mit MK-Schaft und Anzugsgewinde DIN 228-A
- Morse taper adapters for tools with drawbar thread

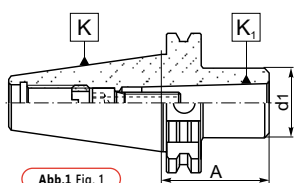


Abb.1 Fig. 1

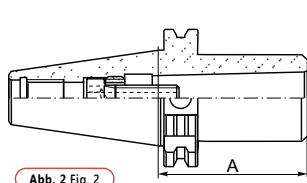
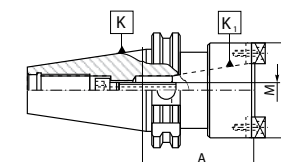


Abb. 2 Fig. 2

| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A   | d <sub>1</sub> | Abb.<br>Fig. |          |
|-------------------------|--------|----------------------------------------|-----|----------------|--------------|----------|
| 800000266               | 30     | 1                                      | 50  | 25             | 1            | W-1091/0 |
| 800000267               | 30     | 2                                      | 60  | 32             | 2            | W-1095/0 |
| 800000268               | 30     | 3                                      | 85  | 40             | 2            | U-7790/0 |
| 800000269               | 40     | 1                                      | 50  | 25             | 1            | W-1091/0 |
| 800000270               | 40     | 2                                      | 50  | 32             | 1            | W-1092/0 |
| 800000271               | 40     | 3                                      | 70  | 40             | 2            | W-1093/0 |
| 800000272               | 40     | 4                                      | 95  | 48             | 2            | W-1094/0 |
| 800000273               | 50     | 1                                      | 45  | 25             | 1            | W-1091/0 |
| 800000274               | 50     | 2                                      | 60  | 32             | 1            | W-1095/0 |
| 800000275               | 50     | 3                                      | 65  | 40             | 1            | W-1096/0 |
| 800000276               | 50     | 4                                      | 95  | 48             | 1            | W-1097/0 |
| 800000277               | 50     | 5                                      | 120 | 63             | 2            | W-1098/0 |

## 1684 AD

- Reduzierhülse für Werkzeuge mit SK-Schaft (von SK50:SK40)
- Reduction adapters for 7:24 tapers



| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> 7:24 | A  | D  | M   |          |
|-------------------------|--------|---------------------|----|----|-----|----------|
| 800000246               | 50     | 40                  | 80 | 88 | M16 | U-6227/0 |

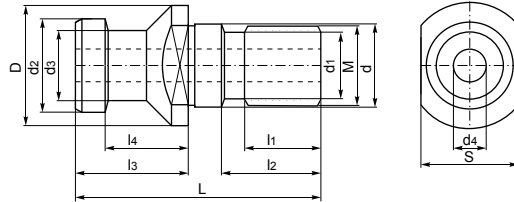






## 9882 A

- Anzugsbolzen nach DIN 69872-A
- Pull studs with through hole DIN 69872-A

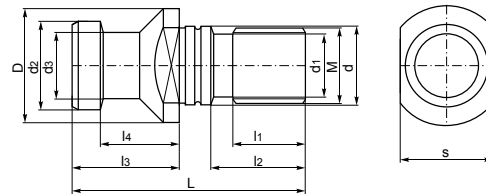


| Artikel Nr. | Größe | L   | D  | d  | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | M   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>4</sub> | S  |
|-------------|-------|-----|----|----|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----|
| Code No.    | Size  |     |    |    |                |                |                |                |     |                |                |                |                |    |
| 800002996   | 30    | 44  | 17 | 13 | 10,00          | 13             | 9              | 3,00           | M12 | 10             | 15             | 24             | 19             | 14 |
| 800002997   | 40    | 54  | 23 | 17 | 13,50          | 19             | 14             | 7,00           | M16 | 15             | 21             | 26             | 20             | 19 |
| 800002998   | 40    | 85  | 23 | 17 | 8,50           | 19             | 14             | 4,00           | M10 | 10             | 52             | 26             | 20             | 19 |
| 800003001   | 40    | 110 | 23 | 17 | 10,00          | 19             | 14             | 5,00           | M12 | 12             | 77             | 26             | 20             | 19 |
| 800002999   | 40    | 86  | 23 | 17 | 13,50          | 19             | 14             | 7,00           | M16 | 15             | 53             | 26             | 20             | 19 |
| 800003002   | 40    | 111 | 23 | 17 | 13,50          | 19             | 14             | 7,00           | M16 | 15             | 78             | 26             | 20             | 19 |
| 800003000   | 40    | 108 | 23 | 17 | 13,50          | 19             | 14             | 7,00           | M16 | 15             | 75             | 26             | 20             | 19 |
| 800003003   | 50    | 74  | 36 | 25 | 20,00          | 28             | 21             | 11,50          | M24 | 23             | 30             | 34             | 25             | 30 |
| 800003507   | 50    | 110 | 36 | 25 | 16,50          | 28             | 21             | 7,00           | M20 | 23             | 66             | 34             | 25             | 30 |



## 9882 B

- Anzugsbolzen nach DIN 69872-B
- Pull studs without through hole DIN 69872-B



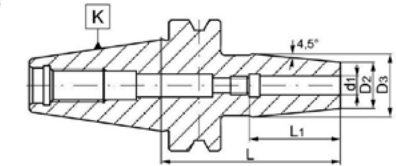
| Artikel Nr. | Größe | L  | D  | d  | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | M   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>4</sub> | S  |
|-------------|-------|----|----|----|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----|
| Code No.    | Size  |    |    |    |                |                |                |     |                |                |                |                |    |
| 800003004   | 30    | 44 | 17 | 13 | 10,00          | 13             | 9              | M12 | 10             | 15             | 24             | 19             | 14 |
| 800003005   | 40    | 54 | 23 | 17 | 13,50          | 19             | 14             | M16 | 15             | 21             | 26             | 20             | 19 |
| 800003006   | 50    | 74 | 36 | 25 | 20,00          | 28             | 21             | M24 | 23             | 30             | 34             | 25             | 30 |

| Artikel Nr. | K    | d <sub>1</sub> | L   | L <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> |
|-------------|------|----------------|-----|----------------|----------------|----------------|
| Code No.    | 7:24 |                |     |                |                |                |
| 800006333   | 40   | 3              | 80  | 36             | 14             | 22             |
| 800006334   | 40   | 3              | 120 | 36             | 14             | 22             |
| 800006335   | 40   | 3              | 160 | 36             | 14             | 22             |
| 800006336   | 40   | 4              | 80  | 36             | 14             | 22             |
| 800006337   | 40   | 4              | 120 | 36             | 14             | 22             |
| 800006338   | 40   | 4              | 160 | 36             | 15             | 22             |
| 800006339   | 40   | 5              | 80  | 36             | 16             | 22             |
| 800006340   | 40   | 5              | 120 | 36             | 16             | 22             |
| 800006341   | 40   | 5              | 160 | 36             | 16             | 22             |
| 800006342   | 40   | 6              | 80  | 36             | 21             | 27             |
| 800006343   | 40   | 6              | 120 | 36             | 21             | 27             |
| 800006344   | 40   | 6              | 160 | 36             | 21             | 27             |
| 800006345   | 40   | 8              | 80  | 36             | 21             | 27             |
| 800006346   | 40   | 8              | 120 | 36             | 21             | 27             |
| 800006347   | 40   | 8              | 160 | 36             | 21             | 27             |
| 800006348   | 40   | 10             | 80  | 42             | 24             | 32             |
| 800006349   | 40   | 10             | 120 | 42             | 24             | 32             |
| 800006350   | 40   | 10             | 160 | 42             | 24             | 32             |
| 800006351   | 40   | 12             | 80  | 47             | 24             | 32             |
| 800006352   | 40   | 12             | 120 | 47             | 24             | 32             |
| 800006353   | 40   | 12             | 160 | 47             | 24             | 32             |
| 800006354   | 40   | 14             | 80  | 47             | 27             | 34             |
| 800006355   | 40   | 14             | 120 | 47             | 27             | 34             |
| 800006356   | 40   | 14             | 160 | 47             | 27             | 34             |
| 800006357   | 40   | 16             | 80  | 50             | 27             | 34             |
| 800006358   | 40   | 16             | 120 | 50             | 27             | 34             |
| 800006359   | 40   | 16             | 160 | 50             | 27             | 34             |
| 800006360   | 40   | 18             | 80  | 50             | 33             | 42             |
| 800006361   | 40   | 18             | 120 | 50             | 33             | 42             |
| 800006362   | 40   | 18             | 160 | 50             | 33             | 42             |
| 800006363   | 40   | 20             | 80  | 52             | 33             | 42             |
| 800006364   | 40   | 20             | 120 | 52             | 33             | 42             |
| 800006365   | 40   | 20             | 160 | 52             | 33             | 42             |
| 800006366   | 40   | 25             | 100 | 58             | 44             | 53             |
| 800006367   | 40   | 25             | 120 | 58             | 44             | 53             |
| 800006368   | 40   | 25             | 160 | 58             | 44             | 53             |
| 800006369   | 40   | 32             | 100 | 58             | 44             | 53             |
| 800006370   | 40   | 32             | 120 | 58             | 44             | 53             |
| 800006371   | 40   | 32             | 160 | 58             | 44             | 53             |



## 7630

- Schrumpfaufnahmen
- Shrink fit holders



\* Geeignet für HSS- und Vollhartmetall-Werkzeuge mit Zylinderschaft (Toleranz h6)  
\* Suitable for HSS and solid carbide tools with cylindrical shank (h6 tolerance)

| Artikel Nr. | K    | d <sub>1</sub> | L   | L <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> |
|-------------|------|----------------|-----|----------------|----------------|----------------|
| Code No.    | 7:24 |                |     |                |                |                |
| 800006372   | 50   | 6              | 80  | 36             | 21             | 27             |
| 800006373   | 50   | 6              | 120 | 36             | 21             | 27             |
| 800006374   | 50   | 6              | 160 | 36             | 21             | 27             |
| 800006375   | 50   | 8              | 80  | 36             | 21             | 27             |
| 800006376   | 50   | 8              | 120 | 36             | 21             | 27             |
| 800006377   | 50   | 8              | 160 | 36             | 21             | 27             |
| 800006378   | 50   | 10             | 80  | 42             | 24             | 32             |
| 800006379   | 50   | 10             | 120 | 42             | 24             | 32             |
| 800006380   | 50   | 10             | 160 | 42             | 24             | 32             |
| 800006381   | 50   | 12             | 80  | 47             | 24             | 32             |
| 800006382   | 50   | 12             | 120 | 47             | 24             | 32             |
| 800006383   | 50   | 12             | 160 | 47             | 24             | 32             |
| 800006384   | 50   | 14             | 80  | 47             | 27             | 34             |
| 800006385   | 50   | 14             | 120 | 47             | 27             | 34             |
| 800006386   | 50   | 14             | 160 | 47             | 27             | 34             |
| 800006387   | 50   | 16             | 80  | 50             | 27             | 34             |
| 800006388   | 50   | 16             | 120 | 50             | 27             | 34             |
| 800006389   | 50   | 16             | 160 | 50             | 27             | 34             |
| 800006390   | 50   | 18             | 80  | 50             | 33             | 42             |
| 800006391   | 50   | 18             | 120 | 50             | 33             | 42             |
| 800006392   | 50   | 18             | 160 | 50             | 33             | 42             |
| 800006393   | 50   | 20             | 80  | 52             | 33             | 42             |
| 800006394   | 50   | 20             | 120 | 52             | 33             | 42             |
| 800006395   | 50   | 20             | 160 | 52             | 33             | 42             |
| 800006396   | 50   | 25             | 100 | 58             | 44             | 53             |
| 800006397   | 50   | 25             | 120 | 58             | 44             | 53             |
| 800006398   | 50   | 25             | 160 | 58             | 44             | 53             |
| 800006399   | 50   | 32             | 100 | 58             | 44             | 53             |
| 800006400   | 50   | 32             | 120 | 58             | 44             | 53             |
| 800006401   | 50   | 32             | 160 | 58             | 44             | 53             |



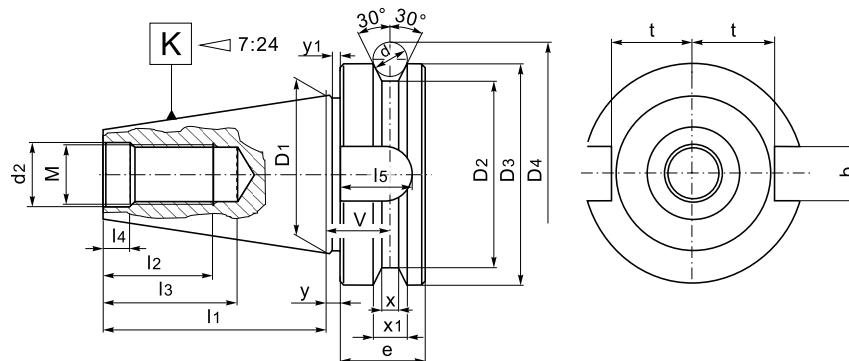
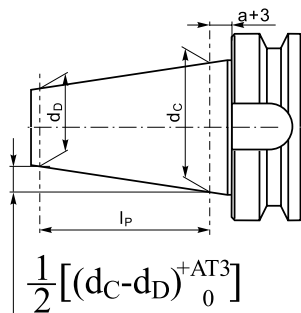
## MAS 403-BT

Standardmerkmale der Werkzeuge:

- Hergestellt aus Chrom Mangan Stahl
- Einsatzgehärtet auf eine Tiefe von 0,7mm
- Gehärtet und präzisionsgeschliffen
- Oberflächenhärte HRC 58±2
- Konuswinkel: Toleranz AT3

Standard features of the tools:

- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm
- Hardened and precision ground
- Surface hardness RC 58±2
- Taper angle: tolerance AT3



| K 7:24 | d <sub>C</sub> -d <sub>D</sub> | l <sub>P</sub> | a | AT3   |
|--------|--------------------------------|----------------|---|-------|
| 30     | 12,250                         | 42             | 2 | 0,002 |
| 40     | 17,208                         | 59             | 2 | 0,003 |
| 50     | 26,833                         | 92             | 3 | 0,004 |

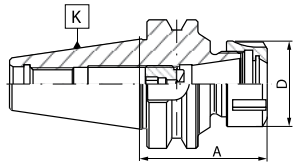
| K 7:24 | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | D <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>4</sub> | l <sub>5</sub> | bH12 | t    | d  | d <sub>2</sub> H7 | M   | e  | v    | x | x <sub>1</sub> | y | y <sub>1</sub> |
|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|------|----|-------------------|-----|----|------|---|----------------|---|----------------|
| 30     | 31,75          | 38             | 46             | 56,1           | 48,4           | 24             | 34             | 7              | 17             | 16,1 | 16,3 | 8  | 12,5              | M12 | 20 | 13,6 | 4 | 8              | 2 | 2              |
| 40     | 44,45          | 53             | 63             | 75,6           | 65,4           | 30             | 43             | 9              | 21             | 16,1 | 22,6 | 10 | 17,0              | M16 | 25 | 16,6 | 5 | 10             | 2 | 2              |
| 50     | 69,85          | 85             | 100            | 119,0          | 101,8          | 45             | 62             | 13             | 31             | 25,7 | 35,4 | 15 | 25,0              | M24 | 35 | 23,2 | 7 | 15             | 3 | 3              |





## 7626 AD

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)

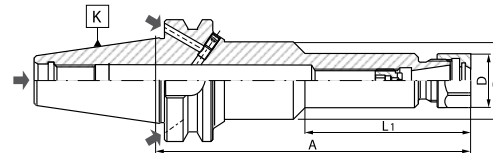


| Artikel Nr.<br>Code No. | K<br>7:24 | Spannzangen<br>Collet size | A   | Spannbereich<br>Clamping range | D  |           |              |
|-------------------------|-----------|----------------------------|-----|--------------------------------|----|-----------|--------------|
| 800002304               | 30        | ER16                       | 60  | 2-10                           | 32 | 9833-16ES | M10x11LH     |
| 800003719               | 30        | ER25                       | 60  | 2-16                           | 42 | 9833-25ES | M18x1,5x19LH |
| 800002305               | 30        | ER32                       | 60  | 2-20                           | 50 | 9833-32ES | M18x1,5x19LH |
| 800003720               | 40        | ER16                       | 60  | 2-10                           | 32 | 9833-16ES | M12x1,5x14LH |
| 800002306               | 40        | ER25                       | 60  | 2-16                           | 42 | 9833-25ES | M18x1,5x19LH |
| 800004914               | 40        | ER25                       | 100 | 2-16                           | 42 | 9833-25ES | M18x1,5x19LH |
| 800006783               | 40        | ER25                       | 130 | 2-16                           | 42 | 9833-25ES | M18x1,5x19LH |
| 800002307               | 40        | ER32                       | 70  | 2-20                           | 50 | 9833-32ES | M22x1,5x24LH |
| 800006785               | 40        | ER32                       | 100 | 2-20                           | 50 | 9833-32ES | M22x1,5x24LH |
| 800002308               | 40        | ER32                       | 130 | 2-20                           | 50 | 9833-32ES | M22x1,5x24LH |
| 800002309               | 40        | ER40                       | 70  | 2-26                           | 63 | 9833-40ES | M28x1,5x30LH |
| 800002310               | 40        | ER40                       | 80  | 2-26                           | 63 | 9833-40ES | M28x1,5x30LH |
| 800002311               | 50        | ER32                       | 70  | 2-20                           | 50 | 9833-32ES | M22x1,5x24LH |
| 800002312               | 50        | ER32                       | 130 | 2-20                           | 50 | 9833-32ES | M22x1,5x24LH |
| 800002313               | 50        | ER40                       | 80  | 2-26                           | 63 | 9833-40ES | M28x1,5x30LH |
| 800002451               | 50        | ER40                       | 130 | 2-26                           | 63 | 9833-40ES | M28x1,5x30LH |



## 7626-S AD+B

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)
- slim design

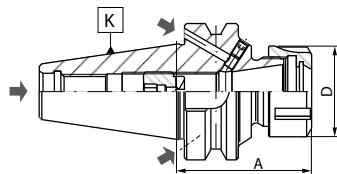


| Artikel Nr.<br>Code No. | K<br>7:24 | Spannzangen<br>Collet size | A   | Spannbereich<br>Clamping range | L <sub>1</sub> | D  | D <sub>1</sub> |          |              |
|-------------------------|-----------|----------------------------|-----|--------------------------------|----------------|----|----------------|----------|--------------|
| 800002465               | 40        | ER16                       | 100 | 2-10                           | —              | 28 | —              | 9833-16D | M12x1,5x14LH |
| 800002466               | 40        | ER16                       | 160 | 2-10                           | 86             | 28 | 40             | 9833-16D | M12x1,5x14LH |
| 800002467               | 50        | ER16                       | 100 | 2-10                           | —              | 28 | —              | 9833-16D | M12x1,5x14LH |
| 800002468               | 50        | ER16                       | 160 | 2-10                           | 86             | 28 | 40             | 9833-16D | M12x1,5x14LH |



## 7626 AD+B

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)

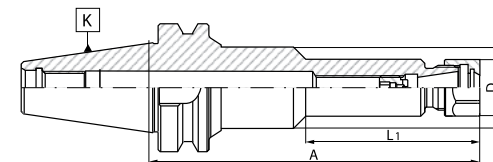


| Artikel Nr.<br>Code No. | K<br>7:24 | Spannzangen<br>Collet size | A   | Spannbereich<br>Clamping range | D  |           |              |
|-------------------------|-----------|----------------------------|-----|--------------------------------|----|-----------|--------------|
| 800002452               | 40        | ER16                       | 60  | 2-10                           | 32 | 9833-16ES | M12x1,5x14LH |
| 800002453               | 40        | ER25                       | 60  | 2-16                           | 42 | 9833-25ES | M18x1,5x19LH |
| 800006784               | 40        | ER25                       | 160 | 2-16                           | 42 | 9833-25ES | M18x1,5x19LH |
| 800002454               | 40        | ER32                       | 70  | 2-20                           | 50 | 9833-32ES | M22x1,5x24LH |
| 800002455               | 40        | ER32                       | 160 | 2-20                           | 50 | 9833-32ES | M22x1,5x24LH |
| 800002456               | 40        | ER40                       | 70  | 2-26                           | 63 | 9833-40ES | M28x1,5x30LH |
| 800002457               | 50        | ER32                       | 70  | 2-20                           | 50 | 9833-32ES | M22x1,5x24LH |
| 800002458               | 50        | ER32                       | 160 | 2-20                           | 50 | 9833-32ES | M22x1,5x24LH |
| 800002459               | 50        | ER40                       | 80  | 2-26                           | 63 | 9833-40ES | M28x1,5x30LH |
| 800002460               | 50        | ER40                       | 160 | 2-26                           | 63 | 9833-40ES | M28x1,5x30LH |



## 7626-S

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)
- slim design



| Artikel Nr.<br>Code No. | K<br>7:24 | Spannzangen<br>Collet size | A   | Spannbereich<br>Clamping range | L <sub>1</sub> | D  | D <sub>1</sub> |          |              |
|-------------------------|-----------|----------------------------|-----|--------------------------------|----------------|----|----------------|----------|--------------|
| 800002461               | 40        | ER16                       | 100 | 2-10                           | —              | 28 | —              | 9833-16D | M12x1,5x14LH |
| 800002462               | 40        | ER16                       | 150 | 2-10                           | 85             | 28 | 40             | 9833-16D | M12x1,5x14LH |
| 800002463               | 50        | ER16                       | 100 | 2-10                           | —              | 28 | —              | 9833-16D | M12x1,5x14LH |
| 800002464               | 50        | ER16                       | 150 | 2-10                           | 85             | 28 | 40             | 9833-16D | M12x1,5x14LH |

## 7626-KPL

## 7626-PL

## 7626-S PL

- ER-Spannzangenfutter - Komplet-Set oder Satz zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks with ER collets (DIN 6499)
- set or small set



| Artikel Nr.<br>Code No.                            | K<br>7:24 | Spannzangen<br>Collet size | A   | Spannbereich<br>Clamping range | Teilung<br>Collets in set |
|----------------------------------------------------|-----------|----------------------------|-----|--------------------------------|---------------------------|
| <b>7626-KPL</b>                                    |           |                            |     |                                |                           |
| 800002469                                          | 30        | ER16                       | 60  | 2-10                           | 8                         |
| 800002470                                          | 30        | ER32                       | 60  | 2-20                           | 18                        |
| 800002471                                          | 40        | ER25                       | 60  | 2-16                           | 14                        |
| 800002472                                          | 40        | ER32                       | 70  | 2-20                           | 18                        |
| 800002314                                          | 40        | ER32                       | 130 | 2-20                           | 18                        |
| 800002315                                          | 40        | ER40                       | 70  | 2-26                           | 24                        |
| 800002316                                          | 50        | ER32                       | 70  | 2-20                           | 18                        |
| 800002317                                          | 50        | ER32                       | 130 | 2-20                           | 18                        |
| 800002318                                          | 50        | ER40                       | 80  | 2-26                           | 24                        |
| 800002319                                          | 50        | ER40                       | 130 | 2-26                           | 24                        |
| <b>7626-PL</b>                                     |           |                            |     |                                |                           |
| 800002324                                          | 30        | ER32                       | 60  | 3-20                           | 8                         |
| Spannzangen • Collets Ø 4, 5, 6, 8, 10, 12, 16, 20 |           |                            |     |                                |                           |
| 800002325                                          | 40        | ER32                       | 70  | 3-20                           | 8                         |
| Spannzangen • Collets Ø 4, 5, 6, 8, 10, 12, 16, 20 |           |                            |     |                                |                           |
| 800002326                                          | 50        | ER32                       | 70  | 3-20                           | 8                         |
| Spannzangen • Collets Ø 4, 5, 6, 8, 10, 12, 16, 20 |           |                            |     |                                |                           |
| <b>7626-S PL</b>                                   |           |                            |     |                                |                           |
| 800002320                                          | 40        | ER16                       | 100 | 2-10                           | 8                         |
| 800002321                                          | 40        | ER16                       | 150 | 2-10                           | 8                         |
| 800002322                                          | 50        | ER16                       | 100 | 2-10                           | 8                         |
| 800002323                                          | 50        | ER16                       | 150 | 2-10                           | 8                         |

KPL - Komplet-Set mit Freifläche für Werkzeughalter • set with empty space for toolholder  
PL - Satz mit Freifläche für Werkzeughalter • small set with empty space for toolholder  
S PL - Satz mit Freifläche für schmalen Werkzeughalter • small set with empty space for slim design toolholder



## 7624

- Weld on Flächenspannfutter zur Aufnahme von Werkzeugen mit Zylinderschaft und seitlicher Mitnehmerfläche nach DIN 1835-B
- Weld on type end mill holders DIN 1835-B

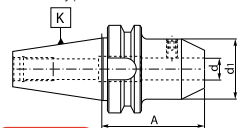


Abb. 1 Fig. 1

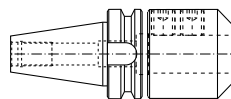


Abb. 2 Fig. 2

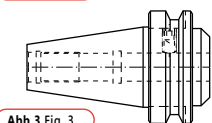


Abb. 3 Fig. 3

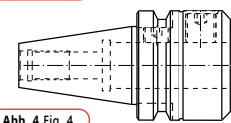


Abb. 4 Fig. 4

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | d <sub>1</sub> | Abb.<br>Fig. |                   |
|-------------------------|-----------|----|-----|----------------|--------------|-------------------|
| 800002001               | 30        | 6  | 50  | 25             | 1            | U-4131/0          |
| 800002002               | 30        | 8  | 50  | 28             | 1            | U-4132/0          |
| 800002003               | 30        | 10 | 50  | 35             | 1            | U-4133/0          |
| 800002004               | 30        | 12 | 50  | 42             | 1            | U-4134/0          |
| 800002005               | 30        | 16 | 63  | 48             | 1            | U-4135/0          |
| 800002006               | 30        | 20 | 63  | 52             | 1            | U-4136/0          |
| 800002007               | 40        | 6  | 35  | 25             | 3            | U-4131/0          |
| 800002008               | 40        | 6  | 50  | 25             | 1            | U-4131/0          |
| 800002009               | 40        | 8  | 35  | 28             | 3            | U-4132/0          |
| 800002010               | 40        | 8  | 50  | 28             | 1            | U-4132/0          |
| 800002011               | 40        | 10 | 37  | 35             | 3            | U-4133/0          |
| 800002012               | 40        | 10 | 63  | 35             | 1            | U-4133/0          |
| 800002013               | 40        | 12 | 37  | 42             | 3            | U-4134/0          |
| 800002014               | 40        | 12 | 63  | 42             | 1            | U-4134/0          |
| 800002015               | 40        | 14 | 37  | 44             | 3            | U-4134/0          |
| 800002016               | 40        | 14 | 63  | 44             | 1            | U-4134/0          |
| 800002017               | 40        | 16 | 37  | 48             | 3            | U-4135/0          |
| 800002018               | 40        | 16 | 63  | 48             | 1            | U-4135/0          |
| 800002020               | 40        | 20 | 37  | 50             | 3            | U-6756/0          |
| 800002021               | 40        | 20 | 63  | 50             | 1            | U-4136/0          |
| 800002022               | 40        | 25 | 60  | 63             | 4            | U-4137/0 U-6755/0 |
| 800002023               | 40        | 25 | 90  | 63             | 2            | 2 x U-4137/0      |
| 800002024               | 40        | 32 | 65  | 72             | 4            | U-4138/0 U-6755/0 |
| 800002025               | 40        | 32 | 100 | 72             | 2            | 2 x U-4138/0      |
| 800002026               | 50        | 6  | 63  | 25             | 1            | U-4131/0          |
| 800002027               | 50        | 8  | 63  | 28             | 1            | U-4132/0          |
| 800002028               | 50        | 10 | 63  | 35             | 1            | U-4133/0          |
| 800002029               | 50        | 12 | 80  | 42             | 1            | U-4134/0          |
| 800002030               | 50        | 14 | 80  | 44             | 1            | U-4134/0          |
| 800002031               | 50        | 16 | 80  | 48             | 1            | U-4135/0          |
| 800002032               | 50        | 20 | 40  | 52             | 3            | U-4136/0          |
| 800002033               | 50        | 20 | 80  | 52             | 1            | U-4136/0          |
| 800002034               | 50        | 25 | 60  | 63             | 4            | 2 x U-4137/0      |
| 800002035               | 50        | 25 | 100 | 63             | 2            | 2 x U-4137/0      |
| 800002036               | 50        | 32 | 70  | 72             | 4            | 2 x U-4138/0      |
| 800002037               | 50        | 32 | 105 | 72             | 2            | 2 x U-4138/0      |
| 800002038               | 50        | 40 | 120 | 90             | 2            | 2 x U-5870/0      |
| 800002039               | 50        | 50 | 130 | 100            | 2            | 2 x U-4139/0      |

## 7624 AD+B

- Weld on Flächenspannfutter zur Aufnahme von Werkzeugen mit Zylinderschaft und seitlicher Mitnehmerfläche nach DIN 1835-B
- Weld on type end mill holders DIN 1835-B

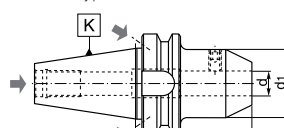


Abb. 1 Fig. 1

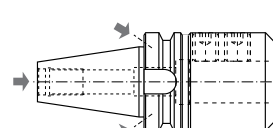


Abb. 2 Fig. 2

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | d <sub>1</sub> | Abb.<br>Fig. |              |
|-------------------------|-----------|----|-----|----------------|--------------|--------------|
| 800002040               | 40        | 6  | 50  | 25,0           | 1            | U-4131/0     |
| 800002041               | 40        | 6  | 100 | 25,0           | 1            | U-4131/0     |
| 800002042               | 40        | 6  | 130 | 25,0           | 1            | U-4131/0     |
| 800002043               | 40        | 6  | 160 | 25,0           | 1            | U-4131/0     |
| 800002044               | 40        | 6  | 200 | 25,0           | 1            | U-4131/0     |
| 800002045               | 40        | 8  | 50  | 28,0           | 1            | U-4132/0     |
| 800002046               | 40        | 8  | 100 | 28,0           | 1            | U-4132/0     |
| 800002047               | 40        | 8  | 130 | 28,0           | 1            | U-4132/0     |
| 800002048               | 40        | 8  | 160 | 28,0           | 1            | U-4132/0     |
| 800002049               | 40        | 8  | 200 | 28,0           | 1            | U-4132/0     |
| 800002050               | 40        | 10 | 60  | 35,0           | 1            | U-4133/0     |
| 800002051               | 40        | 10 | 100 | 35,0           | 1            | U-4133/0     |
| 800002052               | 40        | 10 | 130 | 35,0           | 1            | U-4133/0     |
| 800002053               | 40        | 10 | 160 | 35,0           | 1            | U-4133/0     |
| 800002054               | 40        | 10 | 200 | 35,0           | 1            | U-4133/0     |
| 800002055               | 40        | 12 | 60  | 42,0           | 1            | U-4134/0     |
| 800002056               | 40        | 12 | 100 | 42,0           | 1            | U-4134/0     |
| 800002057               | 40        | 12 | 130 | 42,0           | 1            | U-4134/0     |
| 800002058               | 40        | 12 | 160 | 42,0           | 1            | U-4134/0     |
| 800002059               | 40        | 12 | 200 | 42,0           | 1            | U-4134/0     |
| 800002060               | 40        | 14 | 60  | 44,0           | 1            | U-4134/0     |
| 800002061               | 40        | 14 | 100 | 44,0           | 1            | U-4134/0     |
| 800002062               | 40        | 14 | 130 | 44,0           | 1            | U-4134/0     |
| 800002063               | 40        | 14 | 160 | 44,0           | 1            | U-4134/0     |
| 800002064               | 40        | 14 | 200 | 44,0           | 1            | U-4134/0     |
| 800002065               | 40        | 16 | 63  | 48,0           | 1            | U-4135/0     |
| 800002066               | 40        | 16 | 100 | 48,0           | 1            | U-4135/0     |
| 800002067               | 40        | 16 | 130 | 48,0           | 1            | U-4135/0     |
| 800002068               | 40        | 16 | 160 | 48,0           | 1            | U-4135/0     |
| 800002069               | 40        | 16 | 200 | 48,0           | 1            | U-4135/0     |
| 800002070               | 40        | 18 | 63  | 49,5           | 1            | U-4135/0     |
| 800002071               | 40        | 18 | 100 | 49,5           | 1            | U-4135/0     |
| 800002072               | 40        | 18 | 130 | 49,5           | 1            | U-4135/0     |
| 800002073               | 40        | 18 | 160 | 49,5           | 1            | U-4135/0     |
| 800002074               | 40        | 18 | 200 | 49,5           | 1            | U-4135/0     |
| 800002075               | 40        | 20 | 63  | 49,5           | 1            | U-4136/0     |
| 800002076               | 40        | 20 | 100 | 49,5           | 1            | U-4136/0     |
| 800002077               | 40        | 20 | 130 | 49,5           | 1            | U-4136/0     |
| 800002078               | 40        | 20 | 160 | 49,5           | 1            | U-4136/0     |
| 800002079               | 40        | 20 | 200 | 49,5           | 1            | U-4136/0     |
| 800002080               | 40        | 25 | 100 | 63,0           | 2            | 2 x U-4137/0 |
| 800002081               | 40        | 25 | 130 | 63,0           | 2            | 2 x U-4137/0 |
| 800002082               | 40        | 25 | 160 | 63,0           | 2            | 2 x U-4137/0 |

| Artikel Nr.<br>Code No. | K 7:24 | d  | A   | d <sub>1</sub> | Abb.<br>Fig. |              |
|-------------------------|--------|----|-----|----------------|--------------|--------------|
| 800002083               | 40     | 25 | 200 | 63,0           | 2            | 2 x U-4137/0 |
| 800002084               | 40     | 32 | 100 | 72,0           | 2            | 2 x U-4138/0 |
| 800002085               | 40     | 32 | 130 | 72,0           | 2            | 2 x U-4138/0 |
| 800002086               | 40     | 32 | 160 | 72,0           | 2            | 2 x U-4138/0 |
| 800002087               | 40     | 32 | 200 | 72,0           | 2            | 2 x U-4138/0 |
| 800002088               | 50     | 6  | 63  | 25,0           | 1            | U-4131/0     |
| 800002089               | 50     | 6  | 100 | 25,0           | 1            | U-4131/0     |
| 800002090               | 50     | 6  | 130 | 25,0           | 1            | U-4131/0     |
| 800002091               | 50     | 6  | 160 | 25,0           | 1            | U-4131/0     |
| 800002092               | 50     | 6  | 200 | 25,0           | 1            | U-4131/0     |
| 800002093               | 50     | 8  | 63  | 28,0           | 1            | U-4132/0     |
| 800002094               | 50     | 8  | 100 | 28,0           | 1            | U-4132/0     |
| 800002095               | 50     | 8  | 130 | 28,0           | 1            | U-4132/0     |
| 800002096               | 50     | 8  | 160 | 28,0           | 1            | U-4132/0     |
| 800002097               | 50     | 8  | 200 | 28,0           | 1            | U-4132/0     |
| 800002098               | 50     | 10 | 70  | 35,0           | 1            | U-4133/0     |
| 800002099               | 50     | 10 | 100 | 35,0           | 1            | U-4133/0     |
| 800002100               | 50     | 10 | 130 | 35,0           | 1            | U-4133/0     |
| 800002101               | 50     | 10 | 160 | 35,0           | 1            | U-4133/0     |
| 800002102               | 50     | 10 | 200 | 35,0           | 1            | U-4133/0     |
| 800002103               | 50     | 12 | 80  | 42,0           | 1            | U-4134/0     |
| 800002104               | 50     | 12 | 100 | 42,0           | 1            | U-4134/0     |
| 800002105               | 50     | 12 | 130 | 42,0           | 1            | U-4134/0     |
| 800002106               | 50     | 12 | 160 | 42,0           | 1            | U-4134/0     |
| 800002107               | 50     | 12 | 200 | 42,0           | 1            | U-4134/0     |
| 800002108               | 50     | 14 | 80  | 44,0           | 1            | U-4134/0     |
| 800002109               | 50     | 14 | 100 | 44,0           | 1            | U-4134/0     |
| 800002110               | 50     | 14 | 130 | 44,0           | 1            | U-4134/0     |
| 800002111               | 50     | 14 | 160 | 44,0           | 1            | U-4134/0     |
| 800002112               | 50     | 14 | 200 | 44,0           | 1            | U-4134/0     |
| 800002113               | 50     | 16 | 80  | 48,0           | 1            | U-4135/0     |
| 800002114               | 50     | 16 | 100 | 48,0           | 1            | U-4135/0     |
| 800002115               | 50     | 16 | 130 | 48,0           | 1            | U-4135/0     |
| 800002116               | 50     | 16 | 160 | 48,0           | 1            | U-4135/0     |
| 800002117               | 50     | 16 | 200 | 48,0           | 1            | U-4135/0     |
| 800002118               | 50     | 18 | 80  | 50,0           | 1            | U-4135/0     |
| 800002119               | 50     | 18 | 100 | 50,0           | 1            | U-4135/0     |
| 800002120               | 50     | 18 | 130 | 50,0           | 1            | U-4135/0     |
| 800002121               | 50     | 18 | 160 | 50,0           | 1            | U-4135/0     |
| 800002122               | 50     | 18 | 200 | 50,0           | 1            | U-4135/0     |
| 800002123               | 50     | 20 | 80  | 52,0           | 1            | U-4136/0     |
| 800002124               | 50     | 20 | 100 | 52,0           | 1            | U-4136/0     |
| 800002125               | 50     | 20 | 130 | 52,0           | 1            | U-4136/0     |
| 800002126               | 50     | 20 | 160 | 52,0           | 1            | U-4136/0     |
| 800002127               | 50     | 20 | 200 | 52,0           | 1            | U-4136/0     |
| 800002128               | 50     | 25 | 100 | 65,0           | 2            | 2 x U-4137/0 |
| 800002129               | 50     | 25 | 130 | 65,0           | 2            | 2 x U-4137/0 |
| 800002130               | 50     | 25 | 160 | 65,0           | 2            | 2 x U-4137/0 |
| 800002131               | 50     | 25 | 200 | 65,0           | 2            | 2 x U-4137/0 |
| 800002132               | 50     | 32 | 105 | 72,0           | 2            | 2 x U-4138/0 |
| 800002133               | 50     | 32 | 130 | 72,0           | 2            | 2 x U-4138/0 |
| 800002134               | 50     | 32 | 160 | 72,0           | 2            | 2 x U-4138/0 |
| 800002135               | 50     | 32 | 200 | 72,0           | 2            | 2 x U-4138/0 |
| 800002136               | 50     | 40 | 120 | 90,0           | 2            | 2 x U-5870/0 |
| 800002137               | 50     | 40 | 160 | 90,0           | 2            | 2 x U-5870/0 |
| 800002138               | 50     | 40 | 200 | 90,0           | 2            | 2 x U-5870/0 |

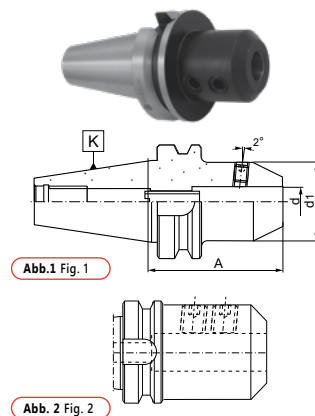




| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | A   | Abb.<br>Fig. |              |          |
|-------------------------|-----------|----|----------------|-----|--------------|--------------|----------|
| 800002369               | 40        | 6  | 25             | 50  | 1            | U-4131/0     | U-1599/0 |
| 800002370               | 40        | 8  | 28             | 50  | 1            | U-4132/0     | U-6317/0 |
| 800002371               | 40        | 10 | 35             | 63  | 1            | U-4133/0     | U-0293/0 |
| 800002372               | 40        | 12 | 42             | 63  | 1            | U-4134/0     | U-0757/0 |
| 800002373               | 40        | 14 | 44             | 63  | 1            | U-4135/0     | U-6318/0 |
| 800002374               | 40        | 16 | 48             | 63  | 1            | U-4135/0     | U-6318/0 |
| 800002375               | 40        | 18 | 50             | 63  | 1            | U-4136/0     | U-6793/0 |
| 800002376               | 40        | 20 | 52             | 63  | 1            | U-4136/0     | U-6793/0 |
| 800002377               | 40        | 25 | 65             | 90  | 2            | 2 x U-4137/0 | U-6794/0 |
| 800002378               | 40        | 32 | 72             | 100 | 2            | 2 x U-4138/0 | U-6794/0 |
| 800002379               | 50        | 6  | 25             | 63  | 1            | U-4131/0     | U-1599/0 |
| 800002380               | 50        | 8  | 28             | 63  | 1            | U-4132/0     | U-6317/0 |
| 800002381               | 50        | 10 | 35             | 65  | 1            | U-4133/0     | U-0293/0 |
| 800002382               | 50        | 12 | 42             | 80  | 1            | U-4134/0     | U-0757/0 |
| 800002383               | 50        | 14 | 44             | 80  | 1            | U-4135/0     | U-6318/0 |
| 800002384               | 50        | 16 | 48             | 80  | 1            | U-4135/0     | U-6318/0 |
| 800002385               | 50        | 18 | 50             | 80  | 1            | U-4136/0     | U-6793/0 |
| 800002386               | 50        | 20 | 52             | 80  | 1            | U-4136/0     | U-6793/0 |
| 800002387               | 50        | 25 | 65             | 100 | 2            | 2 x U-4137/0 | U-6794/0 |
| 800002388               | 50        | 32 | 72             | 105 | 2            | 2 x U-4138/0 | U-6794/0 |
| 800002389               | 50        | 40 | 90             | 120 | 2            | 2 x U-5870/0 | U-6794/0 |

## 7629

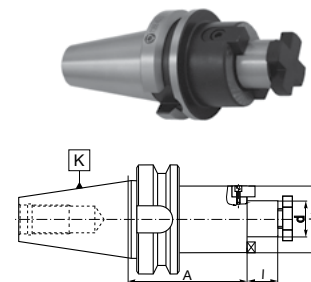
- Whistle-Notch Aufnahme für Werkzeuge mit Zylinderschaft und geneigter Spannfläche nach DIN 1835-E
- End mill holder for Whistle-Notch type end mills DIN 1835-E



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | I  | d <sub>1</sub> |          |          |
|-------------------------|-----------|----|-----|----|----------------|----------|----------|
| 800001612               | 30        | 16 | 43  | 17 | 32             | U-0620/0 | S-2117/0 |
| 800001613               | 30        | 22 | 43  | 19 | 40             | U-0621/0 | S-2121/0 |
| 800001614               | 30        | 27 | 43  | 21 | 48             | U-0622/0 | S-2111/0 |
| 800001615               | 30        | 32 | 45  | 24 | 58             | U-0623/0 | S-2114/0 |
| 800001616               | 40        | 16 | 52  | 17 | 32             | U-0620/0 | S-2117/0 |
| 800001617               | 40        | 16 | 120 | 17 | 32             | U-0620/0 | S-2117/0 |
| 800001618               | 40        | 22 | 52  | 19 | 40             | U-0621/0 | S-2121/0 |
| 800001619               | 40        | 22 | 120 | 19 | 40             | U-0621/0 | S-2121/0 |
| 800001620               | 40        | 27 | 52  | 21 | 48             | U-0622/0 | S-2111/0 |
| 800001621               | 40        | 27 | 120 | 21 | 48             | U-0622/0 | S-2111/0 |
| 800001622               | 40        | 32 | 52  | 24 | 58             | U-0623/0 | S-2114/0 |
| 800001623               | 40        | 32 | 120 | 24 | 58             | U-0623/0 | S-2114/0 |
| 800001624               | 40        | 40 | 60  | 27 | 70             | U-0624/0 | S-2124/0 |
| 800001625               | 50        | 16 | 65  | 17 | 32             | U-0620/0 | S-2117/0 |
| 800001626               | 50        | 16 | 110 | 17 | 32             | U-0620/0 | S-2117/0 |
| 800001627               | 50        | 22 | 65  | 19 | 40             | U-0621/0 | S-2121/0 |
| 800001628               | 50        | 22 | 110 | 19 | 40             | U-0621/0 | S-2121/0 |
| 800001629               | 50        | 27 | 65  | 21 | 48             | U-0622/0 | S-2111/0 |
| 800001630               | 50        | 27 | 110 | 21 | 48             | U-0622/0 | S-2111/0 |
| 800001631               | 50        | 32 | 65  | 24 | 58             | U-0623/0 | S-2114/0 |
| 800001632               | 50        | 32 | 110 | 24 | 58             | U-0623/0 | S-2114/0 |
| 800001633               | 50        | 40 | 78  | 27 | 70             | U-0624/0 | S-2124/0 |
| 800001634               | 50        | 40 | 110 | 27 | 70             | U-0624/0 | S-2124/0 |
| 800001635               | 50        | 50 | 78  | 30 | 90             | U-0625/0 | U-5974/0 |

## 7388

- Messerkopfaufnahme zur Aufnahme von Fräsern nach DIN 138
- Shell mill holders

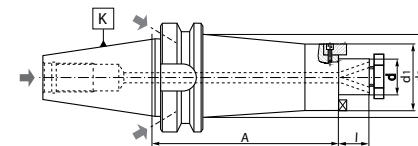


| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | I  | d <sub>1</sub> | d <sub>2</sub> |          |          |
|-------------------------|-----------|----|-----|----|----------------|----------------|----------|----------|
| 800001636               | 40        | 16 | 45  | 17 | 38             | -              | U-0620/0 | W-1945/0 |
| 800001637               | 40        | 16 | 100 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001638               | 40        | 16 | 130 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001639               | 40        | 16 | 160 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001640               | 40        | 22 | 45  | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001641               | 40        | 22 | 100 | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001642               | 40        | 22 | 130 | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001643               | 40        | 22 | 160 | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001644               | 40        | 27 | 50  | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001645               | 40        | 27 | 100 | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001646               | 40        | 27 | 130 | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001647               | 40        | 27 | 160 | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001648               | 40        | 32 | 55  | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001649               | 40        | 32 | 100 | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001650               | 40        | 32 | 130 | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001651               | 40        | 32 | 160 | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001652               | 40        | 40 | 60  | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001653               | 40        | 40 | 100 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001654               | 40        | 40 | 130 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001655               | 40        | 40 | 160 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001656               | 50        | 16 | 55  | 17 | 38             | -              | U-0620/0 | W-1945/0 |
| 800001657               | 50        | 16 | 100 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | I  | d <sub>1</sub> | d <sub>2</sub> |          |          |
|-------------------------|-----------|----|-----|----|----------------|----------------|----------|----------|
| 800001658               | 50        | 16 | 130 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001659               | 50        | 16 | 160 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001660               | 50        | 16 | 200 | 17 | 38             | 50             | U-0620/0 | W-1945/0 |
| 800001661               | 50        | 22 | 55  | 19 | 48             | -              | U-0621/0 | W-1946/0 |
| 800001662               | 50        | 22 | 100 | 19 | 48             | 62             | U-0621/0 | W-1946/0 |
| 800001663               | 50        | 22 | 130 | 19 | 48             | 62             | U-0621/0 | W-1946/0 |
| 800001664               | 50        | 22 | 160 | 19 | 48             | 62             | U-0621/0 | W-1946/0 |
| 800001665               | 50        | 22 | 200 | 19 | 58             | 62             | U-0621/0 | W-1947/0 |
| 800001666               | 50        | 27 | 60  | 21 | 58             | -              | U-0622/0 | W-1947/0 |
| 800001667               | 50        | 27 | 100 | 21 | 58             | 76             | U-0622/0 | W-1947/0 |
| 800001668               | 50        | 27 | 130 | 21 | 58             | 76             | U-0622/0 | W-1947/0 |
| 800001669               | 50        | 27 | 160 | 21 | 58             | 76             | U-0622/0 | W-1947/0 |
| 800001670               | 50        | 27 | 200 | 21 | 58             | 76             | U-0622/0 | W-1947/0 |
| 800001671               | 50        | 32 | 65  | 24 | 66             | -              | U-0623/0 | W-1948/0 |
| 800001672               | 50        | 32 | 100 | 24 | 66             | 80             | U-0623/0 | W-1948/0 |
| 800001673               | 50        | 32 | 130 | 24 | 66             | 80             | U-0623/0 | W-1948/0 |
| 800001674               | 50        | 32 | 160 | 24 | 66             | 80             | U-0623/0 | W-1948/0 |
| 800001675               | 50        | 32 | 200 | 24 | 66             | 80             | U-0623/0 | W-1948/0 |
| 800001676               | 50        | 40 | 70  | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001677               | 50        | 40 | 100 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001678               | 50        | 40 | 130 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001679               | 50        | 40 | 160 | 27 | 80             | -              | U-0624/0 | W-1949/0 |

## 7388 AD+B

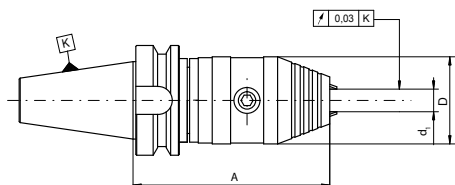
- Messerkopfaufnahme zur Aufnahme von Fräsern nach DIN 138
- Shell mill holders



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | I  | d <sub>1</sub> | d <sub>2</sub> |          |          |
|-------------------------|-----------|----|-----|----|----------------|----------------|----------|----------|
| 800001680               | 50        | 40 | 200 | 27 | 80             | -              | U-0624/0 | W-1949/0 |
| 800001681               | 50        | 50 | 70  | 30 | 90             | -              | U-0625/0 | U-5974/0 |
| 800001682               | 50        | 50 | 100 | 30 | 90             | -              | U-0625/0 | U-5974/0 |
| 800001683               | 50        | 50 | 130 | 30 | 90             | -              | U-0625/0 | U-5974/0 |
| 800001684               | 50        | 50 | 160 | 30 | 90             | -              | U-0625/0 | U-5974/0 |
| 800001685               | 50        | 50 | 200 | 30 | 90             | -              | U-0625/0 | U-5974/0 |

## 7661

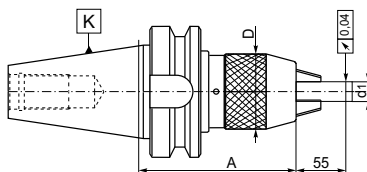
- Bohrfutter für Rechts- und Linkslauf
- Drill chucks for clockwise and counter clockwise rotations



| Artikel Nr.<br>Code No. | K<br>7:24 | d <sub>1</sub> | Spannkraft<br>Clamping force | A   | D  |
|-------------------------|-----------|----------------|------------------------------|-----|----|
| 800006589               | 40        | 1-13           | 40Nm                         | 113 | 50 |
| 800006590               | 40        | 3-16           | 45Nm                         | 113 | 50 |
| 800006591               | 50        | 1-13           | 40Nm                         | 124 | 50 |
| 800006592               | 50        | 3-16           | 45Nm                         | 124 | 50 |

## 7656

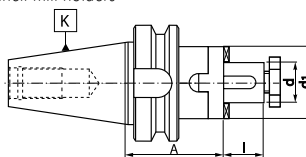
- Schnellspann-Bohrfutter mit SK-Aufnahme
- Keyless drill chucks



| Artikel Nr.<br>Code No. | K<br>7:24 | d <sub>1</sub> | A   | D  |
|-------------------------|-----------|----------------|-----|----|
| 800002394               | 40        | 1-13           | 95  | 50 |
| 800002395               | 40        | 3-16           | 100 | 57 |
| 800002396               | 50        | 1-13           | 105 | 50 |
| 800002397               | 50        | 3-16           | 110 | 57 |

## 7361

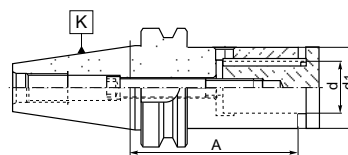
- Kombi-Aufsteckfräsdorn zur Aufnahme von Fräsen mit Längs- und Quernut nach DIN 138
- Combination shell mill holders



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A  | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub>             |
|-------------------------|-----------|----|----|----------------|----------------|----------------------------|
| 800001495               | 40        | 16 | 55 | 17             | 32             | U-0620/0 U-1364/0 U-1355/0 |
| 800001496               | 40        | 22 | 55 | 19             | 40             | U-0621/0 U-1365/0 U-1356/0 |
| 800001497               | 40        | 27 | 55 | 21             | 48             | U-0622/0 U-1366/0 U-1357/0 |
| 800001498               | 40        | 32 | 60 | 24             | 58             | U-0623/0 U-1367/0 U-1358/0 |
| 800001499               | 40        | 40 | 60 | 27             | 70             | U-0624/0 U-1368/0 U-1359/0 |
| 800001500               | 50        | 16 | 70 | 17             | 32             | U-0620/0 U-1364/0 U-1355/0 |
| 800001501               | 50        | 22 | 70 | 19             | 40             | U-0621/0 U-1365/0 U-1356/0 |
| 800001502               | 50        | 27 | 70 | 21             | 48             | U-0622/0 U-1366/0 U-1357/0 |
| 800001503               | 50        | 32 | 70 | 24             | 58             | U-0623/0 U-1367/0 U-1358/0 |
| 800001504               | 50        | 40 | 70 | 27             | 70             | U-0624/0 U-1368/0 U-1359/0 |
| 800001505               | 50        | 50 | 70 | 30             | 90             | U-0625/0 U-1369/0 U-1360/0 |

## 7372

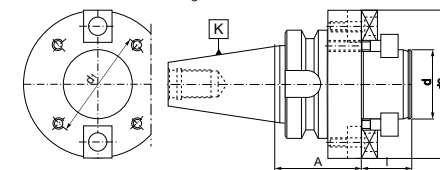
- Sägeblattaufnahme
- Milling arbor for disc milling cutters



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | A   | d <sub>2</sub> | d <sub>3</sub>    |
|-------------------------|-----------|----|----------------|-----|----------------|-------------------|
| 800001580               | 40        | 16 | 29             | 95  | U-6520/0       | U-6510/0 U-6526/0 |
| 800001581               | 40        | 16 | 29             | 125 | U-6520/0       | U-6511/0 U-6527/0 |
| 800001582               | 40        | 22 | 36             | 95  | U-6523/0       | U-6512/0 U-6528/0 |
| 800001583               | 40        | 22 | 36             | 125 | U-6523/0       | U-6513/0 U-6529/0 |
| 800001584               | 40        | 27 | 42             | 95  | U-6523/0       | U-6514/0 U-6530/0 |
| 800001585               | 40        | 27 | 42             | 125 | U-6523/0       | U-6515/0 U-6531/0 |
| 800001586               | 40        | 32 | 50             | 95  | U-6523/0       | U-6516/0 U-6532/0 |
| 800001587               | 40        | 32 | 50             | 125 | U-6523/0       | U-6517/0 U-6533/0 |
| 800001588               | 50        | 22 | 36             | 100 | U-6524/0       | U-6512/0 U-6528/0 |
| 800001589               | 50        | 22 | 36             | 125 | U-6524/0       | U-6513/0 U-6529/0 |
| 800001590               | 50        | 27 | 42             | 100 | U-6524/0       | U-6514/0 U-6530/0 |
| 800001591               | 50        | 27 | 42             | 125 | U-6524/0       | U-6515/0 U-6531/0 |
| 800001592               | 50        | 32 | 50             | 100 | U-6524/0       | U-6516/0 U-6532/0 |
| 800001593               | 50        | 32 | 50             | 125 | U-6524/0       | U-6517/0 U-6533/0 |
| 800001594               | 50        | 40 | 58             | 100 | U-6524/0       | U-6518/0 U-6534/0 |
| 800001595               | 50        | 40 | 58             | 125 | U-6524/0       | U-6519/0 U-6535/0 |

## 2826

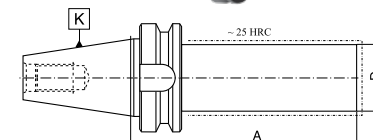
- Werkzeugaufnahme für Messerkopf
- Face mill holder for milling cutters



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | d <sub>2</sub> | A  | L  | d <sub>3</sub> | d <sub>4</sub> |
|-------------------------|-----------|----|----------------|----------------|----|----|----------------|----------------|
| 800000596               | 40        | 40 | 66,7           | 89             | 60 | 30 | U-6064/0       | U-1414/0       |
| 800000597               | 40        | 60 | 101,6          | 129            | 60 | 40 | U-6066/0       | U-2042/0       |
| 800000598               | 50        | 40 | 66,7           | 89             | 70 | 30 | U-6064/0       | U-1414/0       |
| 800000599               | 50        | 60 | 101,6          | 129            | 80 | 40 | U-6066/0       | U-2042/0       |

## 2192

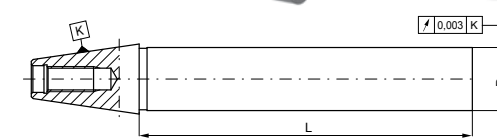
- Bohrstangenrohling
- Machinable blank adapters



| Artikel Nr.<br>Code No. | K<br>7:24 | D  | A   |
|-------------------------|-----------|----|-----|
| 800000579               | 40        | 40 | 280 |
| 800000582               | 40        | 63 | 280 |
| 800000584               | 50        | 50 | 330 |
| 800000585               | 50        | 80 | 330 |

## 2854

- Prüfdorn
- Control Arbor



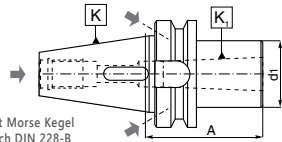
| Artikel Nr.<br>Code No. | K<br>7:24 | D  | L   |
|-------------------------|-----------|----|-----|
| 800006694               | 40        | 40 | 300 |
| 800006695               | 50        | 50 | 300 |





## 1661 AD+B

- Adapter für Werkzeuge mit MK-Schaft
- Combination Morse taper adapters for tools with drawbar thread or tang



\* nur für Werkzeuge mit Morse Kegel und Austreiblappen nach DIN 228-B

\* only for tools with Morse taper and tang DIN 228-B shank

| Artikel Nr. | K    | K <sub>1</sub> MK | A   | d <sub>1</sub> |
|-------------|------|-------------------|-----|----------------|
| Code No.    | 7:24 | K <sub>1</sub> MT |     |                |
| 800000147   | 40   | 2                 | 50  | 32             |
| 800000148   | 40   | 3*                | 70  | 40             |
| 800000149   | 40   | 4*                | 95  | 48             |
| 800000150   | 50   | 2                 | 60  | 32             |
| 800000151   | 50   | 3                 | 65  | 40             |
| 800000152   | 50   | 4                 | 95  | 48             |
| 800000153   | 50   | 5*                | 120 | 63             |



## 1694 AD+B

- Reduzierhülse für Werkzeuge mit MK-Schaft und Anzugsgewinde DIN 228-A
- Morse taper adapters for tools with drawbar thread

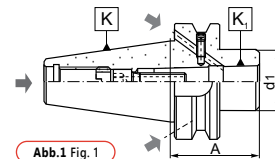


Abb. 1 Fig. 1

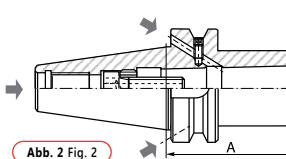


Abb. 2 Fig. 2

| Artikel Nr. | K    | K <sub>1</sub> MK | A   | d <sub>1</sub> | Abb. |
|-------------|------|-------------------|-----|----------------|------|
| Code No.    | 7:24 | K <sub>1</sub> MT |     |                | Fig. |
| 800000259   | 40   | 2                 | 50  | 32             | 1    |
| 800000260   | 40   | 3                 | 70  | 40             | 2    |
| 800000261   | 40   | 4                 | 95  | 48             | 2    |
| 800000262   | 50   | 2                 | 60  | 32             | 1    |
| 800000263   | 50   | 3                 | 65  | 40             | 1    |
| 800000264   | 50   | 4                 | 95  | 48             | 1    |
| 800000265   | 50   | 5                 | 120 | 63             | 2    |



## 1661

- Adapter für Werkzeuge mit MK-Schaft
- Combination Morse taper adapters for tools with drawbar thread or tang

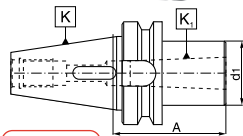


Abb. 1 Fig. 1

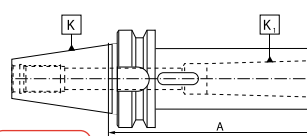


Abb. 2 Fig. 2

\* nur für Werkzeuge mit Morse Kegel und Austreiblappen nach DIN 228-B

\* only for tools with Morse taper and tang DIN 228-B shank

| Artikel Nr. | K    | K <sub>1</sub> MK | A   | d <sub>1</sub> | Abb. |
|-------------|------|-------------------|-----|----------------|------|
| Code No.    | 7:24 | K <sub>1</sub> MT |     |                | Fig. |
| 800000126   | 30   | 1                 | 50  | 25             | 1    |
| 800000127   | 30   | 2*                | 60  | 32             | 1    |
| 800000128   | 30   | 3*                | 79  | 40             | 1    |
| 800000129   | 40   | 1                 | 50  | 25             | 1    |
| 800000131   | 40   | 2                 | 50  | 32             | 1    |
| 800000133   | 40   | 3*                | 70  | 40             | 1    |
| 800000135   | 40   | 4*                | 95  | 48             | 1    |
| 800000130   | 40   | 1                 | 120 | 25             | 2    |
| 800000132   | 40   | 2                 | 120 | 32             | 2    |
| 800000134   | 40   | 3*                | 135 | 40             | 2    |
| 800000136   | 40   | 4*                | 165 | 48             | 2    |
| 800000137   | 50   | 1                 | 45  | 25             | 1    |
| 800000139   | 50   | 2                 | 60  | 32             | 1    |
| 800000141   | 50   | 3                 | 65  | 40             | 1    |
| 800000143   | 50   | 4                 | 95  | 48             | 1    |
| 800000145   | 50   | 5*                | 105 | 63             | 1    |
| 800000138   | 50   | 1                 | 120 | 25             | 2    |
| 800000140   | 50   | 2                 | 135 | 32             | 2    |
| 800000142   | 50   | 3                 | 155 | 40             | 2    |
| 800000144   | 50   | 4                 | 180 | 48             | 2    |
| 800000146   | 50   | 5*                | 215 | 63             | 2    |



## 1694

- Reduzierhülse für Werkzeuge mit MK-Schaft und Anzugsgewinde DIN 228-A
- Morse taper adapters for tools with drawbar thread

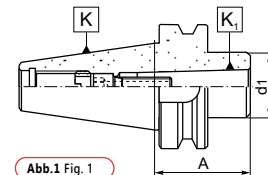


Abb. 1 Fig. 1

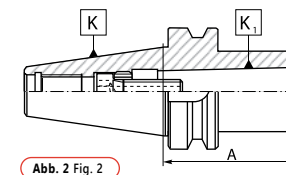


Abb. 2 Fig. 2

| Artikel Nr. | K    | K <sub>1</sub> MK | A   | d <sub>1</sub> | Abb. |
|-------------|------|-------------------|-----|----------------|------|
| Code No.    | 7:24 | K <sub>1</sub> MT |     |                | Fig. |
| 800000247   | 30   | 1                 | 50  | 25             | 1    |
| 800000248   | 30   | 2                 | 62  | 32             | 2    |
| 800000249   | 30   | 3                 | 82  | 40             | 2    |
| 800000250   | 40   | 1                 | 50  | 25             | 1    |
| 800000251   | 40   | 2                 | 50  | 32             | 1    |
| 800000252   | 40   | 3                 | 70  | 40             | 2    |
| 800000253   | 40   | 4                 | 95  | 48             | 2    |
| 800000254   | 50   | 1                 | 45  | 25             | 1    |
| 800000255   | 50   | 2                 | 60  | 32             | 1    |
| 800000256   | 50   | 3                 | 65  | 40             | 1    |
| 800000257   | 50   | 4                 | 90  | 48             | 1    |
| 800000258   | 50   | 5                 | 120 | 63             | 2    |



## 1663

- Reduzierhülse für Werkzeuge mit MK-Schaft und Anzugsgewinde DIN 228-A
- Morse taper adapters for tools with drawbar thread

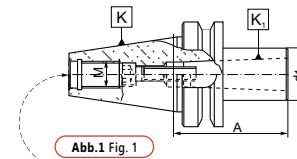


Abb. 1 Fig. 1

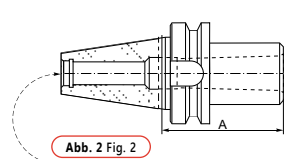


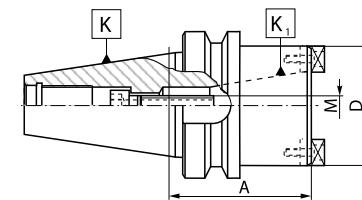
Abb. 2 Fig. 2

| Artikel Nr. | K    | K <sub>1</sub> MK | A  | d <sub>1</sub> | M   | Abb. |
|-------------|------|-------------------|----|----------------|-----|------|
| Code No.    | 7:24 | K <sub>1</sub> MT |    |                |     | Fig. |
| 800000154   | 30   | 1                 | 45 | 25             | M12 | 1    |
| 800000155   | 30   | 2                 | 60 | 32             | —   | 2    |
| 800000156   | 40   | 1                 | 45 | 25             | M16 | 1    |
| 800000157   | 40   | 2                 | 60 | 32             | M16 | 1    |
| 800000158   | 40   | 3                 | 75 | 40             | —   | 2    |
| 800000159   | 40   | 4                 | 85 | 48             | —   | 2    |
| 800000160   | 50   | 1                 | 45 | 25             | M24 | 1    |
| 800000161   | 50   | 2                 | 45 | 32             | M24 | 1    |
| 800000162   | 50   | 3                 | 60 | 40             | M24 | 1    |
| 800000163   | 50   | 4                 | 75 | 48             | M24 | 1    |
| 800000164   | 50   | 5                 | 75 | 63             | —   | 2    |



## 1660

- Reduzieraufnahme (von SK50:SK40)
- Reduction adapters for 7:24 tapers

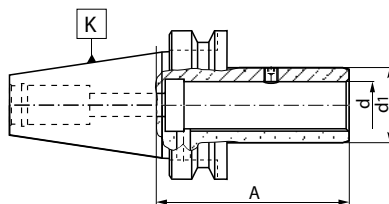


| Artikel Nr. | K    | K <sub>1</sub> 7:24 | A  | D  | M   |
|-------------|------|---------------------|----|----|-----|
| Code No.    | 7:24 |                     |    |    |     |
| 800000125   | 50   | 40                  | 80 | 88 | M16 |



## 1613 AD

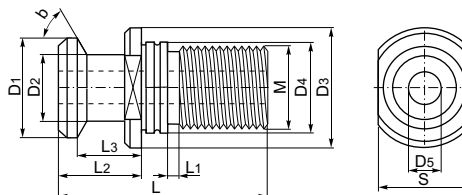
- Werkzeugaufnahme für Werkzeuge mit Zylinderschaft DIN 6327
- DIN 6327 adjustable adapter holders



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | A   |          |
|-------------------------|-----------|----|----------------|-----|----------|
| 800000075               | 40        | 16 | 25             | 75  | U-1997/0 |
| 800000076               | 40        | 20 | 32             | 80  | U-1997/0 |
| 800000077               | 40        | 28 | 40             | 100 | U-7381/0 |
| 800000078               | 40        | 36 | 50             | 115 | U-7381/0 |
| 800000079               | 50        | 16 | 25             | 85  | U-1997/0 |
| 800000080               | 50        | 20 | 32             | 85  | U-1997/0 |
| 800000081               | 50        | 28 | 40             | 100 | U-7381/0 |
| 800000082               | 50        | 36 | 50             | 100 | U-7381/0 |
| 800000083               | 50        | 48 | 67             | 105 | U-7382/0 |

## 9883 A

- Anzugsbolzen nach MAS 403-BT
- Pull studs with through hole (MAS 403-BT)

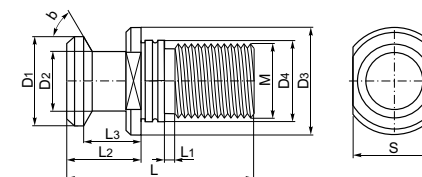
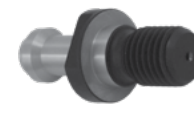


| Artikel Nr.<br>Code No. | W* | L  | b   | M   | L1 | L2 | L3 | D1 | D2 | D3 | D4 | D5 | S  |
|-------------------------|----|----|-----|-----|----|----|----|----|----|----|----|----|----|
| 800003007               | 40 | 60 | 45° | M16 | 4  | 35 | 28 | 15 | 10 | 23 | 17 | 4  | 19 |
| 800003008               | 40 | 60 | 60° | M16 | 4  | 35 | 28 | 15 | 10 | 23 | 17 | 4  | 19 |
| 800003009               | 40 | 60 | 90° | M16 | 4  | 35 | 28 | 15 | 10 | 23 | 17 | 4  | 19 |
| 800003010               | 50 | 85 | 45° | M24 | 8  | 45 | 35 | 23 | 17 | 38 | 25 | 6  | 30 |
| 800003011               | 50 | 85 | 60° | M24 | 8  | 45 | 35 | 23 | 17 | 38 | 25 | 6  | 30 |
| 800003012               | 50 | 85 | 90° | M24 | 8  | 45 | 35 | 23 | 17 | 38 | 25 | 6  | 30 |

\* Grösse • Size

## 9883 B

- Anzugsbolzen nach MAS 403-BT
- Pull studs without through hole (MAS 403-BT)

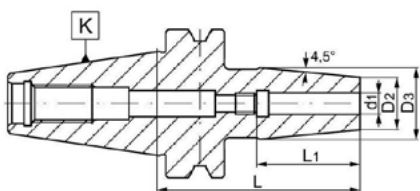


| Artikel Nr.<br>Code No. | W* | L   | b   | M   | L1 | L2 | L3 | D1 | D2 | D3   | D4   | S  |
|-------------------------|----|-----|-----|-----|----|----|----|----|----|------|------|----|
| 800003508               | 30 | 43  | 45° | M12 | 2  | 23 | 18 | 11 | 7  | 16,5 | 12,5 | 13 |
| 800003509               | 30 | 43  | 60° | M12 | 2  | 23 | 18 | 11 | 7  | 16,5 | 12,5 | 13 |
| 800003013               | 40 | 60  | 45° | M16 | 4  | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 800003014               | 40 | 60  | 60° | M16 | 4  | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 800003015               | 40 | 60  | 90° | M16 | 4  | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 800003016               | 40 | 120 | 45° | M12 | 64 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 800003017               | 40 | 120 | 60° | M12 | 64 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 800003018               | 40 | 120 | 90° | M12 | 64 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 800003019               | 40 | 125 | 45° | M16 | 69 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 800003020               | 40 | 125 | 60° | M16 | 69 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 800003021               | 40 | 125 | 90° | M16 | 69 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 800003022               | 50 | 85  | 45° | M24 | 8  | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 800003023               | 50 | 85  | 60° | M24 | 8  | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 800003024               | 50 | 85  | 90° | M24 | 8  | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 800003025               | 50 | 125 | 45° | M24 | 48 | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 800003026               | 50 | 125 | 60° | M24 | 48 | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 800003027               | 50 | 125 | 90° | M24 | 48 | 45 | 35 | 23 | 17 | 38   | 25   | 30 |

\* Grösse • Size

## 7632

- Schrumpfaufnahmen
- Shrink fit holders



\* Geeignet für HSS- und Vollhartmetall-Werkzeuge mit Zylinderschaft (h6)  
\* Suitable for HSS and solid carbide tools with cylindrical shank (h6 tolerance)

| Artikel Nr.<br>Code No. | K<br>7:24 | d <sub>1</sub> | L   | L <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> |
|-------------------------|-----------|----------------|-----|----------------|----------------|----------------|
| 800006402               | 40        | 3              | 80  | 36             | 14             | 22             |
| 800006403               | 40        | 3              | 120 | 36             | 14             | 22             |
| 800006404               | 40        | 3              | 160 | 36             | 14             | 22             |
| 800006405               | 40        | 4              | 80  | 36             | 14             | 22             |
| 800006406               | 40        | 4              | 120 | 36             | 14             | 22             |
| 800006407               | 40        | 4              | 160 | 36             | 14             | 22             |

| Artikel Nr.<br>Code No. | K<br>7:24 | d <sub>1</sub> | L   | L <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> |
|-------------------------|-----------|----------------|-----|----------------|----------------|----------------|
| 800006408               | 40        | 5              | 80  | 36             | 16             | 22             |
| 800006409               | 40        | 5              | 120 | 36             | 16             | 22             |
| 800006410               | 40        | 5              | 160 | 36             | 16             | 22             |
| 800006411               | 40        | 6              | 90  | 36             | 21             | 27             |
| 800006412               | 40        | 6              | 120 | 36             | 21             | 27             |
| 800006413               | 40        | 6              | 160 | 36             | 21             | 27             |
| 800006414               | 40        | 8              | 90  | 36             | 21             | 27             |
| 800006415               | 40        | 8              | 120 | 36             | 21             | 27             |
| 800006416               | 40        | 8              | 160 | 36             | 21             | 27             |
| 800006417               | 40        | 10             | 90  | 42             | 24             | 32             |
| 800006418               | 40        | 10             | 120 | 42             | 24             | 32             |
| 800006419               | 40        | 10             | 160 | 42             | 24             | 32             |
| 800006420               | 40        | 12             | 90  | 47             | 24             | 32             |
| 800006421               | 40        | 12             | 120 | 47             | 24             | 32             |
| 800006422               | 40        | 12             | 160 | 47             | 24             | 32             |
| 800006423               | 40        | 14             | 90  | 47             | 27             | 34             |
| 800006424               | 40        | 14             | 120 | 47             | 27             | 34             |
| 800006425               | 40        | 14             | 160 | 47             | 27             | 34             |
| 800006426               | 40        | 16             | 90  | 50             | 27             | 34             |
| 800006427               | 40        | 16             | 120 | 50             | 27             | 34             |

| Artikel Nr.<br>Code No. | K<br>7:24 | d <sub>1</sub> | L   | L <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> |
|-------------------------|-----------|----------------|-----|----------------|----------------|----------------|
| 800006428               | 40        | 16             | 160 | 50             | 27             | 34             |
| 800006429               | 40        | 18             | 90  | 50             | 33             | 42             |
| 800006430               | 40        | 18             | 120 | 50             | 33             | 42             |
| 800006431               | 40        | 18             | 160 | 50             | 33             | 42             |
| 800006432               | 40        | 20             | 90  | 52             | 33             | 42             |
| 800006433               | 40        | 20             | 120 | 52             | 33             | 42             |
| 800006434               | 40        | 20             | 160 | 52             | 33             | 42             |
| 800006435               | 40        | 25             | 100 | 58             | 44             | 53             |
| 800006436               | 40        | 25             | 120 | 58             | 44             | 53             |
| 800006437               | 40        | 25             | 160 | 58             | 44             | 53             |
| 800006438               | 40        | 32             | 100 | 58             | 44             | 53             |
| 800006439               | 50        | 6              | 100 | 36             | 21             | 27             |
| 800006440               | 50        | 8              | 100 | 36             | 21             | 27             |
| 800006441               | 50        | 10             | 100 | 42             | 24             | 32             |
| 800006442               | 50        | 12             | 100 | 47             | 24             | 32             |
| 800006443               | 50        | 14             | 100 | 47             | 27             | 34             |
| 800006444               | 50        | 16             | 100 | 50             | 27             | 34             |
| 800006445               | 50        | 18             | 100 | 50             | 33             | 42             |
| 800006446               | 50        | 20             | 100 | 52             | 33             | 42             |
| 800006447               | 50        | 25             | 110 | 58             | 44             | 53             |
| 800006448               | 50        | 32             | 110 | 58             | 44             | 53             |





### SCHRUMPFUTTER

Die Schrumpffutter können für alle Fräs-und Bohrarbeiten verwendet werden.

Durch gezielte Erwärmung vergrößert sich die Aufnahmebohrung und ermöglicht so das bequeme Einschieben des Werkzeuges. Während des Abkühlens schrumpft die Bohrung und spannt sich dabei um das Werkzeug. Dadurch wird eine exakte zentrische Spannung erzeugt, die sich durch eine reibschlüssige Kraftübertragung und hohe Rundlaufgenauigkeit auszeichnet.

### SHRINK FIT HOLDERS

The Shrink Fit holders can be applied for all milling and drilling operations.

The Shrink Fit holder increases the diameter of the shank under the influence of supplied heat allowing insertion of a tool. After cooling, the holder is shrinking, while clamping around the tool, which allows accurate clamping and provides a high level of tightness due to action of the centrifugal force.



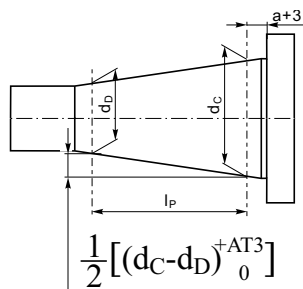
## DIN 2080

Standardmerkmale der Werkzeuge:

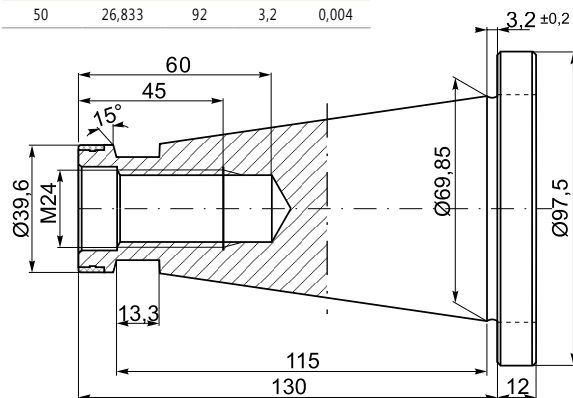
- Hergestellt aus Chrom Mangan Stahl
- Einsatzgehärtet auf eine Tiefe von 0,7mm
- Gehärtet und präzisionsgeschliffen
- Oberflächenhärte HRC 58±2
- Konuswinkel: Toleranz AT3

Standard features of the tools:

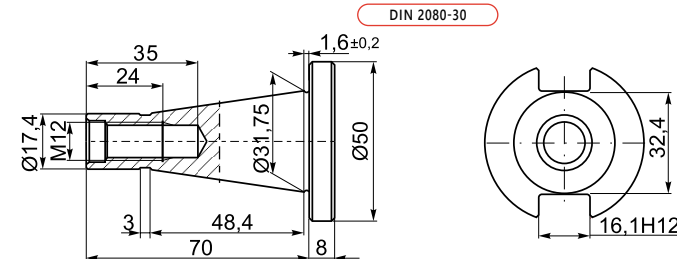
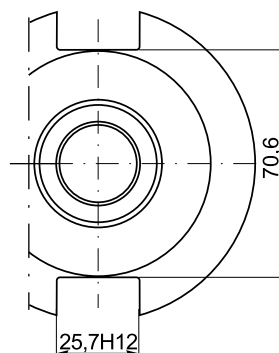
- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm
- Hardened and precision ground
- Surface hardness HRC 58±2
- Taper angle: tolerance AT3



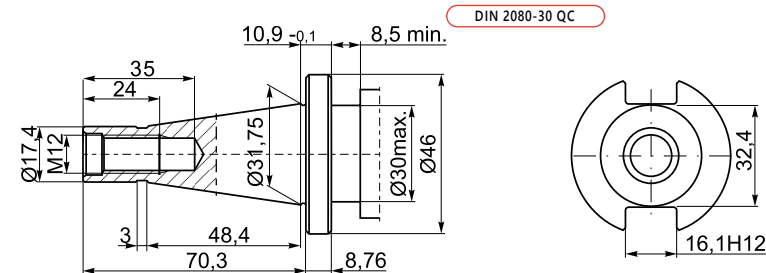
| K 7:24 | d <sub>c</sub> -d <sub>0</sub> | l <sub>p</sub> | a   | AT3   |
|--------|--------------------------------|----------------|-----|-------|
| 30     | 12,250                         | 42             | 1,6 | 0,002 |
| 40     | 17,208                         | 59             | 1,6 | 0,003 |
| 50     | 26,833                         | 92             | 3,2 | 0,004 |



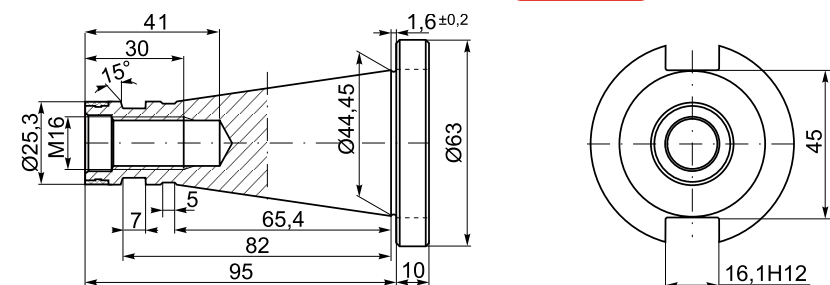
DIN 2080-50



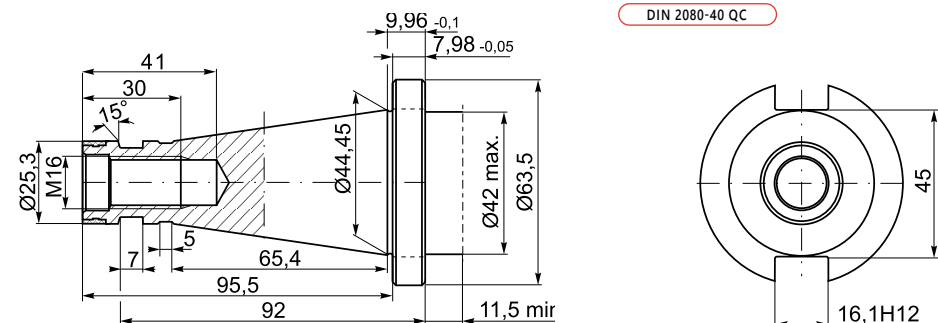
DIN 2080-30



DIN 2080-30 QC



DIN 2080-40



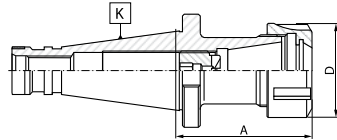
DIN 2080-40 QC





## 7616

- Werkzeugaufnahme für Werkzeuge mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)

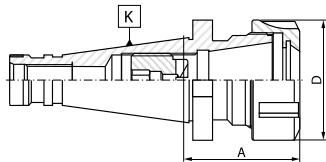


| Artikel Nr.<br>Code No. | K<br>7:24 | Spannzangen<br>Collet size | A   | Spannbereich<br>Clamping range | D  |         |              |
|-------------------------|-----------|----------------------------|-----|--------------------------------|----|---------|--------------|
| 800001754               | 30        | ER16                       | 50  | 2-10                           | 32 | 9833-16 | M10x11LH     |
| 800001755               | 30        | ER32                       | 50  | 2-20                           | 50 | 9833-32 | M18x1,5x19LH |
| 800001756               | 40        | ER25                       | 60  | 2-16                           | 42 | 9833-25 | M18x1,5x19LH |
| 800001757               | 40        | ER32                       | 60  | 2-20                           | 50 | 9833-32 | M22x1,5x24LH |
| 800001758               | 40        | ER32                       | 130 | 2-20                           | 50 | 9833-32 | M22x1,5x24LH |
| 800001759               | 40        | ER40                       | 60  | 2-26                           | 63 | 9833-40 | M28x1,5x30LH |
| 800001760               | 50        | ER32                       | 70  | 2-20                           | 50 | 9833-32 | M22x1,5x24LH |
| 800001761               | 50        | ER32                       | 130 | 2-20                           | 50 | 9833-32 | M22x1,5x24LH |
| 800001762               | 50        | ER40                       | 70  | 2-26                           | 63 | 9833-40 | M28x1,5x30LH |
| 800001763               | 50        | ER40                       | 130 | 2-26                           | 63 | 9833-40 | M28x1,5x30LH |



## 7616 QC

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499) - quick change version



| Artikel Nr.<br>Code No. | K<br>7:24 | Spannzangen<br>Collet size | A   | Spannbereich<br>Clamping range | D  |         |              |
|-------------------------|-----------|----------------------------|-----|--------------------------------|----|---------|--------------|
| 800003491               | 30        | ER16                       | 50  | 2-10                           | 32 | 9833-16 | M10x11LH     |
| 800003492               | 30        | ER32                       | 50  | 2-20                           | 50 | 9833-32 | M18x1,5x8LH  |
| 800003493               | 40        | ER16                       | 100 | 2-10                           | 32 | 9833-16 | M12x1,5x14LH |
| 800003494               | 40        | ER32                       | 60  | 2-20                           | 50 | 9833-32 | M22x1,5x24LH |
| 800003495               | 40        | ER32                       | 130 | 2-20                           | 50 | 9833-32 | M22x1,5x24LH |
| 800003496               | 40        | ER40                       | 60  | 2-26                           | 63 | 9833-40 | M28x1,5x30LH |

## 7616-KPL

## 7616-PL

## 7616-S PL

- ER-Spannzangenfutter - Komplet-Set oder Satz für Werkzeuge mit Zylinderschaft
- Collet chucks with ER collets (DIN 6499) - set or small set

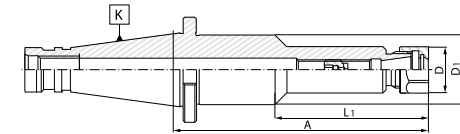


| Artikel Nr.<br>Code No.                            | K<br>7:24 | Spannzangen<br>Collet size | A   | Spannbereich<br>Clamping range | Teilung<br>Collets in set |
|----------------------------------------------------|-----------|----------------------------|-----|--------------------------------|---------------------------|
| <b>7616-KPL</b>                                    |           |                            |     |                                |                           |
| 800001768                                          | 30        | ER16                       | 50  | 2-10                           | 8                         |
| 800001769                                          | 30        | ER32                       | 50  | 2-20                           | 18                        |
| 800001770                                          | 40        | ER25                       | 60  | 2-16                           | 14                        |
| 800001771                                          | 40        | ER32                       | 60  | 2-20                           | 18                        |
| 800001772                                          | 40        | ER32                       | 130 | 2-20                           | 18                        |
| 800001773                                          | 40        | ER40                       | 60  | 2-26                           | 24                        |
| 800001774                                          | 50        | ER32                       | 70  | 2-20                           | 18                        |
| 800001775                                          | 50        | ER32                       | 130 | 2-20                           | 18                        |
| 800001776                                          | 50        | ER40                       | 70  | 2-26                           | 24                        |
| <b>7616-PL</b>                                     |           |                            |     |                                |                           |
| 800001781                                          | 30        | ER32                       | 50  | 3-20                           | 8                         |
| Spannzangen • Collets Ø 4, 5, 6, 8, 10, 12, 16, 20 |           |                            |     |                                |                           |
| 800001782                                          | 40        | ER32                       | 60  | 3-20                           | 8                         |
| Spannzangen • Collets Ø 4, 5, 6, 8, 10, 12, 16, 20 |           |                            |     |                                |                           |
| 800001783                                          | 50        | ER32                       | 70  | 3-20                           | 8                         |
| Spannzangen • Collets Ø 4, 5, 6, 8, 10, 12, 16, 20 |           |                            |     |                                |                           |
| <b>7616-S PL</b>                                   |           |                            |     |                                |                           |
| 800001777                                          | 40        | ER16                       | 100 | 2-10                           | 8                         |
| 800001778                                          | 40        | ER16                       | 150 | 2-10                           | 8                         |
| 800001779                                          | 50        | ER16                       | 100 | 2-10                           | 8                         |
| 800001780                                          | 50        | ER16                       | 150 | 2-10                           | 8                         |

KPL - Komplet-Set mit Freifläche für Werkzeughalter • set with empty space for toolholder  
PL - Satz mit Freifläche für Werkzeughalter • small set with empty space for toolholder  
S PL - Satz mit Freifläche für schmalen Werkzeughalter • small set with empty space for slim design toolholder

## 7616-S

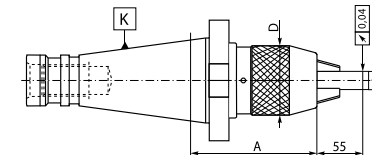
- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499) - slim design



| Artikel Nr.<br>Code No. | K<br>7:24 | Spannzangen<br>Collet size | A   | Spannbereich<br>Clamping range | L <sub>1</sub> | D <sub>1</sub> |          |              |
|-------------------------|-----------|----------------------------|-----|--------------------------------|----------------|----------------|----------|--------------|
| 800001764               | 40        | ER16                       | 100 | 2-10                           | - 28           | -              | 9833-16D | M12x1,5x14LH |
| 800001765               | 40        | ER16                       | 150 | 2-10                           | 85 28          | 40             | 9833-16D | M12x1,5x14LH |
| 800001766               | 50        | ER16                       | 100 | 2-10                           | - 28           | -              | 9833-16D | M12x1,5x14LH |
| 800001767               | 50        | ER16                       | 150 | 2-10                           | 85 28          | 40             | 9833-16D | M12x1,5x14LH |

## 7657

- Schnellspann-Bohrfutter mit SK-Aufnahme
- Keyless drill chucks

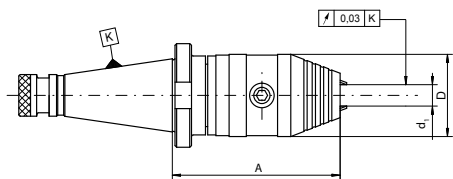


| Artikel Nr.<br>Code No. | K<br>7:24 | d <sub>1</sub> | A  | D  |
|-------------------------|-----------|----------------|----|----|
| 800002398               | 40        | 1-13           | 88 | 50 |
| 800002399               | 40        | 3-16           | 99 | 57 |
| 800002400               | 50        | 1-13           | 85 | 50 |
| 800002401               | 50        | 3-16           | 89 | 57 |



## 7662

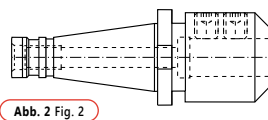
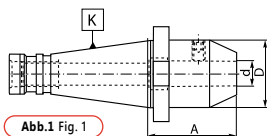
- Bohrfutter für Rechts- und Linkslauf
- Drill chucks for clockwise and counter clockwise rotations



| Artikel Nr.<br>Code No. | K<br>7:24 | d <sub>1</sub> | Spannkraft<br>Clamping force | A   | D  |
|-------------------------|-----------|----------------|------------------------------|-----|----|
| 800006593               | 40        | 1-13           | 40Nm                         | 102 | 50 |
| 800006594               | 40        | 3-16           | 45Nm                         | 102 | 50 |
| 800006595               | 50        | 1-13           | 40Nm                         | 99  | 50 |
| 800006596               | 50        | 3-16           | 45Nm                         | 99  | 50 |

## 7620 QC

- Weldon Flächenspannfutter zur Aufnahme von Werkzeugen mit Zylinderschaft und seitlicher Mitnehmerfläche nach DIN 1835-B - Schnellwechselsystem
- Weldon type end mill holders DIN 1835-B - quick change version



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A  | D  | Abb.<br>Fig. |                   |
|-------------------------|-----------|----|----|----|--------------|-------------------|
| 800001967               | 30        | 6  | 50 | 25 | 1            | U-4131/0          |
| 800001968               | 30        | 8  | 50 | 28 | 1            | U-4132/0          |
| 800001969               | 30        | 10 | 50 | 35 | 1            | U-4133/0          |
| 800001970               | 30        | 12 | 50 | 42 | 1            | U-4134/0          |
| 800001971               | 30        | 16 | 63 | 48 | 1            | U-4135/0          |
| 800001972               | 30        | 20 | 63 | 52 | 1            | U-4136/0          |
| 800001973               | 40        | 6  | 50 | 25 | 1            | U-4131/0          |
| 800001974               | 40        | 8  | 50 | 28 | 1            | U-4132/0          |
| 800001975               | 40        | 10 | 50 | 35 | 1            | U-4133/0          |
| 800001976               | 40        | 12 | 50 | 42 | 1            | U-4134/0          |
| 800001977               | 40        | 14 | 63 | 42 | 1            | U-4134/0          |
| 800001978               | 40        | 16 | 63 | 48 | 1            | U-4135/0          |
| 800001979               | 40        | 20 | 63 | 52 | 1            | U-4136/0          |
| 800001980               | 40        | 25 | 85 | 63 | 2            | U-4137/0 U-4137/0 |
| 800001981               | 40        | 32 | 90 | 72 | 2            | U-4138/0 U-4138/0 |

## 7620

- Weldon Flächenspannfutter zur Aufnahme von Werkzeugen mit Zylinderschaft und seitlicher Mitnehmerfläche nach DIN 1835-B
- Weldon type end mill holders DIN 1835-B



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | D  | Abb.<br>Fig. |                   |
|-------------------------|-----------|----|-----|----|--------------|-------------------|
| 800001910               | 30        | 6  | 40  | 25 | 1            | U-4131/0          |
| 800001911               | 30        | 8  | 40  | 28 | 1            | U-4132/0          |
| 800001912               | 30        | 10 | 40  | 35 | 1            | U-4133/0          |
| 800001913               | 30        | 12 | 40  | 42 | 1            | U-4134/0          |
| 800001914               | 30        | 16 | 50  | 48 | 1            | U-4135/0          |
| 800001915               | 30        | 20 | 63  | 52 | 1            | U-4136/0          |
| 800001916               | 30        | 25 | 68  | 63 | 2            | 2 x U-4137/0      |
| 800001917               | 40        | 6  | 25  | 25 | 3            | U-4131/0          |
| 800001918               | 40        | 6  | 50  | 25 | 1            | U-4131/0          |
| 800001919               | 40        | 8  | 25  | 28 | 3            | U-4132/0          |
| 800001920               | 40        | 8  | 50  | 28 | 1            | U-4132/0          |
| 800001921               | 40        | 10 | 27  | 35 | 3            | U-4133/0          |
| 800001922               | 40        | 10 | 50  | 35 | 1            | U-4133/0          |
| 800001923               | 40        | 12 | 29  | 42 | 3            | U-4134/0          |
| 800001924               | 40        | 12 | 50  | 42 | 1            | U-4134/0          |
| 800001925               | 40        | 14 | 30  | 44 | 3            | U-4134/0          |
| 800001926               | 40        | 14 | 50  | 44 | 1            | U-4134/0          |
| 800001927               | 40        | 16 | 31  | 44 | 3            | U-5887/0          |
| 800001928               | 40        | 16 | 63  | 48 | 1            | U-4135/0          |
| 800001929               | 40        | 18 | 63  | 50 | 1            | U-4135/0          |
| 800001930               | 40        | 20 | 35  | 52 | 3            | U-6756/0          |
| 800001931               | 40        | 20 | 63  | 52 | 1            | U-4136/0          |
| 800001932               | 40        | 25 | 60  | 65 | 4            | U-6756/0 U-4137/0 |
| 800001933               | 40        | 25 | 80  | 63 | 2            | 2 x U-4137/0      |
| 800001934               | 40        | 32 | 70  | 72 | 2            | 2 x U-4138/0      |
| 800001935               | 40        | 32 | 80  | 72 | 2            | 2 x U-4138/0      |
| 800001936               | 40        | 32 | 100 | 72 | 2            | 2 x U-4138/0      |
| 800001937               | 50        | 6  | 63  | 25 | 1            | U-4131/0          |
| 800001938               | 50        | 6  | 130 | 25 | 1            | U-4131/0          |
| 800001939               | 50        | 8  | 63  | 28 | 1            | U-4132/0          |
| 800001940               | 50        | 8  | 130 | 28 | 1            | U-4132/0          |
| 800001941               | 50        | 10 | 63  | 35 | 1            | U-4133/0          |
| 800001942               | 50        | 10 | 130 | 35 | 1            | U-4133/0          |
| 800001943               | 50        | 12 | 63  | 42 | 1            | U-4134/0          |
| 800001944               | 50        | 12 | 130 | 42 | 1            | U-4134/0          |
| 800001945               | 50        | 14 | 63  | 44 | 1            | U-4135/0          |
| 800001946               | 50        | 16 | 63  | 48 | 1            | U-4135/0          |
| 800001947               | 50        | 16 | 130 | 48 | 1            | U-4135/0          |
| 800001948               | 50        | 16 | 160 | 48 | 1            | U-4135/0          |
| 800001949               | 50        | 16 | 200 | 48 | 1            | U-4135/0          |
| 800001950               | 50        | 18 | 63  | 50 | 1            | U-4135/0          |
| 800001951               | 50        | 20 | 36  | 52 | 3            | U-4136/0          |
| 800001952               | 50        | 20 | 63  | 52 | 1            | U-4136/0          |
| 800001953               | 50        | 20 | 130 | 52 | 1            | U-4136/0          |
| 800001954               | 50        | 25 | 60  | 65 | 4            | 2 x U-4137/0      |
| 800001955               | 50        | 25 | 80  | 65 | 2            | 2 x U-4137/0      |
| 800001956               | 50        | 25 | 130 | 65 | 2            | 2 x U-4137/0      |
| 800001957               | 50        | 25 | 160 | 65 | 2            | 2 x U-4137/0      |
| 800001958               | 50        | 32 | 70  | 70 | 4            | 2 x U-4138/0      |
| 800001959               | 50        | 32 | 81  | 70 | 2            | 2 x U-4138/0      |
| 800001960               | 50        | 32 | 100 | 70 | 2            | 2 x U-4138/0      |
| 800001961               | 50        | 32 | 130 | 72 | 2            | 2 x U-4138/0      |
| 800001962               | 50        | 32 | 160 | 72 | 2            | 2 x U-4138/0      |
| 800001963               | 50        | 40 | 91  | 90 | 2            | 2 x U-4138/0      |
| 800001964               | 50        | 40 | 100 | 90 | 2            | 2 x U-4138/0      |
| 800001965               | 50        | 50 | 110 | 97 | 2            | 2 x U-4139/0      |
| 800001966               | 50        | 63 | 115 | 97 | 2            | 2 x U-4139/0      |

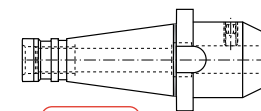


Abb. 1 Fig. 1

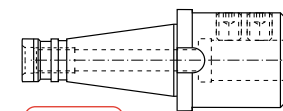


Abb. 2 Fig. 2

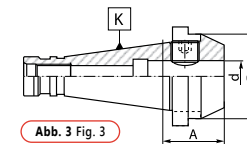


Abb. 3 Fig. 3

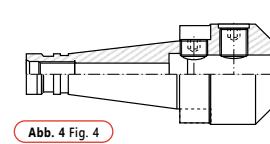


Abb. 4 Fig. 4

## 7627

- Whistle-Notch Aufnahme für Werkzeuge mit Zylinderschaft und geeigneter Spannfläche nach DIN 1835-E
- Whistle-notch type end mills DIN 1835-E

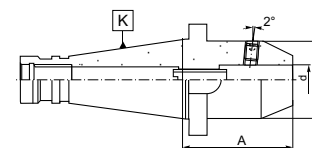


Abb. 1 Fig. 1

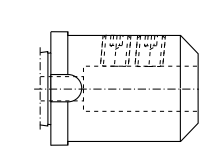


Abb. 2 Fig. 2

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | A  | Abb.<br>Fig. |              |          |
|-------------------------|-----------|----|----------------|----|--------------|--------------|----------|
| 800002327               | 40        | 6  | 25             | 50 | 1            | U-4131/0     | U-1599/0 |
| 800002328               | 40        | 8  | 28             | 50 | 1            | U-4132/0     | U-6317/0 |
| 800002329               | 40        | 10 | 35             | 50 | 1            | U-4133/0     | U-0293/0 |
| 800002330               | 40        | 12 | 42             | 50 | 1            | U-4134/0     | U-0757/0 |
| 800002331               | 40        | 14 | 44             | 50 | 1            | U-4134/0     | U-6318/0 |
| 800002332               | 40        | 16 | 48             | 63 | 1            | U-4135/0     | U-6318/0 |
| 800002333               | 40        | 18 | 50             | 63 | 1            | U-4136/0     | U-6793/0 |
| 800002334               | 40        | 20 | 52             | 63 | 1            | U-4136/0     | U-6793/0 |
| 800002335               | 40        | 25 | 65             | 80 | 2            | 2 x U-4137/0 | U-6794/0 |
| 800002336               | 40        | 32 | 72             | 80 | 2            | 2 x U-4138/0 | U-6794/0 |
| 800002337               | 50        | 6  | 25             | 63 | 1            | U-4131/0     | U-1599/0 |
| 800002338               | 50        | 8  | 28             | 63 | 1            | U-4132/0     | U-6317/0 |
| 800002339               | 50        | 10 | 35             | 63 | 1            | U-4133/0     | U-0293/0 |
| 800002340               | 50        | 12 | 42             | 63 | 1            | U-4134/0     | U-0757/0 |
| 800002341               | 50        | 14 | 44             | 63 | 1            | U-4135/0     | U-6318/0 |
| 800002342               | 50        | 16 | 48             | 63 | 1            | U-4135/0     | U-6318/0 |
| 800002343               | 50        | 18 | 50             | 63 | 1            | U-4136/0     | U-6793/0 |
| 800002344               | 50        | 20 | 52             | 63 | 1            | U-4136/0     | U-6793/0 |
| 800002345               | 50        | 25 | 65             | 80 | 2            | 2 x U-4137/0 | U-6794/0 |
| 800002346               | 50        | 32 | 72             | 80 | 2            | 2 x U-4138/0 | U-6794/0 |
| 800002347               | 50        | 40 | 90             | 90 | 2            | 2 x U-5870/0 | U-6794/0 |

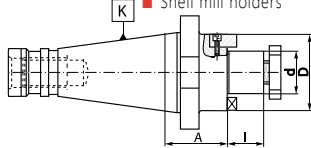






## 7311

- Messerkopfaufnahme zur Aufnahme von Fräsern nach DIN 138
- Shell mill holders

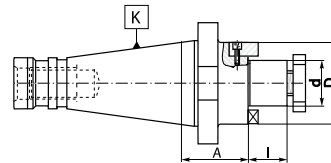


| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | I  | D  |          |          |
|-------------------------|-----------|----|-----|----|----|----------|----------|
| 800001385               | 30        | 16 | 35  | 17 | 32 | U-0620/0 | S-2117/0 |
| 800001386               | 30        | 22 | 35  | 19 | 40 | U-0621/0 | S-2121/0 |
| 800001387               | 30        | 27 | 35  | 21 | 48 | U-0622/0 | S-2111/0 |
| 800001388               | 30        | 32 | 35  | 24 | 58 | U-0623/0 | S-2114/0 |
| 800001389               | 40        | 16 | 37  | 17 | 32 | U-0620/0 | S-2117/0 |
| 800001390               | 40        | 16 | 90  | 17 | 32 | U-0620/0 | S-2117/0 |
| 800001391               | 40        | 22 | 37  | 19 | 40 | U-0621/0 | S-2121/0 |
| 800001392               | 40        | 22 | 90  | 19 | 40 | U-0621/0 | S-2121/0 |
| 800001393               | 40        | 27 | 37  | 21 | 48 | U-0622/0 | S-2111/0 |
| 800001394               | 40        | 27 | 90  | 21 | 48 | U-0622/0 | S-2111/0 |
| 800001395               | 40        | 32 | 37  | 24 | 58 | U-0623/0 | S-2114/0 |
| 800001396               | 40        | 32 | 90  | 24 | 58 | U-0623/0 | S-2114/0 |
| 800001397               | 40        | 40 | 37  | 27 | 70 | U-0624/0 | S-2124/0 |
| 800001398               | 40        | 40 | 90  | 27 | 70 | U-0624/0 | S-2124/0 |
| 800001399               | 50        | 22 | 40  | 19 | 40 | U-0621/0 | S-2121/0 |
| 800001400               | 50        | 22 | 100 | 19 | 40 | U-0621/0 | S-2121/0 |
| 800001401               | 50        | 27 | 40  | 21 | 48 | U-0622/0 | S-2111/0 |
| 800001402               | 50        | 27 | 100 | 21 | 48 | U-0622/0 | S-2111/0 |
| 800001403               | 50        | 32 | 40  | 24 | 58 | U-0623/0 | S-2114/0 |
| 800001404               | 50        | 32 | 100 | 24 | 58 | U-0623/0 | S-2114/0 |
| 800001405               | 50        | 40 | 40  | 27 | 70 | U-0624/0 | S-2124/0 |
| 800001406               | 50        | 40 | 100 | 27 | 70 | U-0624/0 | S-2124/0 |
| 800001407               | 50        | 50 | 40  | 30 | 90 | U-0625/0 | U-5974/0 |
| 800001408               | 50        | 50 | 100 | 30 | 90 | U-0625/0 | U-5974/0 |



## 7311 QC

- Messerkopfaufnahme zur Aufnahme von Fräsern nach DIN 138
- Schnellwechselsystem
- Shell mill holders
- quick change version

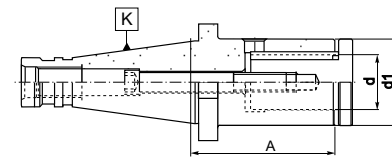


| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A  | I  | D  |          |          |
|-------------------------|-----------|----|----|----|----|----------|----------|
| 800001409               | 30        | 16 | 45 | 17 | 32 | U-0620/0 | S-2117/0 |
| 800001410               | 30        | 22 | 45 | 19 | 40 | U-0621/0 | S-2121/0 |
| 800001411               | 30        | 27 | 45 | 21 | 48 | U-0622/0 | S-2111/0 |
| 800001412               | 30        | 32 | 45 | 24 | 58 | U-0623/0 | S-2114/0 |
| 800001413               | 40        | 16 | 50 | 17 | 32 | U-0620/0 | S-2117/0 |
| 800001414               | 40        | 16 | 90 | 17 | 32 | U-0620/0 | S-2117/0 |
| 800001415               | 40        | 22 | 50 | 19 | 40 | U-0621/0 | S-2121/0 |
| 800001416               | 40        | 22 | 90 | 19 | 40 | U-0621/0 | S-2121/0 |
| 800001417               | 40        | 27 | 50 | 21 | 48 | U-0622/0 | S-2111/0 |
| 800001418               | 40        | 27 | 90 | 21 | 48 | U-0622/0 | S-2111/0 |
| 800001419               | 40        | 32 | 50 | 24 | 58 | U-0623/0 | S-2114/0 |
| 800001420               | 40        | 32 | 90 | 24 | 58 | U-0623/0 | S-2114/0 |
| 800001421               | 40        | 40 | 50 | 27 | 70 | U-0624/0 | S-2124/0 |
| 800001422               | 40        | 40 | 90 | 27 | 70 | U-0624/0 | S-2124/0 |



## 7314

- Sägeblattaufnahme
- Milling arbors for disc milling cutters



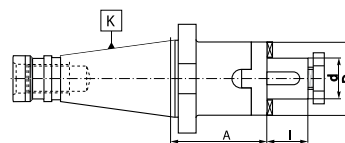
| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | A   |          |          |          |
|-------------------------|-----------|----|----------------|-----|----------|----------|----------|
| 800001423               | 40        | 16 | 29             | 70  | U-6520/0 | U-6510/0 | U-6526/0 |
| 800001424               | 40        | 16 | 29             | 100 | U-6520/0 | U-6511/0 | U-6527/0 |
| 800001425               | 40        | 22 | 36             | 70  | U-6523/0 | U-6512/0 | U-6528/0 |
| 800001426               | 40        | 22 | 36             | 100 | U-6523/0 | U-6513/0 | U-6529/0 |
| 800001427               | 40        | 27 | 42             | 70  | U-6523/0 | U-6514/0 | U-6530/0 |
| 800001428               | 40        | 27 | 42             | 100 | U-6523/0 | U-6515/0 | U-6531/0 |
| 800001429               | 40        | 32 | 50             | 70  | U-6523/0 | U-6516/0 | U-6532/0 |
| 800001430               | 40        | 32 | 50             | 100 | U-6523/0 | U-6517/0 | U-6533/0 |
| 800001431               | 40        | 40 | 58             | 70  | U-6523/0 | U-6518/0 | U-6534/0 |
| 800001432               | 40        | 40 | 58             | 100 | U-6523/0 | U-6519/0 | U-6535/0 |
| 800001433               | 50        | 27 | 42             | 75  | U-6524/0 | U-6514/0 | U-6530/0 |
| 800001434               | 50        | 27 | 42             | 105 | U-6524/0 | U-6515/0 | U-6531/0 |
| 800001435               | 50        | 32 | 50             | 75  | U-6524/0 | U-6516/0 | U-6532/0 |
| 800001436               | 50        | 32 | 50             | 105 | U-6524/0 | U-6517/0 | U-6533/0 |
| 800001437               | 50        | 40 | 58             | 75  | U-6524/0 | U-6518/0 | U-6534/0 |
| 800001438               | 50        | 40 | 58             | 105 | U-6524/0 | U-6519/0 | U-6535/0 |

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A  | I  | D  |          |          |          |
|-------------------------|-----------|----|----|----|----|----------|----------|----------|
| 800001439               | 30        | 16 | 35 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001440               | 30        | 16 | 50 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001441               | 30        | 16 | 73 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001442               | 30        | 22 | 35 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001443               | 30        | 22 | 50 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001444               | 30        | 22 | 73 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001445               | 30        | 27 | 35 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001446               | 30        | 27 | 50 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001447               | 30        | 27 | 73 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001448               | 30        | 32 | 50 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001449               | 40        | 16 | 37 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001450               | 40        | 16 | 52 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001451               | 40        | 16 | 75 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001452               | 40        | 22 | 37 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001453               | 40        | 22 | 52 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001454               | 40        | 22 | 75 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001455               | 40        | 27 | 37 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001456               | 40        | 27 | 52 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A  | I  | D  |          |          |          |
|-------------------------|-----------|----|----|----|----|----------|----------|----------|
| 800001457               | 40        | 27 | 75 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001458               | 40        | 32 | 41 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001459               | 40        | 32 | 52 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001460               | 40        | 32 | 75 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001461               | 40        | 40 | 45 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 800001462               | 40        | 40 | 52 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 800001463               | 40        | 40 | 75 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 800001464               | 50        | 16 | 55 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001465               | 50        | 16 | 78 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001466               | 50        | 22 | 55 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001467               | 50        | 22 | 78 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001468               | 50        | 27 | 55 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001469               | 50        | 27 | 78 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001470               | 50        | 32 | 55 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001471               | 50        | 32 | 78 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001472               | 50        | 40 | 55 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 800001473               | 50        | 40 | 78 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 800001474               | 50        | 50 | 55 | 30 | 90 | U-0625/0 | U-1369/0 | U-1360/0 |
| 800001475               | 50        | 50 | 78 | 30 | 90 | U-0625/0 | U-1369/0 | U-1360/0 |

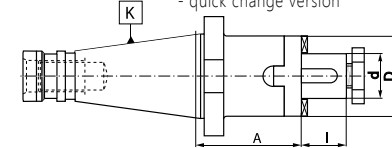
## 7332

- Kombi-Aufsteckfräsdorn zur Aufnahme von Fräsern mit Längs- und Quernut nach DIN 138
- Combination shell mill holders



## 7332 QC

- Kombi-Aufsteckfräsdorn zur Aufnahme von Fräsern mit Längs- und Quernut nach DIN 138 - Schnellwechselsystem
- Combination shell mill holders
- quick change version

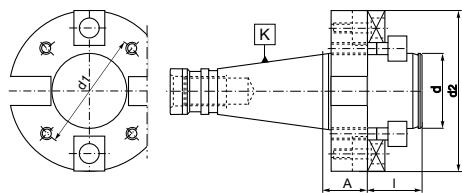


| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A  | I  | D  |          |          |          |
|-------------------------|-----------|----|----|----|----|----------|----------|----------|
| 800001476               | 30        | 16 | 52 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001477               | 30        | 22 | 52 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001478               | 30        | 27 | 54 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001479               | 30        | 32 | 58 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001480               | 40        | 16 | 52 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001481               | 40        | 22 | 52 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001482               | 40        | 27 | 54 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001483               | 40        | 32 | 58 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001484               | 40        | 40 | 60 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |



## 2824

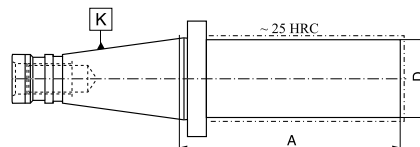
- Werkzeugaufnahme für Messerkopf
- Face mill holders for milling cutters



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | d <sub>2</sub> | A  | I  |  |  |
|-------------------------|-----------|----|----------------|----------------|----|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 800000590               | 40        | 40 | 66             | 89             | 30 | 30 | U-6064/0                                                                          | U-1414/0                                                                          |
| 800000591               | 40        | 50 | 101            | 129            | 30 | 40 | U-6065/0                                                                          | U-2042/0                                                                          |
| 800000592               | 40        | 60 | 101            | 129            | 30 | 40 | U-6066/0                                                                          | U-2042/0                                                                          |
| 800000593               | 50        | 40 | 66             | 89             | 30 | 30 | U-6064/0                                                                          | U-1414/0                                                                          |
| 800000594               | 50        | 50 | 101            | 129            | 30 | 40 | U-6065/0                                                                          | U-2042/0                                                                          |
| 800000595               | 50        | 60 | 101            | 129            | 30 | 40 | U-6066/0                                                                          | U-2042/0                                                                          |

## 2190

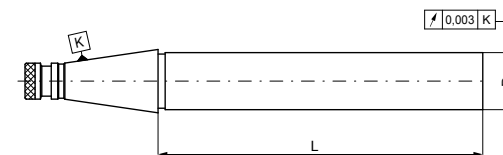
- Bohrstangenrohring
- Machinable blank adapters



| Artikel Nr.<br>Code No. | K<br>7:24 | D  | A   |
|-------------------------|-----------|----|-----|
| 800000551               | 40        | 40 | 280 |
| 800000554               | 40        | 63 | 280 |
| 800000556               | 50        | 50 | 330 |
| 800000558               | 50        | 80 | 330 |

## 2850

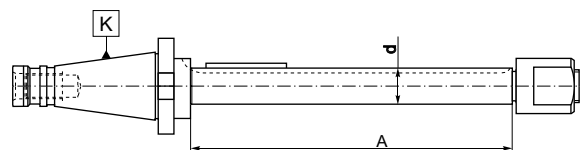
- Prüfdorn
- Control arbor



| Artikel Nr.<br>Code No. | K<br>7:24 | D  | L   |
|-------------------------|-----------|----|-----|
| 800006690               | 40        | 40 | 300 |
| 800006691               | 50        | 50 | 300 |

## 7175

- Fräsdorne
- Long milling machine arbors



| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   |  |  |
|-------------------------|-----------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 800000914               | 30        | 16 | 200 | 4x4x45                                                                              | M16x1,5                                                                             |
| 800000915               | 30        | 16 | 250 | 4x4x45                                                                              | M16x1,5                                                                             |
| 800000916               | 30        | 16 | 315 | 4x4x45                                                                              | M16x1,5                                                                             |
| 800000917               | 30        | 22 | 200 | 6x6x50                                                                              | M20x2                                                                               |
| 800000918               | 30        | 22 | 250 | 6x6x50                                                                              | M20x2                                                                               |
| 800000919               | 30        | 22 | 315 | 6x6x50                                                                              | M20x2                                                                               |
| 800000920               | 30        | 22 | 400 | 6x6x50                                                                              | M20x2                                                                               |
| 800000921               | 30        | 27 | 200 | 7x7x50                                                                              | M24x2                                                                               |
| 800000922               | 30        | 27 | 250 | 7x7x50                                                                              | M24x2                                                                               |

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   |  |  |
|-------------------------|-----------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 800000923               | 30        | 27 | 315 | 7x7x50                                                                              | M24x2                                                                               |
| 800000924               | 30        | 27 | 400 | 7x7x50                                                                              | M24x2                                                                               |
| 800000925               | 40        | 16 | 200 | 4x4x45                                                                              | M16x1,5                                                                             |
| 800000926               | 40        | 16 | 250 | 4x4x45                                                                              | M16x1,5                                                                             |
| 800000927               | 40        | 16 | 315 | 4x4x45                                                                              | M16x1,5                                                                             |
| 800000928               | 40        | 16 | 400 | 4x4x45                                                                              | M16x1,5                                                                             |
| 800000929               | 40        | 22 | 200 | 6x6x50                                                                              | M20x2                                                                               |
| 800000930               | 40        | 22 | 250 | 6x6x50                                                                              | M20x2                                                                               |
| 800000931               | 40        | 22 | 315 | 6x6x50                                                                              | M20x2                                                                               |
| 800000932               | 40        | 22 | 400 | 6x6x50                                                                              | M20x2                                                                               |
| 800000933               | 40        | 22 | 500 | 6x6x50                                                                              | M20x2                                                                               |
| 800000934               | 40        | 27 | 200 | 7x7x50                                                                              | M24x2                                                                               |
| 800000935               | 40        | 27 | 250 | 7x7x50                                                                              | M24x2                                                                               |
| 800000936               | 40        | 27 | 315 | 7x7x50                                                                              | M24x2                                                                               |
| 800000937               | 40        | 27 | 400 | 7x7x50                                                                              | M24x2                                                                               |
| 800000938               | 40        | 27 | 500 | 7x7x50                                                                              | M24x2                                                                               |
| 800000939               | 40        | 27 | 630 | 7x7x50                                                                              | M24x2                                                                               |
| 800000940               | 40        | 32 | 160 | 8x7x63                                                                              | M27x2                                                                               |
| 800000941               | 40        | 32 | 250 | 8x7x63                                                                              | M27x2                                                                               |
| 800000942               | 40        | 32 | 315 | 8x7x63                                                                              | M27x2                                                                               |
| 800000943               | 40        | 32 | 400 | 8x7x63                                                                              | M27x2                                                                               |
| 800000944               | 40        | 32 | 500 | 8x7x63                                                                              | M27x2                                                                               |
| 800000945               | 40        | 32 | 630 | 8x7x63                                                                              | M27x2                                                                               |
| 800000946               | 40        | 40 | 315 | 10x8x63                                                                             | M33x2                                                                               |
| 800000947               | 40        | 40 | 400 | 10x8x63                                                                             | M33x2                                                                               |
| 800000948               | 40        | 40 | 500 | 10x8x63                                                                             | M33x2                                                                               |
| 800000949               | 40        | 40 | 630 | 10x8x63                                                                             | M33x2                                                                               |
| 800000950               | 50        | 22 | 200 | 6x6x50                                                                              | M20x2                                                                               |
| 800000951               | 50        | 22 | 250 | 6x6x50                                                                              | M20x2                                                                               |
| 800000952               | 50        | 22 | 315 | 6x6x50                                                                              | M20x2                                                                               |

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A    |  |  |
|-------------------------|-----------|----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 800000953               | 50        | 22 | 400  | 6x6x50                                                                              | M20x2                                                                               |
| 800000954               | 50        | 22 | 500  | 6x6x50                                                                              | M20x2                                                                               |
| 800000955               | 50        | 22 | 630  | 6x6x50                                                                              | M20x2                                                                               |
| 800000956               | 50        | 27 | 315  | 7x7x50                                                                              | M24x2                                                                               |
| 800000957               | 50        | 27 | 400  | 7x7x50                                                                              | M24x2                                                                               |
| 800000958               | 50        | 27 | 500  | 7x7x50                                                                              | M24x2                                                                               |
| 800000959               | 50        | 27 | 630  | 7x7x50                                                                              | M24x2                                                                               |
| 800000960               | 50        | 27 | 800  | 7x7x50                                                                              | M24x2                                                                               |
| 800000961               | 50        | 32 | 315  | 8x7x63                                                                              | M27x2                                                                               |
| 800000962               | 50        | 32 | 400  | 8x7x63                                                                              | M27x2                                                                               |
| 800000963               | 50        | 32 | 500  | 8x7x63                                                                              | M27x2                                                                               |
| 800000964               | 50        | 32 | 630  | 8x7x63                                                                              | M27x2                                                                               |
| 800000965               | 50        | 32 | 800  | 8x7x63                                                                              | M27x2                                                                               |
| 800000966               | 50        | 32 | 900  | 8x7x63                                                                              | M27x2                                                                               |
| 800003425               | 50        | 32 | 1000 | 8x7x63                                                                              | M27x2                                                                               |
| 800000968               | 50        | 40 | 400  | 10x8x63                                                                             | M33x3                                                                               |
| 800000969               | 50        | 40 | 500  | 10x8x63                                                                             | M33x3                                                                               |
| 800000970               | 50        | 40 | 630  | 10x8x63                                                                             | M33x3                                                                               |
| 800000971               | 50        | 40 | 800  | 10x8x63                                                                             | M33x3                                                                               |
| 800000972               | 50        | 40 | 900  | 10x8x63                                                                             | M33x3                                                                               |
| 800000967               | 50        | 40 | 1000 | 10x8x63                                                                             | M33x3                                                                               |
| 800000974               | 50        | 50 | 400  | 12x8x80                                                                             | M39x3                                                                               |
| 800000975               | 50        | 50 | 500  | 12x8x80                                                                             | M39x3                                                                               |
| 800000976               | 50        | 50 | 630  | 12x8x80                                                                             | M39x3                                                                               |
| 800000977               | 50        | 50 | 800  | 12x8x80                                                                             | M39x3                                                                               |
| 800000978               | 50        | 50 | 900  | 12x8x80                                                                             | M39x3                                                                               |
| 800000973               | 50        | 50 | 1000 | 12x8x80                                                                             | M39x3                                                                               |
| 800000979               | 50        | 60 | 630  | 14x9x80                                                                             | M45x3                                                                               |
| 800000980               | 50        | 60 | 800  | 14x9x80                                                                             | M45x3                                                                               |
| 800000981               | 50        | 60 | 900  | 14x9x80                                                                             | M45x3                                                                               |
| 800000982               | 50        | 60 | 1000 | 14x9x80                                                                             | M45x3                                                                               |

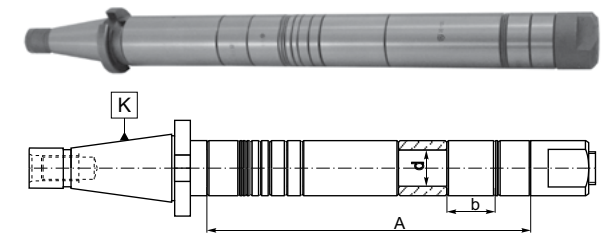


| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | B Ringe / Anzahl pro Welle        |   |   |   |   |    |    |    |    |     |  |
|-------------------------|-----------|----|-----|-----------------------------------|---|---|---|---|----|----|----|----|-----|--|
|                         |           |    |     | B rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |     |  |
|                         |           |    |     | b                                 | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |  |
| 800000983               | 30        | 16 | 200 |                                   | 2 | 3 | 4 | 2 | 4  | 2  | 3  | -  | -   |  |
| 800000984               | 30        | 16 | 250 |                                   | 2 | 3 | 4 | 2 | 4  | 3  | 4  | -  | -   |  |
| 800000985               | 30        | 16 | 315 |                                   | 1 | 4 | 2 | 2 | 4  | 5  | 5  | -  | -   |  |
| 800000986               | 30        | 22 | 200 |                                   | 1 | 3 | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |
| 800000987               | 30        | 22 | 250 |                                   | 1 | 3 | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |
| 800000988               | 30        | 22 | 315 |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 800000989               | 30        | 22 | 400 |                                   | 1 | 3 | 1 | 2 | 3  | 4  | 3  | 3  | -   |  |
| 800000990               | 30        | 27 | 200 |                                   | 1 | 3 | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |
| 800000991               | 30        | 27 | 250 |                                   | 1 | 3 | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |
| 800000992               | 30        | 27 | 315 |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 800000993               | 30        | 27 | 400 |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 800000994               | 40        | 16 | 200 |                                   | 2 | 3 | 4 | 2 | 4  | 2  | 3  | -  | -   |  |
| 800000995               | 40        | 16 | 250 |                                   | 2 | 3 | 4 | 2 | 4  | 3  | 4  | -  | -   |  |
| 800000996               | 40        | 16 | 315 |                                   | 1 | 4 | 2 | 2 | 4  | 5  | 5  | -  | -   |  |
| 800000997               | 40        | 16 | 400 |                                   | 1 | 5 | 3 | 2 | 4  | 6  | 7  | -  | -   |  |
| 800000998               | 40        | 22 | 200 |                                   | 1 | 3 | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |
| 800000999               | 40        | 22 | 250 |                                   | 1 | 3 | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |
| 800001000               | 40        | 22 | 315 |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 800001001               | 40        | 22 | 400 |                                   | 1 | 3 | 1 | 2 | 3  | 4  | 3  | 3  | -   |  |
| 800001002               | 40        | 22 | 500 |                                   | 2 | 3 | 2 | 3 | 3  | 4  | 4  | 4  | -   |  |
| 800001003               | 40        | 27 | 200 |                                   | 1 | 3 | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |
| 800001004               | 40        | 27 | 250 |                                   | 1 | 3 | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |
| 800001005               | 40        | 27 | 315 |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 800001006               | 40        | 27 | 400 |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 800001007               | 40        | 27 | 500 |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 800001008               | 40        | 27 | 630 |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 3  | 3  | 3   |  |
| 800001009               | 40        | 32 | 160 |                                   | 2 | 3 | 4 | 2 | 3  | 2  | 2  | -  | -   |  |
| 800001010               | 40        | 32 | 250 |                                   | 1 | 3 | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |
| 800001011               | 40        | 32 | 315 |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 800001012               | 40        | 32 | 400 |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A    | B Ringe / Anzahl pro Welle        |   |   |   |   |    |    |    |    |     |  |
|-------------------------|-----------|----|------|-----------------------------------|---|---|---|---|----|----|----|----|-----|--|
|                         |           |    |      | B rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |     |  |
|                         |           |    |      | b                                 | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |  |
| 800001013               | 40        | 32 | 500  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 800001014               | 40        | 32 | 630  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 800001015               | 40        | 40 | 315  |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 800001016               | 40        | 40 | 400  |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 800001017               | 40        | 40 | 500  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 800001018               | 40        | 40 | 630  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 800001019               | 50        | 22 | 200  |                                   | 1 | 3 | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |
| 800001020               | 50        | 22 | 250  |                                   | 1 | 3 | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |
| 800001021               | 50        | 22 | 315  |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 800001022               | 50        | 22 | 400  |                                   | 1 | 3 | 1 | 2 | 3  | 4  | 3  | 3  | -   |  |
| 800001023               | 50        | 22 | 500  |                                   | 2 | 3 | 2 | 3 | 3  | 4  | 4  | 4  | -   |  |
| 800001024               | 50        | 22 | 630  |                                   | 2 | 3 | 2 | 3 | 3  | 4  | 4  | 4  | -   |  |
| 800001025               | 50        | 27 | 315  |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 800001026               | 50        | 27 | 400  |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 800001027               | 50        | 27 | 500  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 800001028               | 50        | 27 | 630  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 800001029               | 50        | 27 | 800  |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 800001030               | 50        | 32 | 315  |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 800001031               | 50        | 32 | 400  |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 800001032               | 50        | 32 | 500  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 800001033               | 50        | 32 | 630  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 800001034               | 50        | 32 | 800  |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 800001035               | 50        | 32 | 900  |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 4   |  |
| 800001036               | 50        | 32 | 1000 |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 5   |  |
| 800001037               | 50        | 40 | 400  |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 800001038               | 50        | 40 | 500  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 800001039               | 50        | 40 | 630  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 800001040               | 50        | 40 | 800  |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 800001041               | 50        | 40 | 900  |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 4   |  |
| 800001042               | 50        | 40 | 1000 |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 5   |  |

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- Fräsdorne
- Long milling machine arbors

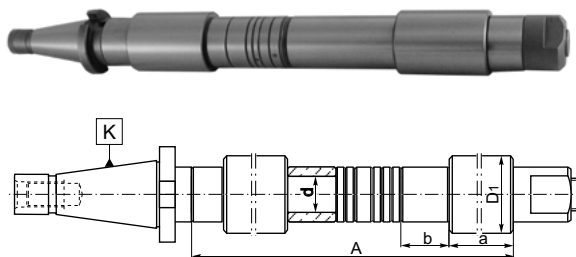


| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A    | B Ringe / Anzahl pro Welle        |   |   |   |   |    |    |    |    |     |  |
|-------------------------|-----------|----|------|-----------------------------------|---|---|---|---|----|----|----|----|-----|--|
|                         |           |    |      | B rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |     |  |
|                         |           |    |      | b                                 | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |  |
| 800001043               | 50        | 50 | 400  |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 800001044               | 50        | 50 | 500  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 800001045               | 50        | 50 | 630  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 800001046               | 50        | 50 | 800  |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 800001047               | 50        | 50 | 900  |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 4   |  |
| 800001048               | 50        | 50 | 1000 |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 5   |  |
| 800001049               | 50        | 60 | 630  |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 800001050               | 50        | 60 | 800  |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 800001051               | 50        | 60 | 900  |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 4   |  |
| 800001052               | 50        | 60 | 1000 |                                   | 4 | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 5   |  |

| Artikel Nr. | K<br>7:24 | d  | A   | B Ringe / Anzahl pro Welle        |   |   |   |   |    |    |    |    |     | dxD1a*   |
|-------------|-----------|----|-----|-----------------------------------|---|---|---|---|----|----|----|----|-----|----------|
|             |           |    |     | B Rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |     |          |
|             |           |    |     | b                                 | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |          |
| 800001053   | 30        | 16 | 200 |                                   | 1 | 3 | 3 | 1 | 2  | 2  | 2  | -  | -   | 16x42x60 |
| 800001054   | 30        | 16 | 250 |                                   | 1 | 3 | 3 | 1 | 4  | 2  | 3  | -  | -   | 16x42x60 |
| 800001055   | 30        | 16 | 315 |                                   | 3 | 3 | 4 | 1 | 5  | 3  | 4  | -  | -   | 16x42x60 |
| 800001056   | 30        | 22 | 200 |                                   | 1 | 3 | 3 | 1 | 2  | 2  | 2  | -  | -   | 22x42x60 |
| 800001057   | 30        | 22 | 250 |                                   | 1 | 3 | 3 | 1 | 1  | 2  | 2  | 1  | -   | 22x42x60 |
| 800001058   | 30        | 22 | 315 |                                   | 1 | 4 | 2 | 2 | 2  | 3  | 3  | 1  | -   | 22x42x60 |
| 800001059   | 30        | 22 | 400 |                                   | 1 | 3 | 3 | 1 | 2  | 3  | 2  | 3  | -   | 22x42x60 |
| 800001060   | 30        | 27 | 200 |                                   | 1 | 1 | 1 | 1 | 2  | 2  | 2  | -  | -   | 27x48x70 |
| 800001061   | 30        | 27 | 250 |                                   | 1 | 1 | 1 | 1 | 1  | 2  | 2  | 1  | -   | 27x48x70 |
| 800001062   | 30        | 27 | 315 |                                   | 1 | 2 | 2 | 1 | 2  | 3  | 3  | 1  | -   | 27x48x70 |
| 800001063   | 30        | 27 | 400 |                                   | 1 | 1 | 1 | 1 | 2  | 1  | 2  | 2  | 1   | 27x48x70 |
| 800001064   | 40        | 16 | 200 |                                   | 2 | 1 | 2 | 2 | 2  | 1  | 2  | -  | -   | 16x56x80 |
| 800001065   | 40        | 16 | 250 |                                   | 1 | 3 | 3 | 1 | 4  | 1  | 3  | -  | -   | 16x56x80 |
| 800001066   | 40        | 16 | 315 |                                   | 3 | 3 | 4 | 1 | 5  | 2  | 4  | -  | -   | 16x56x80 |
| 800001067   | 40        | 16 | 400 |                                   | 2 | 3 | 4 | 2 | 5  | 3  | 6  | -  | -   | 16x56x80 |
| 800001068   | 40        | 22 | 200 |                                   | 1 | 3 | 3 | 1 | 2  | 1  | 2  | -  | -   | 22x56x80 |
| 800001069   | 40        | 22 | 250 |                                   | 1 | 3 | 3 | 1 | 1  | 1  | 2  | 1  | -   | 22x56x80 |
| 800001070   | 40        | 22 | 315 |                                   | 1 | 4 | 2 | 2 | 2  | 2  | 3  | 1  | -   | 22x56x80 |
| 800001071   | 40        | 22 | 400 |                                   | 1 | 3 | 3 | 1 | 2  | 2  | 2  | 3  | -   | 22x56x80 |
| 800001072   | 40        | 22 | 500 |                                   | 1 | 3 | 3 | 1 | 3  | 2  | 3  | 4  | -   | 22x56x80 |
| 800001073   | 40        | 27 | 250 |                                   | 1 | 3 | 3 | 1 | 2  | 2  | 1  | 1  | -   | 27x56x80 |
| 800001074   | 40        | 27 | 315 |                                   | 2 | 2 | 3 | 2 | 1  | 1  | 2  | 2  | -   | 27x56x80 |
| 800001075   | 40        | 27 | 400 |                                   | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 1   | 27x56x80 |
| 800001076   | 40        | 27 | 500 |                                   | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 2   | 27x56x80 |
| 800001077   | 40        | 27 | 630 |                                   | 2 | 3 | 4 | 2 | 2  | 3  | 2  | 3  | 2   | 27x56x80 |
| 800001078   | 40        | 32 | 250 |                                   | 1 | 3 | 3 | 1 | 2  | 2  | 1  | 1  | -   | 32x56x80 |
| 800001079   | 40        | 32 | 315 |                                   | 2 | 2 | 3 | 2 | 1  | 1  | 2  | 2  | -   | 32x56x80 |
| 800001080   | 40        | 32 | 400 |                                   | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 1   | 32x56x80 |
| 800001081   | 40        | 32 | 500 |                                   | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 2   | 32x56x80 |
| 800001082   | 40        | 32 | 630 |                                   | 2 | 3 | 4 | 2 | 2  | 3  | 2  | 3  | 2   | 32x56x80 |

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- Fräsdorne
- Long milling machine arbors



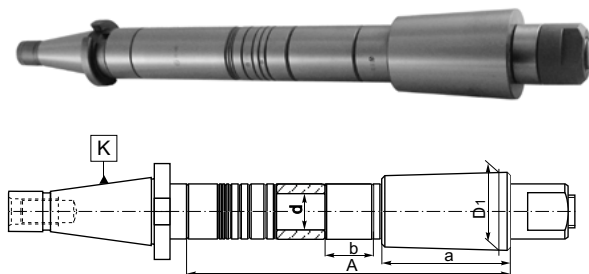
| Artikel Nr. | K<br>7:24 | d  | A   | B Ringe / Anzahl pro Welle        |   |   |   |   |    |    |    |    |           | dxD1xa*   |
|-------------|-----------|----|-----|-----------------------------------|---|---|---|---|----|----|----|----|-----------|-----------|
|             |           |    |     | B rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |           |           |
|             |           |    |     | b                                 | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100       |           |
| 800001121   | 30        | 16 | 315 |                                   | 2 | 2 | 2 | 2 | 2  | 3  | 3  | -  | -         | 16x42x60  |
| 800001122   | 30        | 22 | 315 |                                   | 2 | 2 | 2 | 2 | 2  | 3  | 3  | -  | -         | 22x42x60  |
| 800001123   | 30        | 22 | 400 |                                   | 2 | 1 | 3 | 1 | 3  | 4  | 3  | 1  | -         | 22x42x60  |
| 800001124   | 30        | 27 | 315 |                                   | 2 | 2 | 1 | 3 | 2  | 2  | 3  | -  | -         | 27x48x70  |
| 800001125   | 30        | 27 | 400 |                                   | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 1  | -         | 27x48x70  |
| 800001126   | 40        | 16 | 315 |                                   | 2 | 2 | 1 | 3 | 3  | 3  | 2  | -  | -         | 16x48x70  |
| 800001127   | 40        | 16 | 400 |                                   | 2 | 3 | 2 | 3 | 3  | 4  | 4  | -  | -         | 16x48x70  |
| 800001128   | 40        | 22 | 315 |                                   | 2 | 2 | 1 | 3 | 1  | 3  | 2  | -  | -         | 22x56x80  |
| 800001129   | 40        | 22 | 400 |                                   | 2 | 1 | 2 | 2 | 2  | 4  | 2  | 1  | -         | 22x56x80  |
| 800001130   | 40        | 22 | 500 |                                   | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 3  | -         | 22x56x80  |
| 800003426   | 40        | 27 | 315 |                                   | 2 | 2 | 1 | 3 | 3  | 2  | 2  | -  | -         | 27x56x80  |
| 800001131   | 40        | 27 | 400 |                                   | 2 | 1 | 2 | 2 | 4  | 3  | 2  | 1  | -         | 27x56x80  |
| 800001132   | 40        | 27 | 500 |                                   | 2 | 3 | 2 | 3 | 4  | 3  | 3  | 2  | -         | 27x56x80  |
| 800001133   | 40        | 27 | 630 |                                   | 4 | 4 | 4 | 3 | 2  | 2  | 3  | 3  | 1         | 27x56x80  |
| 800001134   | 40        | 32 | 315 |                                   | 2 | 2 | 1 | 3 | 3  | 2  | 2  | -  | -         | 32x56x80  |
| 800001135   | 40        | 32 | 400 |                                   | 2 | 1 | 2 | 2 | 4  | 3  | 2  | 1  | -         | 32x56x80  |
| 800001136   | 40        | 32 | 500 |                                   | 2 | 3 | 2 | 3 | 4  | 3  | 3  | 2  | -         | 32x56x80  |
| 800001137   | 40        | 32 | 630 |                                   | 4 | 4 | 4 | 3 | 2  | 2  | 3  | 3  | 1         | 32x56x80  |
| 800001138   | 40        | 40 | 315 |                                   | 2 | 2 | 1 | 3 | 2  | 2  | 1  | -  | -         | 40x70x100 |
| 800001139   | 40        | 40 | 400 |                                   | 2 | 1 | 2 | 2 | 2  | 2  | 2  | 1  | -         | 40x70x100 |
| 800001140   | 40        | 40 | 500 |                                   | 2 | 3 | 2 | 3 | 2  | 2  | 3  | 2  | -         | 40x70x100 |
| 800001141   | 40        | 40 | 630 |                                   | 4 | 4 | 4 | 3 | 2  | 3  | 3  | 2  | 1         | 40x70x100 |
| 800001142   | 50        | 22 | 315 |                                   | 2 | 2 | 3 | 2 | 2  | 2  | 1  | -  | -         | 22x70x100 |
| 800001143   | 50        | 22 | 400 |                                   | 2 | 1 | 2 | 2 | 3  | 3  | 3  | -  | -         | 22x70x100 |
| 800001144   | 50        | 22 | 500 | 2                                 | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | 22x70x100 |           |
| 800001145   | 50        | 22 | 630 | 2                                 | 1 | 2 | 2 | 4 | 2  | 3  | 4  | -  | 22x70x100 |           |
| 800001146   | 50        | 27 | 315 | 2                                 | 2 | 3 | 2 | 2 | 2  | 1  | -  | -  | 27x70x100 |           |

\*Zylinderhülse \*Cylindrical sleeve

| Artikel Nr. | K<br>7:24 | d  | A    | B Ringe / Anzahl pro Welle        |   |   |   |   |    |    |    |    |     | dxD1xa*    |
|-------------|-----------|----|------|-----------------------------------|---|---|---|---|----|----|----|----|-----|------------|
|             |           |    |      | B rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |     |            |
|             |           |    |      | b                                 | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |            |
| 800001147   | 50        | 27 | 400  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | -  | -  | -   | 27x70x100  |
| 800001148   | 50        | 27 | 500  | 2                                 | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 27x70x100  |
| 800001149   | 50        | 27 | 630  | 4                                 | 4 | 4 | 3 | 4 | 2  | 3  | 2  | 1  | -   | 27x70x100  |
| 800001150   | 50        | 27 | 800  | 4                                 | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 2  | -   | 27x70x100  |
| 800001151   | 50        | 32 | 315  | 2                                 | 2 | 3 | 2 | 2 | 2  | 1  | -  | -  | -   | 32x70x100  |
| 800001152   | 50        | 32 | 400  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | -  | -  | -   | 32x70x100  |
| 800001153   | 50        | 32 | 500  | 2                                 | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 32x70x100  |
| 800001154   | 50        | 32 | 630  | 4                                 | 4 | 4 | 3 | 4 | 2  | 3  | 2  | 1  | -   | 32x70x100  |
| 800001155   | 50        | 32 | 800  | 4                                 | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 2  | -   | 32x70x100  |
| 800001156   | 50        | 32 | 900  | 4                                 | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 3  | -   | 32x70x100  |
| 800001157   | 50        | 32 | 1000 | 4                                 | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 4  | -   | 32x70x100  |
| 800001158   | 50        | 40 | 400  | 2                                 | 1 | 2 | 2 | 2 | 3  | 2  | -  | -  | -   | 40x85x120  |
| 800001159   | 50        | 40 | 500  | 2                                 | 1 | 2 | 2 | 3 | 3  | 1  | 2  | -  | -   | 40x85x120  |
| 800001160   | 50        | 40 | 630  | 4                                 | 4 | 4 | 3 | 3 | 2  | 2  | 2  | 1  | -   | 40x85x120  |
| 800001161   | 50        | 40 | 800  | 4                                 | 4 | 4 | 3 | 1 | 2  | 3  | 3  | 2  | -   | 40x85x120  |
| 800001162   | 50        | 40 | 900  | 4                                 | 4 | 4 | 3 | 1 | 2  | 3  | 3  | 3  | -   | 40x85x120  |
| 800001163   | 50        | 40 | 1000 | 4                                 | 4 | 4 | 3 | 1 | 2  | 3  | 3  | 4  | -   | 40x85x120  |
| 800001164   | 50        | 50 | 400  | 2                                 | 1 | 2 | 2 | 2 | 3  | 2  | -  | -  | -   | 50x85x120  |
| 800001165   | 50        | 50 | 500  | 2                                 | 1 | 2 | 2 | 3 | 3  | 1  | 2  | -  | -   | 50x85x120  |
| 800001166   | 50        | 50 | 630  | 4                                 | 4 | 4 | 3 | 3 | 2  | 2  | 2  | 1  | -   | 50x85x120  |
| 800001167   | 50        | 50 | 800  | 4                                 | 4 | 4 | 3 | 1 | 2  | 3  | 3  | 2  | -   | 50x85x120  |
| 800001168   | 50        | 50 | 900  | 4                                 | 4 | 4 | 3 | 1 | 2  | 3  | 3  | 3  | -   | 50x85x120  |
| 800001169   | 50        | 50 | 1000 | 4                                 | 4 | 4 | 3 | 1 | 2  | 3  | 3  | 4  | -   | 50x85x120  |
| 800001170   | 50        | 63 | 630  | 4                                 | 4 | 4 | 3 | 1 | 1  | 2  | 2  | 1  | -   | 63x110x140 |
| 800001171   | 50        | 63 | 800  | 4                                 | 4 | 4 | 3 | 2 | 1  | 2  | 3  | 2  | -   | 63x110x140 |
| 800001172   | 50        | 63 | 900  | 4                                 | 4 | 4 | 3 | 2 | 1  | 2  | 3  | 3  | -   | 63x110x140 |
| 800001173   | 50        | 63 | 1000 | 4                                 | 4 | 4 | 3 | 2 | 1  | 2  | 3  | 4  | -   | 63x110x140 |

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- Fräsdorne
- Long milling machine arbors



| Artikel Nr. | K<br>7:24 | d  | A   | B Ringe / Anzahl pro Welle        |   |   |   |   |    |    |    |    |     | dxD1xa* |           |
|-------------|-----------|----|-----|-----------------------------------|---|---|---|---|----|----|----|----|-----|---------|-----------|
|             |           |    |     | B rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |     |         |           |
|             |           |    |     | b                                 | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |         |           |
| Code No.    |           |    |     |                                   |   |   |   |   |    |    |    |    |     |         |           |
| 800001174   | 40        | 22 | 200 |                                   | 1 | 3 | 3 | 1 | 2  | 1  | 2  | -  | -   | -       | 22x47x80  |
| 800001175   | 40        | 22 | 250 |                                   | 1 | 3 | 3 | 1 | 1  | 1  | 2  | 1  | -   | -       | 22x47x80  |
| 800001176   | 40        | 22 | 315 |                                   | 1 | 4 | 2 | 2 | 2  | 2  | 3  | 1  | -   | -       | 22x47x80  |
| 800001177   | 40        | 22 | 400 |                                   | 1 | 3 | 3 | 1 | 2  | 2  | 2  | 3  | -   | -       | 22x47x80  |
| 800001178   | 40        | 22 | 500 |                                   | 1 | 3 | 3 | 1 | 3  | 2  | 3  | 4  | -   | -       | 22x47x80  |
| 800001179   | 40        | 27 | 250 |                                   | 1 | 3 | 3 | 1 | 2  | 2  | 1  | 1  | -   | -       | 27x47x80  |
| 800001180   | 40        | 27 | 315 |                                   | 2 | 2 | 3 | 2 | 1  | 1  | 2  | 2  | -   | -       | 27x47x80  |
| 800001181   | 40        | 27 | 400 |                                   | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 1   | -       | 27x47x80  |
| 800001182   | 40        | 27 | 500 |                                   | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 2   | -       | 27x47x80  |
| 800001183   | 40        | 27 | 630 |                                   | 2 | 3 | 4 | 2 | 2  | 3  | 2  | 3  | 2   | -       | 27x47x80  |
| 800001184   | 40        | 32 | 250 |                                   | 1 | 3 | 3 | 1 | 2  | 2  | 1  | 1  | -   | -       | 32x47x80  |
| 800001185   | 40        | 32 | 315 |                                   | 2 | 2 | 3 | 2 | 1  | 1  | 2  | 2  | -   | -       | 32x47x80  |
| 800001186   | 40        | 32 | 400 |                                   | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 1   | -       | 32x47x80  |
| 800001187   | 40        | 32 | 500 |                                   | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 2   | -       | 32x47x80  |
| 800001188   | 40        | 32 | 630 |                                   | 2 | 3 | 4 | 2 | 2  | 3  | 2  | 3  | 2   | -       | 32x47x80  |
| 800001189   | 50        | 22 | 200 |                                   | 1 | 3 | 1 | 2 | 1  | 2  | 1  | -  | -   | -       | 22x70x100 |
| 800001190   | 50        | 22 | 250 |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 2  | -  | -   | -       | 22x70x100 |
| 800001191   | 50        | 22 | 315 |                                   | 1 | 4 | 2 | 2 | 1  | 3  | 2  | 1  | -   | -       | 22x70x100 |
| 800001192   | 50        | 22 | 400 |                                   | 1 | 3 | 1 | 2 | 1  | 3  | 1  | 3  | -   | -       | 22x70x100 |
| 800001193   | 50        | 22 | 500 |                                   | 2 | 3 | 4 | 2 | 4  | 3  | 3  | 3  | -   | -       | 22x70x100 |
| 800001194   | 50        | 22 | 630 |                                   | 2 | 3 | 4 | 2 | 4  | 2  | 4  | 5  | -   | -       | 22x70x100 |
| 800001195   | 50        | 27 | 315 |                                   | 2 | 2 | 3 | 2 | 2  | 1  | 1  | 2  | -   | -       | 27x70x100 |
| 800001196   | 50        | 27 | 400 |                                   | 2 | 1 | 2 | 2 | 4  | 3  | 2  | 2  | -   | -       | 27x70x100 |
| 800001197   | 50        | 27 | 500 |                                   | 2 | 1 | 2 | 2 | 3  | 4  | 3  | 3  | -   | -       | 27x70x100 |

\*Konushülse \*Conical sleeve

| Artikel Nr. | K<br>7:24 | d  | A    | B Ringe / Anzahl pro Welle        |   |   |   |   |    |    |    |    |     | dxD1xa*   |
|-------------|-----------|----|------|-----------------------------------|---|---|---|---|----|----|----|----|-----|-----------|
|             |           |    |      | B rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |     |           |
|             |           |    |      | b                                 | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |           |
| Code No.    |           |    |      |                                   |   |   |   |   |    |    |    |    |     |           |
| 800001198   | 50        | 27 | 630  | 2                                 | 3 | 4 | 2 | 2 | 2  | 2  | 3  | 2  | -   | 27x70x100 |
| 800001199   | 50        | 27 | 800  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 2  | -   | 27x70x100 |
| 800001200   | 50        | 32 | 315  | 2                                 | 2 | 3 | 2 | 2 | 1  | 1  | 2  | -  | -   | 32x70x100 |
| 800001201   | 50        | 32 | 400  | 2                                 | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 32x70x100 |
| 800001202   | 50        | 32 | 500  | 2                                 | 1 | 2 | 2 | 3 | 4  | 3  | 3  | -  | -   | 32x70x100 |
| 800001203   | 50        | 32 | 630  | 2                                 | 3 | 4 | 2 | 2 | 2  | 2  | 3  | 2  | -   | 32x70x100 |
| 800001204   | 50        | 32 | 800  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 2  | -   | 32x70x100 |
| 800001205   | 50        | 32 | 900  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 3  | -   | 32x70x100 |
| 800001206   | 50        | 32 | 1000 | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 4  | -   | 32x70x100 |
| 800001207   | 50        | 40 | 400  | 2                                 | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 40x70x100 |
| 800001208   | 50        | 40 | 500  | 2                                 | 1 | 2 | 2 | 3 | 4  | 3  | 3  | -  | -   | 40x70x100 |
| 800001209   | 50        | 40 | 630  | 2                                 | 3 | 4 | 2 | 2 | 2  | 2  | 3  | 2  | -   | 40x70x100 |
| 800001210   | 50        | 40 | 800  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 2  | -   | 40x70x100 |
| 800001211   | 50        | 40 | 900  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 3  | -   | 40x70x100 |
| 800001212   | 50        | 40 | 1000 | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 4  | -   | 40x70x100 |
| 800001213   | 50        | 50 | 400  | 2                                 | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 50x86x100 |
| 800001214   | 50        | 50 | 500  | 2                                 | 1 | 2 | 2 | 3 | 4  | 3  | 3  | -  | -   | 50x86x100 |
| 800003427   | 50        | 50 | 630  | 2                                 | 3 | 4 | 2 | 2 | 2  | 2  | 3  | 2  | -   | 50x86x100 |
| 800003428   | 50        | 50 | 800  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 2  | -   | 50x86x100 |
| 800003429   | 50        | 50 | 900  | 2                                 | 1 | 2 | 2 | 2 | 3  | 3  | 5  | 3  | -   | 50x86x100 |
| 800003430   | 50        | 50 | 1000 | 2                                 | 1 | 2 | 2 | 2 | 3  | 3  | 5  | 4  | -   | 50x86x100 |
| 800003431   | 50        | 60 | 630  | 2                                 | 3 | 4 | 2 | 2 | 2  | 2  | 3  | 2  | -   | 63x86x100 |
| 800003432   | 50        | 60 | 800  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 2  | -   | 63x86x100 |
| 800003433   | 50        | 60 | 900  | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 3  | -   | 63x86x100 |
| 800003434   | 50        | 60 | 1000 | 2                                 | 1 | 2 | 2 | 3 | 3  | 3  | 5  | 4  | -   | 63x86x100 |



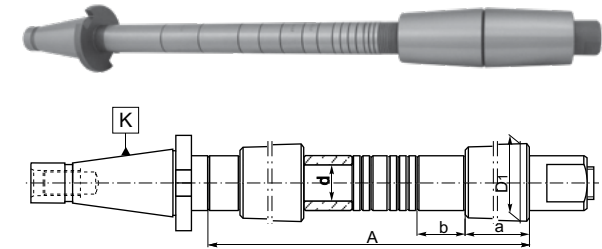
| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A   | B Ringe / Anzahl pro Welle<br>B rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |     | dxD1xa*   |
|-------------------------|-----------|----|-----|-----------------------------------------------------------------|---|---|---|---|----|----|----|----|-----|-----------|
|                         |           |    |     | b                                                               | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |           |
| 800001215               | 40        | 22 | 315 | 2                                                               | 2 | 1 | 3 | 1 | 3  | 2  | -  | -  | -   | 22x47x80  |
| 800001216               | 40        | 22 | 400 | 2                                                               | 1 | 2 | 2 | 2 | 4  | 2  | 1  | -  | -   | 22x47x80  |
| 800001217               | 40        | 22 | 500 | 2                                                               | 1 | 2 | 2 | 2 | 3  | 2  | 3  | -  | -   | 22x47x80  |
| 800001218               | 40        | 27 | 315 | 2                                                               | 2 | 1 | 3 | 3 | 2  | 2  | -  | -  | -   | 22x47x80  |
| 800001219               | 40        | 27 | 400 | 2                                                               | 1 | 2 | 2 | 4 | 3  | 2  | 1  | -  | -   | 22x47x80  |
| 800001220               | 40        | 27 | 500 | 2                                                               | 3 | 2 | 3 | 4 | 3  | 3  | 2  | -  | -   | 22x47x80  |
| 800001221               | 40        | 27 | 630 | 4                                                               | 4 | 4 | 3 | 2 | 2  | 3  | 3  | 1  | -   | 22x47x80  |
| 800001222               | 40        | 32 | 315 | 2                                                               | 2 | 1 | 3 | 3 | 2  | 2  | -  | -  | -   | 32x47x80  |
| 800001223               | 40        | 32 | 400 | 2                                                               | 1 | 2 | 2 | 4 | 3  | 3  | 2  | -  | -   | 32x47x80  |
| 800001224               | 40        | 32 | 500 | 2                                                               | 3 | 2 | 3 | 4 | 3  | 3  | 2  | -  | -   | 32x47x80  |
| 800001225               | 40        | 32 | 630 | 4                                                               | 4 | 4 | 3 | 2 | 2  | 3  | 3  | 1  | -   | 32x47x80  |
| 800001226               | 50        | 22 | 315 | 2                                                               | 2 | 3 | 2 | 2 | 2  | 1  | -  | -  | -   | 22x70x100 |
| 800001227               | 50        | 22 | 400 | 2                                                               | 1 | 2 | 2 | 3 | 3  | 3  | -  | -  | -   | 22x70x100 |
| 800001228               | 50        | 22 | 500 | 2                                                               | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 22x70x100 |
| 800001229               | 50        | 22 | 630 | 2                                                               | 1 | 2 | 2 | 4 | 2  | 3  | 4  | -  | -   | 22x70x100 |
| 800001230               | 50        | 27 | 315 | 2                                                               | 2 | 3 | 2 | 2 | 2  | 1  | -  | -  | -   | 22x70x100 |
| 800001231               | 50        | 27 | 400 | 2                                                               | 1 | 2 | 2 | 3 | 3  | 3  | -  | -  | -   | 22x70x100 |
| 800001232               | 50        | 27 | 500 | 2                                                               | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 22x70x100 |
| 800001233               | 50        | 27 | 630 | 4                                                               | 4 | 4 | 3 | 4 | 2  | 3  | 2  | 1  | -   | 22x70x100 |
| 800001234               | 50        | 27 | 800 | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 2  | -   | 22x70x100 |
| 800001235               | 50        | 32 | 315 | 2                                                               | 2 | 3 | 2 | 2 | 2  | 1  | -  | -  | -   | 32x70x100 |
| 800001236               | 50        | 32 | 400 | 2                                                               | 1 | 2 | 2 | 3 | 3  | 3  | -  | -  | -   | 32x70x100 |

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | A    | B Ringe / Anzahl pro Welle<br>B rings / Number of pcs per arbor |   |   |   |   |    |    |    |    |     | dxD1xa*   |
|-------------------------|-----------|----|------|-----------------------------------------------------------------|---|---|---|---|----|----|----|----|-----|-----------|
|                         |           |    |      | b                                                               | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |           |
| 800001237               | 50        | 32 | 500  | 2                                                               | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 32x70x100 |
| 800001238               | 50        | 32 | 630  | 4                                                               | 4 | 4 | 3 | 4 | 2  | 3  | 2  | 1  | -   | 32x70x100 |
| 800001239               | 50        | 32 | 800  | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 2  | -   | 32x70x100 |
| 800001240               | 50        | 32 | 900  | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 3  | -   | 32x70x100 |
| 800001241               | 50        | 32 | 1000 | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 4  | -   | 32x70x100 |
| 800001242               | 50        | 40 | 400  | 2                                                               | 1 | 2 | 2 | 3 | 3  | 3  | -  | -  | -   | 40x70x100 |
| 800001243               | 50        | 40 | 500  | 2                                                               | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 40x70x100 |
| 800001244               | 50        | 40 | 630  | 4                                                               | 4 | 4 | 3 | 4 | 2  | 3  | 2  | 1  | -   | 40x70x100 |
| 800001245               | 50        | 40 | 800  | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 2  | -   | 40x70x100 |
| 800001246               | 50        | 40 | 900  | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 3  | -   | 40x70x100 |
| 800001247               | 50        | 40 | 1000 | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 4  | -   | 40x70x100 |
| 800001248               | 50        | 50 | 400  | 2                                                               | 1 | 2 | 2 | 3 | 3  | 3  | -  | -  | -   | 50x86x100 |
| 800001249               | 50        | 50 | 500  | 2                                                               | 1 | 2 | 2 | 4 | 3  | 2  | 2  | -  | -   | 50x86x100 |
| 800001250               | 50        | 50 | 630  | 4                                                               | 4 | 4 | 3 | 4 | 2  | 3  | 2  | 1  | -   | 50x86x100 |
| 800001251               | 50        | 50 | 800  | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 2  | -   | 50x86x100 |
| 800001252               | 50        | 50 | 900  | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 3  | -   | 50x86x100 |
| 800001253               | 50        | 50 | 1000 | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 4  | -   | 50x86x100 |
| 800001254               | 50        | 60 | 630  | 4                                                               | 4 | 4 | 3 | 4 | 2  | 3  | 2  | 1  | -   | 60x86x100 |
| 800001255               | 50        | 60 | 800  | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 2  | -   | 60x86x100 |
| 800001256               | 50        | 60 | 900  | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 3  | -   | 60x86x100 |
| 800001257               | 50        | 60 | 1000 | 4                                                               | 4 | 4 | 3 | 2 | 2  | 4  | 3  | 4  | -   | 60x86x100 |

\* Konushülse \*Conical sleeve

## 7188

- Fräsdorne
- Long milling machine arbors

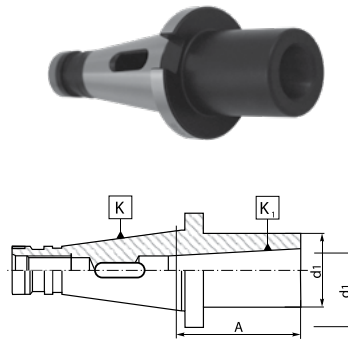


| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A   | d <sub>1</sub> | Abb.<br>Fig. |
|-------------------------|-----------|----------------------------------------|-----|----------------|--------------|
|                         |           |                                        |     |                |              |
| 800000177               | 30        | 1                                      | 50  | 25             | 1            |
| 800000178               | 30        | 2*                                     | 50  | 32             | 1            |
| 800000179               | 30        | 3*                                     | 72  | 40             | 1            |
| 800000180               | 40        | 1                                      | 50  | 25             | 1            |
| 800000181               | 40        | 1                                      | 92  | 25             | 2            |
| 800000182               | 40        | 2                                      | 50  | 32             | 1            |
| 800000183               | 40        | 2                                      | 109 | 32             | 2            |
| 800000184               | 40        | 3*                                     | 65  | 40             | 1            |
| 800000185               | 40        | 3*                                     | 129 | 40             | 2            |
| 800000186               | 40        | 4*                                     | 95  | 48             | 1            |
| 800000187               | 40        | 4*                                     | 152 | 48             | 2            |
| 800000188               | 50        | 1                                      | 45  | 25             | 1            |
| 800000189               | 50        | 1                                      | 96  | 25             | 2            |
| 800000190               | 50        | 2                                      | 60  | 32             | 1            |
| 800000191               | 50        | 2                                      | 113 | 32             | 2            |
| 800000192               | 50        | 3                                      | 65  | 40             | 1            |
| 800000193               | 50        | 3                                      | 133 | 40             | 2            |
| 800000194               | 50        | 4                                      | 70  | 48             | 1            |
| 800000195               | 50        | 4                                      | 163 | 48             | 2            |
| 800000196               | 50        | 5*                                     | 105 | 63             | 1            |
| 800000197               | 50        | 5*                                     | 193 | 63             | 2            |

\* nur für Werkzeuge mit Morse Kegel und Austreiblappen nach DIN 228-B  
\* only for tools with Morse taper and tang DIN 228-B shank

## 1679

- Adapter für Werkzeuge mit MK-Schaft
- Combination Morse taper adapters for tools with drawbar thread or tang



| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub> MK | A   | d <sub>1</sub> | Abb.<br>Fig. |
|-------------------------|-----------|-------------------|-----|----------------|--------------|
|                         |           |                   |     |                |              |
| 800000198               | 30        | 1                 | 50  | 25             | 1            |
| 800000199               | 30        | 2*                | 50  | 32             | 1            |
| 800000200               | 30        | 3*                | 72  | 40             | 1            |
| 800000201               | 40        | 1                 | 50  | 25             | 1            |
| 800000202               | 40        | 1                 | 92  | 25             | 2            |
| 800000203               | 40        | 2                 | 50  | 32             | 1            |
| 800000204               | 40        | 2                 | 109 | 32             | 2            |
| 800000205               | 40        | 3*                | 65  | 40             | 1            |
| 800000206               | 40        | 3*                | 129 | 40             | 2            |
| 800000207               | 40        | 4*                | 95  | 48             | 1            |
| 800000208               | 40        | 4*                | 160 | 48             | 2            |

\* nur für Werkzeuge mit Morse Kegel und Austreiblappen nach DIN 228-B  
\* only for tools with Morse taper and tang DIN 228-B shank

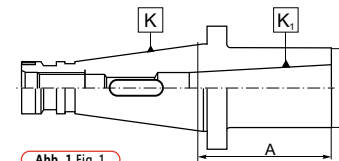


Abb. 1 Fig. 1

## 1679 QC

- Adapter für Werkzeuge mit MK-Schaft - Schnellwechselsystem
- Combination Morse taper adapters for tools with drawbar thread or tang - quick change version

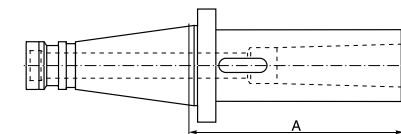
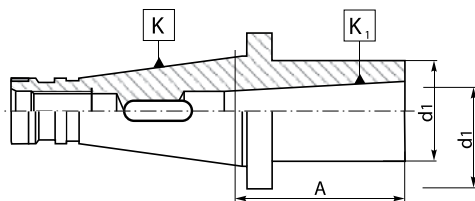


Abb. 2 Fig. 2

## 1657

- Adapter für Werkzeuge mit MK-Schaft und Austreibblappen DIN 228-B
- Morse taper adapters for tools with tang



| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub> MK<br>K1 MT | A   | d <sub>1</sub> |
|-------------------------|-----------|----------------------------|-----|----------------|
| 800000113               | 30        | 1                          | 50  | 25             |
| 800000114               | 30        | 2                          | 57  | 32             |
| 800000115               | 30        | 3                          | 72  | 40             |
| 800000116               | 40        | 1                          | 50  | 25             |
| 800000117               | 40        | 2                          | 50  | 32             |
| 800000118               | 40        | 3                          | 65  | 40             |
| 800000119               | 40        | 4                          | 95  | 48             |
| 800000120               | 40        | 5                          | 170 | 63             |
| 800000121               | 50        | 2                          | 23  | 32             |
| 800000122               | 50        | 3                          | 33  | 40             |
| 800000123               | 50        | 4                          | 53  | 48             |
| 800000124               | 50        | 5                          | 86  | 63             |

## 1676

- Adapter für MK-Werkzeuge DIN 228-A
- Morse taper adapters for tools with drawbar thread

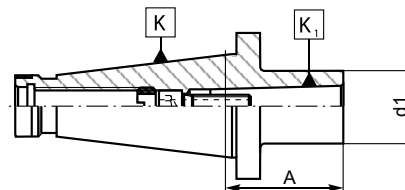


Abb. 1 Fig. 1

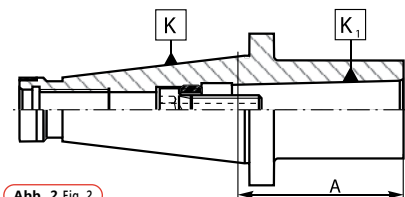


Abb. 2 Fig. 2

| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub> MK<br>K1 MT | A   | d <sub>1</sub> | Abb.<br>Fig. |          |
|-------------------------|-----------|----------------------------|-----|----------------|--------------|----------|
| 800000165               | 30        | 1                          | 50  | 25             | 1            | U-2369/0 |
| 800000166               | 30        | 2                          | 50  | 32             | 2            | W-1092/0 |
| 800000167               | 30        | 3                          | 78  | 40             | 2            | U-7790/0 |
| 800000168               | 40        | 1                          | 50  | 25             | 1            | W-1091/0 |
| 800000169               | 40        | 2                          | 50  | 32             | 1            | W-1092/0 |
| 800000170               | 40        | 3                          | 65  | 40             | 2            | W-1093/0 |
| 800000171               | 40        | 4                          | 95  | 48             | 2            | W-1094/0 |
| 800000172               | 50        | 1                          | 45  | 25             | 1            | W-1091/0 |
| 800000173               | 50        | 2                          | 60  | 32             | 1            | W-1095/0 |
| 800000174               | 50        | 3                          | 65  | 40             | 1            | W-1096/0 |
| 800000175               | 50        | 4                          | 65  | 48             | 1            | W-1097/0 |
| 800000176               | 50        | 5                          | 120 | 63             | 2            | W-1098/0 |

## 1699

- Reduzieraufnahme von SK50:SK40
- Reduction adapters for 7:24 tapers

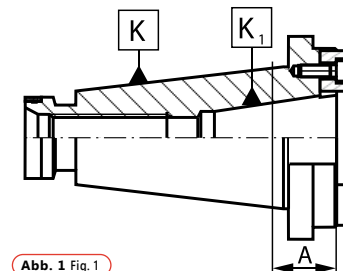


Abb. 1 Fig. 1

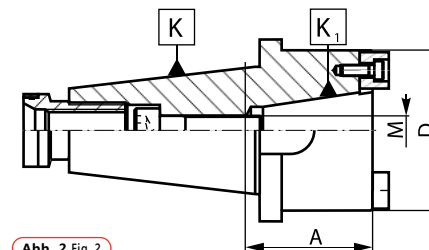


Abb. 2 Fig. 2

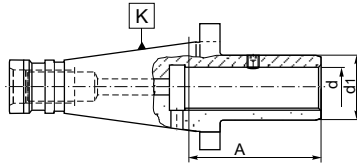
| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub><br>7:24 | A  | Abb.<br>Fig. | D  | M   |          |
|-------------------------|-----------|------------------------|----|--------------|----|-----|----------|
| 800000285               | 50        | 40                     | 27 | 1            | 88 | M16 | U-6227/0 |
| 800000286               | 50        | 40                     | 65 | 2            | 88 | M16 | U-6227/0 |





## 1616

- Werkzeugaufnahme für Werkzeuge mit Zylinderschaft
- Adjustable adapter holders DIN 6327

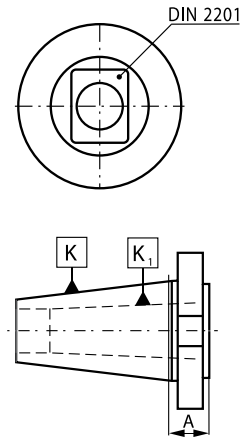


| Artikel Nr.<br>Code No. | K<br>7:24 | d  | d <sub>1</sub> | A   |          |
|-------------------------|-----------|----|----------------|-----|----------|
| 800000084               | 40        | 16 | 25             | 60  | U-1997/0 |
| 800000085               | 40        | 20 | 32             | 60  | U-1997/0 |
| 800000086               | 40        | 28 | 40             | 100 | U-7381/0 |
| 800000087               | 40        | 36 | 50             | 120 | U-7381/0 |
| 800000088               | 50        | 16 | 25             | 60  | U-1997/0 |
| 800000089               | 50        | 20 | 32             | 60  | U-1997/0 |
| 800000090               | 50        | 28 | 40             | 100 | U-7381/0 |
| 800000091               | 50        | 36 | 50             | 100 | U-7381/0 |
| 800000092               | 50        | 48 | 67             | 100 | U-7382/0 |



## 1653

- Adapter für Morsekegel DIN 228-A
- Morse taper adapters for tools with drawbar thread

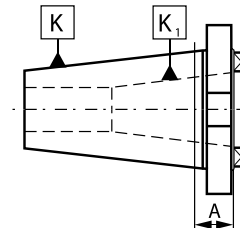


| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A  |
|-------------------------|-----------|----------------------------------------|----|
| 800000096               | 40        | 3                                      | 38 |
| 800000097               | 40        | 4                                      | 61 |
| 800000098               | 50        | 3                                      | 16 |
| 800000099               | 50        | 4                                      | 22 |
| 800000100               | 50        | 5                                      | 51 |



## 1650

- Adapter für SK-Werkzeuge DIN 2080
- Reduction adapters for DIN 2080 tapers

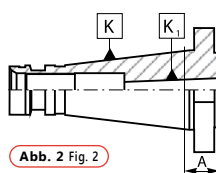
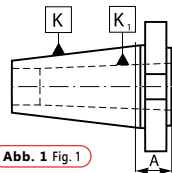


| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub><br>7:24 | A    |
|-------------------------|-----------|------------------------|------|
| 800000093               | 40        | 30                     | 13,0 |
| 800000094               | 50        | 30                     | 15,9 |
| 800000095               | 50        | 40                     | 15,9 |



## 1655

- Adapter für Werkzeuge mit MK-Schaft
- Morse taper adapters for tools with drawbar thread



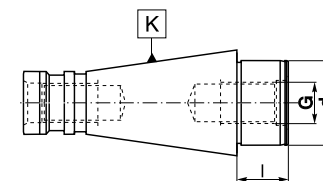
| Artikel Nr.<br>Code No. | K<br>7:24 | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A  | Abb.<br>Fig. |
|-------------------------|-----------|----------------------------------------|----|--------------|
| 800000101               | 30        | 2                                      | 18 | 1            |
| 800000102               | 30        | 3                                      | 72 | 1            |
| 800000103               | 40        | 1                                      | 14 | 2            |
| 800000104               | 40        | 2                                      | 14 | 1            |
| 800000105               | 40        | 3                                      | 14 | 1            |
| 800000106               | 40        | 4                                      | 43 | 1            |
| 800000107               | 40        | 4                                      | 67 | 1            |
| 800000108               | 50        | 1                                      | 17 | 2            |
| 800000109               | 50        | 2                                      | 21 | 1            |
| 800000110               | 50        | 3                                      | 21 | 1            |
| 800000111               | 50        | 4                                      | 21 | 1            |
| 800000112               | 50        | 5                                      | 65 | 1            |

| Artikel Nr.<br>Code No. | K<br>7:24 | d  | l  | G   |
|-------------------------|-----------|----|----|-----|
| 800001485               | 40        | 40 | 30 | M20 |
| 800001486               | 40        | 40 | 40 | --- |
| 800001487               | 40        | 50 | 29 | M24 |
| 800001488               | 50        | 40 | 30 | M20 |
| 800001489               | 50        | 50 | 30 | M24 |
| 800001490               | 50        | 50 | 40 | --- |
| 800001491               | 50        | 60 | 40 | M30 |
| 800001492               | 50        | 60 | 48 | --- |
| 800001493               | 60        | 60 | 40 | --- |
| 800001494               | 60        | 60 | 48 | --- |



## 7350

- Zentrieraufnahme
- Centering plug holders



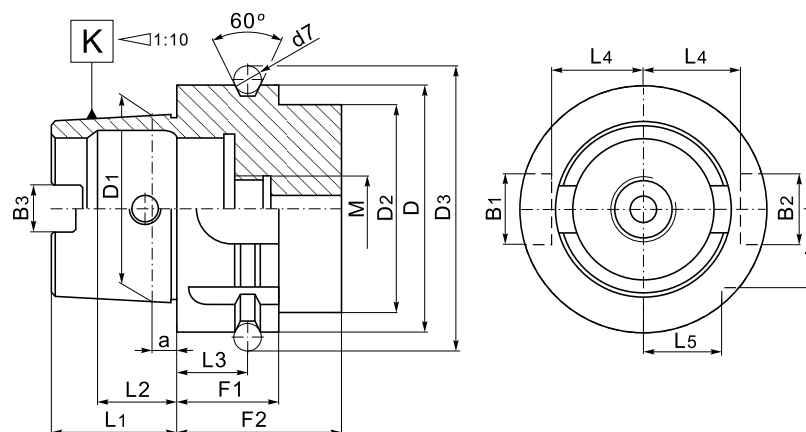
## DIN 69893-A

Standardmerkmale der Werkzeuge:

- Hergestellt aus Chrom Mangan Stahl
- Einsatzgehärtet auf eine Tiefe von 0,7mm
- Gehärtet und präzisionsgeschliffen
- Oberflächenhärte HRC 58±2
- Konuswinkel: Toleranz AT3
- Wuchtgüte G 6,3/15 000 U/min.  
(andere Wuchtgüten auf Anfrage)

Standard features of the tools:

- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm
- Hardened and precision ground
- Surface hardness HRC 58±2
- Taper angle: tolerance AT3
- Balanced in grade G 6,3/15 000 rpm  
(A fine balance is made on request)



| K HSK-A | D   | D <sub>1</sub> | D <sub>2 max</sub> | D <sub>3</sub> | B <sub>1</sub> | B <sub>2</sub> | B <sub>3</sub> | a   | d <sub>7</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | L <sub>5</sub> | F <sub>1</sub> | F <sub>2</sub> | M       |
|---------|-----|----------------|--------------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|
| 63      | 63  | 48             | 53                 | 72,3           | 18             | 16             | 12,54          | 6,3 | 7              | 32             | 18,13          | 18             | 26,5           | 20             | 26             | 42             | M18x1   |
| 100     | 100 | 75             | 85                 | 109,75         | 22             | 20             | 20,02          | 10  | 7              | 50             | 28,56          | 20             | 44             | 31,5           | 29             | 45             | M24x1,5 |





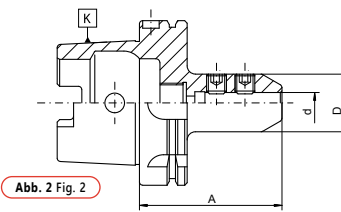
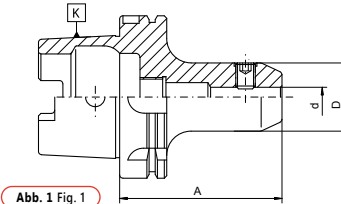
| Artikel Nr. | K HSK-A | d  | A   | D  |  | Abb. |
|-------------|---------|----|-----|----|-----------------------------------------------------------------------------------|------|
| Code No.    |         |    |     |    |                                                                                   | Fig. |
| 800002719   | 63      | 6  | 65  | 25 | U-4131/0                                                                          | 1    |
| 800003456   | 63      | 6  | 120 | 25 | U-4131/0                                                                          | 1    |
| 800003457   | 63      | 6  | 160 | 25 | U-4131/0                                                                          | 1    |
| 800002720   | 63      | 8  | 65  | 28 | U-4132/0                                                                          | 1    |
| 800003458   | 63      | 8  | 120 | 28 | U-4132/0                                                                          | 1    |
| 800003459   | 63      | 8  | 160 | 28 | U-4132/0                                                                          | 1    |
| 800002721   | 63      | 10 | 65  | 35 | U-4133/0                                                                          | 1    |
| 800003460   | 63      | 10 | 120 | 35 | U-4133/0                                                                          | 1    |
| 800003461   | 63      | 10 | 160 | 35 | U-4133/0                                                                          | 1    |
| 800002722   | 63      | 12 | 80  | 42 | U-4134/0                                                                          | 1    |
| 800003462   | 63      | 12 | 120 | 42 | U-4134/0                                                                          | 1    |
| 800003463   | 63      | 14 | 80  | 44 | U-4134/0                                                                          | 1    |
| 800003464   | 63      | 14 | 120 | 44 | U-4134/0                                                                          | 1    |
| 800002723   | 63      | 16 | 80  | 48 | U-4135/0                                                                          | 1    |
| 800003465   | 63      | 16 | 120 | 48 | U-4135/0                                                                          | 1    |
| 800003466   | 63      | 18 | 80  | 50 | U-4135/0                                                                          | 1    |
| 800002724   | 63      | 20 | 80  | 52 | U-4136/0                                                                          | 1    |
| 800002725   | 63      | 25 | 110 | 63 | 2 x U-4137/0                                                                      | 2    |
| 800002726   | 63      | 32 | 110 | 72 | 2 x U-4138/0                                                                      | 2    |
| 800006288   | 100     | 6  | 80  | 25 | U-4131/0                                                                          | 1    |
| 800006289   | 100     | 8  | 80  | 28 | U-4132/0                                                                          | 1    |
| 800006290   | 100     | 10 | 80  | 35 | U-4133/0                                                                          | 1    |
| 800006291   | 100     | 12 | 80  | 42 | U-4134/0                                                                          | 1    |
| 800006292   | 100     | 14 | 80  | 44 | U-4134/0                                                                          | 1    |
| 800006293   | 100     | 16 | 100 | 48 | U-4135/0                                                                          | 1    |
| 800006294   | 100     | 18 | 100 | 50 | U-4135/0                                                                          | 1    |
| 800006295   | 100     | 20 | 100 | 52 | U-4136/0                                                                          | 1    |
| 800006296   | 100     | 25 | 100 | 63 | 2 x U-4137/0                                                                      | 2    |
| 800006297   | 100     | 32 | 100 | 72 | 2 x U-4138/0                                                                      | 2    |
| 800006298   | 100     | 40 | 100 | 80 | 2 x U-4138/0                                                                      | 2    |



## 7885

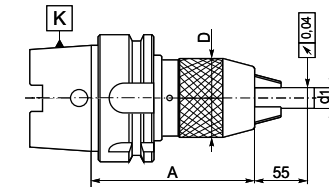
■ Weldon Aufnahme für Werkzeuge mit seitlicher Mitnahmeffläche nach DIN 1835-B

■ Weldon type end mill holders DIN 1835-B



## 5391

■ Schnellspann-Bohrfutter mit HSK-Aufnahme  
■ Keyless drill chucks



| Artikel Nr. | K HSK-A | d <sub>i</sub> | A   | D  |
|-------------|---------|----------------|-----|----|
| Code No.    |         |                |     |    |
| 800000902   | 63      | 1-13           | 150 | 50 |
| 800000903   | 63      | 3-16           | 157 | 57 |

## 7886

■ Whistle-Notch Aufnahme für Werkzeuge mit Zylinderschaft und geneigter Spannfläche nach DIN 1835-E

■ Whistle-notch type end mill holders DIN 1835-E

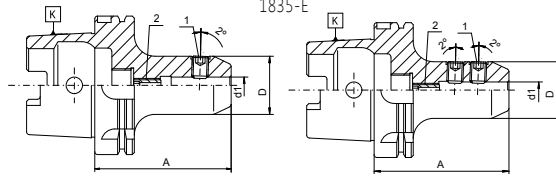


Abb. 2 Fig. 2

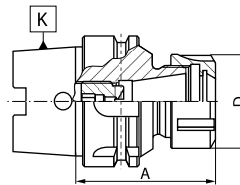
| Artikel Nr. | K     | d  | A   | D  |  |  | Abb. |
|-------------|-------|----|-----|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|
| Code No.    | HSK-A |    |     |    | Pos.1                                                                               | Pos.2                                                                               | Fig. |
| 800006299   | 100   | 6  | 90  | 25 | U-4131/0                                                                            | U-1599/0                                                                            | 1    |
| 800006300   | 100   | 8  | 90  | 28 | U-4132/0                                                                            | U-6317/0                                                                            | 1    |
| 800006301   | 100   | 10 | 90  | 35 | U-4133/0                                                                            | U-0293/0                                                                            | 1    |
| 800006302   | 100   | 12 | 100 | 42 | U-4134/0                                                                            | U-0757/0                                                                            | 1    |
| 800006303   | 100   | 14 | 100 | 44 | U-4135/0                                                                            | U-6318/0                                                                            | 1    |
| 800006304   | 100   | 16 | 100 | 48 | U-4135/0                                                                            | U-6318/0                                                                            | 1    |
| 800006305   | 100   | 18 | 100 | 50 | U-4136/0                                                                            | U-6318/0                                                                            | 1    |
| 800006306   | 100   | 20 | 110 | 52 | U-4136/0                                                                            | U-6318/0                                                                            | 1    |
| 800006307   | 100   | 25 | 120 | 65 | 2 x U-4137/0                                                                        | U-6318/0                                                                            | 2    |
| 800006308   | 100   | 32 | 120 | 72 | 2 x U-4138/0                                                                        | U-6318/0                                                                            | 2    |
| 800006309   | 100   | 40 | 120 | 80 | 2 x U-4138/0                                                                        | U-6318/0                                                                            | 2    |



## 7887

■ ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft

■ Collet chucks for ER collets (DIN 6499)

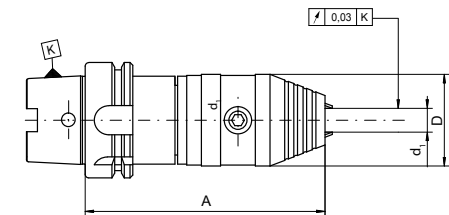


| Artikel Nr. | K HSK-A | Spannzangen | A   | Spannbereich   | D  |           |          |
|-------------|---------|-------------|-----|----------------|----|-----------|----------|
| Code No.    |         | Collet size |     | Clamping range |    |           |          |
| 800003467   | 63      | ER11        | 63  | 2-7            | 19 | 9833-11D  | M8x1x8LH |
| 800003468   | 63      | ER11        | 100 | 2-7            | 19 | 9833-11D  | M8x1x8LH |
| 800003469   | 63      | ER16        | 90  | 2-10           | 32 | 9833-16ES | M10x11LH |
| 800003470   | 63      | ER16        | 100 | 2-10           | 32 | 9833-16ES | M10x11LH |
| 800003471   | 63      | ER16        | 120 | 2-10           | 32 | 9833-16ES | M10x11LH |
| 800003472   | 63      | ER16        | 160 | 2-10           | 32 | 9833-16ES | M10x11LH |
| 800002727   | 63      | ER25        | 80  | 2-16           | 42 | 9833-25ES | M8x16    |
| 800003473   | 63      | ER25        | 160 | 2-16           | 42 | 9833-25ES | M8x16    |
| 800002728   | 63      | ER32        | 100 | 2-20           | 50 | 9833-32ES | M10x20   |
| 800003474   | 63      | ER32        | 160 | 2-20           | 50 | 9833-32ES | M10x20   |
| 800002729   | 63      | ER40        | 120 | 2-26           | 63 | 9833-40ES | M12x30   |
| 800006285   | 100     | ER25        | 100 | 2-16           | 42 | 9833-25ES | M8x16    |
| 800006286   | 100     | ER32        | 100 | 2-20           | 50 | 9833-32ES | M10x20   |
| 800006287   | 100     | ER40        | 100 | 2-26           | 63 | 9833-40ES | M12x30   |



## 5392

■ Bohrfutter links und rechts Rotation - Montage mit einem Schraubenschlüssel  
■ Drill chucks for clockwise and counter clockwise rotations

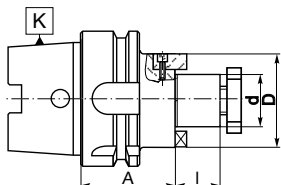


| Artikel Nr. | K HSK-A | d <sub>i</sub> | Spannkraft     | H   | D  |
|-------------|---------|----------------|----------------|-----|----|
| Code No.    |         |                | Clamping force |     |    |
| 800006581   | 63      | 1-13           | 40Nm           | 163 | 50 |
| 800006582   | 63      | 3-16           | 45Nm           | 163 | 50 |
| 800006583   | 100     | 1-13           | 40Nm           | 170 | 50 |
| 800006584   | 100     | 3-16           | 45Nm           | 170 | 50 |



## 7888

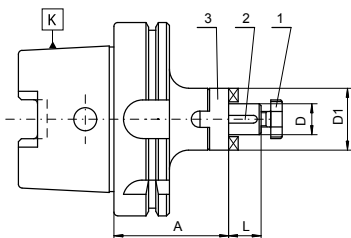
- Messerkopfaufnahme mit Mitnahme DIN 138
- Shell mill holders



| Artikel Nr.<br>Code No. | K HSK-A | d  | A   | L  | D  |          |          |
|-------------------------|---------|----|-----|----|----|----------|----------|
| 800002730               | 63      | 16 | 45  | 17 | 32 | U-0620/0 | S-2117/0 |
| 800003400               | 63      | 16 | 80  | 17 | 32 | U-0620/0 | S-2117/0 |
| 800003401               | 63      | 16 | 145 | 17 | 32 | U-0620/0 | S-2117/0 |
| 800002731               | 63      | 22 | 50  | 19 | 40 | U-0621/0 | S-2121/0 |
| 800003402               | 63      | 22 | 80  | 19 | 40 | U-0621/0 | S-2121/0 |
| 800003403               | 63      | 22 | 150 | 19 | 40 | U-0621/0 | S-2121/0 |
| 800002732               | 63      | 27 | 60  | 21 | 48 | U-0622/0 | S-2111/0 |
| 800003404               | 63      | 27 | 155 | 21 | 48 | U-0622/0 | S-2111/0 |
| 800002733               | 63      | 32 | 60  | 24 | 58 | U-0623/0 | W-3649/0 |
| 800002734               | 63      | 40 | 60  | 27 | 70 | U-0623/0 | S-2114/0 |
| 800006325               | 100     | 22 | 50  | 19 | 40 | U-0621/0 | S-2121/0 |
| 800006326               | 100     | 27 | 50  | 21 | 48 | U-0622/0 | S-2111/0 |
| 800006327               | 100     | 32 | 50  | 24 | 58 | U-0623/0 | W-3649/0 |
| 800006328               | 100     | 40 | 60  | 27 | 70 | U-0624/0 | S-2124/0 |
| 800006329               | 100     | 50 | 70  | 30 | 90 | U-0625/0 | U-5974/0 |

## 7889

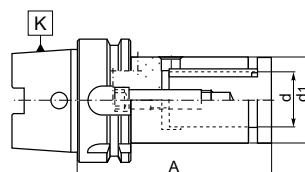
- Kombi-Fräseraufnahmen
- Combination shell mill holders



| Artikel Nr.<br>Code No. | K HSK-A | D  | A  | D <sub>1</sub> | L  |          |          |          |
|-------------------------|---------|----|----|----------------|----|----------|----------|----------|
|                         |         |    |    |                |    | Pos.1    | Pos.2    | Pos.3    |
| 800006320               | 100     | 16 | 60 | 32             | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800006321               | 100     | 22 | 60 | 40             | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800006322               | 100     | 27 | 60 | 48             | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800006323               | 100     | 32 | 60 | 58             | 24 | U-0623/0 | U-1367/0 | U-6355/0 |
| 800006324               | 100     | 40 | 70 | 70             | 27 | U-0624/0 | U-1368/0 | U-1359/0 |

## 7872

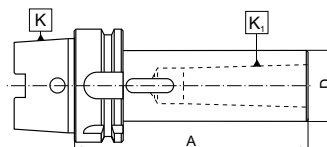
- Sägeblattaufnahme
- Milling arbors for disc milling cutters



| Artikel Nr.<br>Code No. | K HSK-A | d  | d <sub>1</sub> | A   |          |          |          |
|-------------------------|---------|----|----------------|-----|----------|----------|----------|
| 800003396               | 63      | 16 | 29             | 125 | W-4988/0 | U-6511/0 | U-6527/0 |
| 800003397               | 63      | 22 | 36             | 125 | W-4989/0 | U-6513/0 | U-6529/0 |
| 800003398               | 63      | 27 | 42             | 125 | W-4989/0 | U-6515/0 | U-6531/0 |
| 800003399               | 63      | 32 | 50             | 125 | W-4989/0 | U-6517/0 | U-6533/0 |

## 7890

- Adapter für Werkzeuge mit MK-Schaft und Austreiblappen DIN 228-B
- Morse taper adapters for tools with tang



| Artikel Nr.<br>Code No. | K HSK-A | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A   | B  |
|-------------------------|---------|----------------------------------------|-----|----|
| 800002735               | 63      | 1                                      | 100 | 25 |
| 800002736               | 63      | 2                                      | 120 | 32 |
| 800002737               | 63      | 3                                      | 140 | 40 |
| 800002738               | 63      | 4                                      | 160 | 48 |
| 800006310               | 100     | 1                                      | 110 | 25 |
| 800006311               | 100     | 2                                      | 120 | 32 |
| 800006312               | 100     | 3                                      | 150 | 40 |
| 800006313               | 100     | 4                                      | 170 | 48 |
| 800006314               | 100     | 5                                      | 200 | 63 |

## 7892

- Spindelhülsen für Morsekegel Werkzeuge mit Gewinde
- Morse taper adapters for tools with drawbar thread

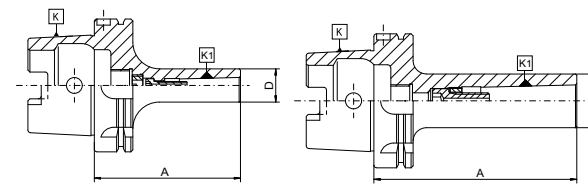


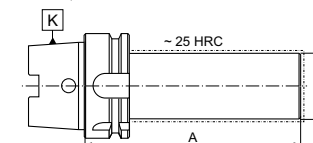
Abb. 1 Fig. 1

Abb. 2 Fig. 2

| Artikel Nr.<br>Code No. | K HSK-A | K <sub>1</sub> MK<br>K <sub>1</sub> MT | A   | D  |          | Abb.<br>Fig. |
|-------------------------|---------|----------------------------------------|-----|----|----------|--------------|
| 800006315               | 100     | 1                                      | 110 | 25 | W-1091/0 | 1            |
| 800006316               | 100     | 2                                      | 120 | 32 | W-1092/0 | 1            |
| 800006317               | 100     | 3                                      | 150 | 40 | W-1093/0 | 2            |
| 800006318               | 100     | 4                                      | 170 | 48 | W-1094/0 | 2            |
| 800006319               | 100     | 5                                      | 200 | 63 | C-0220/0 | 2            |

## 7891

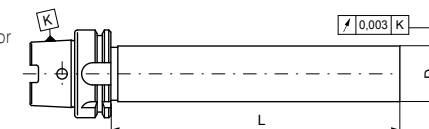
- Bohrstanzenrohring
- Machinable blank adapters



| Artikel Nr.<br>Code No. | K HSK-A | D  | A   |
|-------------------------|---------|----|-----|
| 800002739               | 63      | 63 | 150 |
| 800003405               | 63      | 80 | 250 |
| 800006330               | 100     | 97 | 250 |

## 2856

- Prüfdorn
- Control arbor



| Artikel Nr.<br>Code No. | K HSK-A | D  | L   |
|-------------------------|---------|----|-----|
| 800006696               | 63      | 40 | 300 |
| 800006697               | 100     | 50 | 300 |

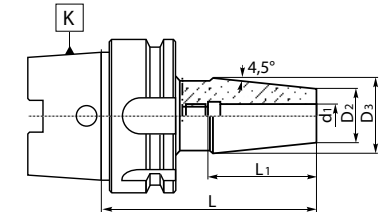


| Artikel Nr.<br>Code No. | K HSK-A | d <sub>1</sub> | L   | L <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> |
|-------------------------|---------|----------------|-----|----------------|----------------|----------------|
| 800006449               | 63      | 3              | 80  | 36             | 14             | 22             |
| 800006450               | 63      | 3              | 120 | 36             | 14             | 22             |
| 800006451               | 63      | 3              | 160 | 36             | 14             | 22             |
| 800006452               | 63      | 4              | 80  | 36             | 14             | 22             |
| 800006453               | 63      | 4              | 120 | 36             | 14             | 22             |
| 800006454               | 63      | 4              | 160 | 36             | 14             | 22             |
| 800006455               | 63      | 5              | 80  | 36             | 16             | 22             |
| 800006456               | 63      | 5              | 120 | 36             | 16             | 22             |
| 800006457               | 63      | 5              | 160 | 36             | 16             | 22             |
| 800006458               | 63      | 6              | 80  | 36             | 21             | 27             |
| 800006459               | 63      | 6              | 120 | 36             | 21             | 27             |
| 800006460               | 63      | 6              | 160 | 36             | 21             | 27             |
| 800006461               | 63      | 8              | 80  | 36             | 21             | 27             |
| 800006462               | 63      | 8              | 120 | 36             | 21             | 27             |
| 800006463               | 63      | 8              | 160 | 36             | 21             | 27             |
| 800006464               | 63      | 10             | 85  | 42             | 24             | 32             |
| 800006465               | 63      | 10             | 120 | 42             | 24             | 32             |
| 800006466               | 63      | 10             | 160 | 42             | 24             | 32             |
| 800006467               | 63      | 12             | 90  | 47             | 24             | 32             |
| 800006468               | 63      | 12             | 120 | 47             | 24             | 32             |
| 800006469               | 63      | 12             | 160 | 47             | 24             | 32             |
| 800006470               | 63      | 14             | 90  | 47             | 27             | 34             |
| 800006471               | 63      | 14             | 120 | 47             | 27             | 34             |
| 800006472               | 63      | 14             | 160 | 47             | 27             | 34             |
| 800006473               | 63      | 16             | 95  | 50             | 27             | 34             |
| 800006474               | 63      | 16             | 120 | 50             | 27             | 34             |
| 800006475               | 63      | 16             | 160 | 50             | 27             | 34             |

| Artikel Nr.<br>Code No. | K HSK-A | d <sub>1</sub> | L   | L <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> |
|-------------------------|---------|----------------|-----|----------------|----------------|----------------|
| 800006476               | 63      | 18             | 95  | 50             | 33             | 42             |
| 800006477               | 63      | 18             | 120 | 50             | 33             | 42             |
| 800006478               | 63      | 18             | 160 | 50             | 33             | 42             |
| 800006479               | 63      | 20             | 100 | 52             | 33             | 42             |
| 800006480               | 63      | 20             | 120 | 52             | 33             | 42             |
| 800006481               | 63      | 20             | 160 | 52             | 33             | 42             |
| 800006482               | 63      | 25             | 115 | 58             | 44             | 53             |
| 800006483               | 63      | 25             | 120 | 58             | 44             | 53             |
| 800006484               | 63      | 25             | 160 | 58             | 44             | 53             |
| 800006485               | 63      | 32             | 115 | 58             | 44             | 53             |
| 800006486               | 100     | 6              | 85  | 36             | 21             | 27             |
| 800006487               | 100     | 6              | 120 | 36             | 21             | 27             |
| 800006488               | 100     | 6              | 160 | 36             | 21             | 27             |
| 800006489               | 100     | 8              | 85  | 36             | 21             | 27             |
| 800006490               | 100     | 8              | 120 | 36             | 21             | 27             |
| 800006491               | 100     | 8              | 160 | 36             | 21             | 27             |
| 800006492               | 100     | 10             | 90  | 42             | 24             | 32             |
| 800006493               | 100     | 10             | 120 | 42             | 24             | 32             |
| 800006494               | 100     | 10             | 160 | 42             | 24             | 32             |
| 800006495               | 100     | 12             | 95  | 47             | 24             | 32             |
| 800006496               | 100     | 12             | 120 | 47             | 24             | 32             |
| 800006497               | 100     | 12             | 160 | 47             | 24             | 32             |
| 800006498               | 100     | 14             | 95  | 47             | 27             | 34             |
| 800006499               | 100     | 14             | 120 | 47             | 27             | 34             |
| 800006500               | 100     | 14             | 160 | 47             | 27             | 34             |
| 800006501               | 100     | 16             | 100 | 50             | 27             | 34             |
| 800006502               | 100     | 16             | 120 | 50             | 27             | 34             |


**7634**

- Schrumpfaufnahmen
- Shrink fit holders

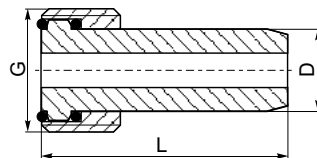


\* Geeignet für HSS- und Vollhartmetall-Werkzeuge mit Zylinderschaft (Toleranz h6)  
 \* Suitable for HSS and solid carbide tools with cylindrical shank (h6 tolerance)

| Artikel Nr.<br>Code No. | K HSK-A | d <sub>1</sub> | L   | L <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> |
|-------------------------|---------|----------------|-----|----------------|----------------|----------------|
| 800006503               | 100     | 16             | 160 | 50             | 27             | 34             |
| 800006504               | 100     | 18             | 100 | 50             | 33             | 42             |
| 800006505               | 100     | 18             | 120 | 50             | 33             | 42             |
| 800006506               | 100     | 18             | 160 | 50             | 33             | 42             |
| 800006507               | 100     | 20             | 105 | 52             | 33             | 42             |
| 800006508               | 100     | 20             | 120 | 52             | 33             | 42             |
| 800006509               | 100     | 20             | 160 | 52             | 33             | 42             |
| 800006510               | 100     | 25             | 115 | 58             | 44             | 53             |
| 800006511               | 100     | 25             | 160 | 58             | 44             | 53             |
| 800006512               | 100     | 32             | 120 | 58             | 44             | 53             |
| 800006513               | 100     | 32             | 160 | 58             | 44             | 53             |


**1313**

- Kühlmittelübergabe
- Coolant tubes



| Artikel Nr.<br>Code No. | K HSK-A | G       | L    | D  |
|-------------------------|---------|---------|------|----|
| 800003721               | 63      | M24x1,5 | 36,5 | 12 |
| 800006824               | 100     | M24x1,5 | 44   | 16 |



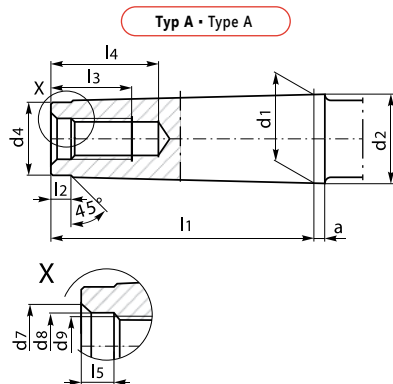
## DIN 228

Standardmerkmale der Werkzeuge:

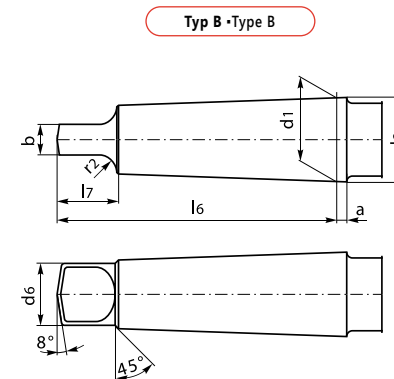
- Hergestellt aus Chrom Mangan Stahl
- Einsatzgehärtet auf eine Tiefe von 0,7mm
- Gehärtet und präzisionsgeschliffen
- Oberflächenhärte HRC 58±2
- Konuswinkel: Toleranz AT3

Standard features of the tools:

- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm
- Hardened and precision ground
- Surface hardness HRC 58±2
- Taper angle: tolerance AT3



| K MK/MT | a   | b    | d <sub>1</sub> | d <sub>2</sub> | d <sub>4</sub> | d <sub>6</sub> | d <sub>7</sub> | d <sub>8</sub> | d <sub>9</sub> |
|---------|-----|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 0       | 3   | 3.9  | 9,045          | 9,2            | 6              | 6              | —              | —              | —              |
| 1       | 3,5 | 5.2  | 12,065         | 12,2           | 9              | 8,7            | 8,5            | 6,4            | M6             |
| 2       | 5   | 6.3  | 17,780         | 18             | 14             | 13,5           | 13,2           | 10,5           | M10            |
| 3       | 5   | 7.9  | 23,825         | 24,1           | 19             | 18,5           | 16             | 13             | M12            |
| 4       | 6,5 | 11.9 | 31,267         | 31,6           | 25             | 24,5           | 21,5           | 17             | M16            |
| 5       | 6,5 | 15.9 | 44,399         | 44,7           | 35,7           | 35,7           | 26             | 21             | M20            |
| 6       | 8   | 19.0 | 63,348         | 63,8           | 51             | 51             | 32             | 25             | M24            |
| 7       | 9,5 | 28,5 | 83,058         | 83,5           | 66             | 66,8           | —              | —              | —              |

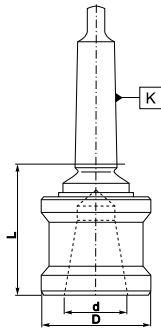


| K MK/MT | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>4</sub> | l <sub>5</sub> | l <sub>6</sub> | l <sub>7</sub> | r <sub>2</sub> | a/2      |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|
| 0       | 50             | 4              | —              | —              | —              | 56,5           | 10,5           | 4              | 1°29'27" |
| 1       | 53,5           | 5              | 16             | 22             | 4              | 62             | 13,5           | 5              | 1°25'43" |
| 2       | 64             | 5              | 24             | 31,5           | 5              | 75             | 16             | 6              | 1°25'50" |
| 3       | 81             | 7              | 24             | 33,5           | 5,5            | 94             | 20             | 7              | 1°26'16" |
| 4       | 102,5          | 9              | 32             | 42,5           | 8,2            | 117,5          | 24             | 8              | 1°29'15" |
| 5       | 129,5          | 10             | 40             | 52,5           | 10             | 149,5          | 29             | 10             | 1°30'26" |
| 6       | 182            | 16             | 47             | 61,5           | 11,5           | 210            | 40             | 13             | 1°29'36" |
| 7       | 250,5          | 18             | —              | —              | —              | 286            | 54             | 19             | 1°29'22" |




**1721**

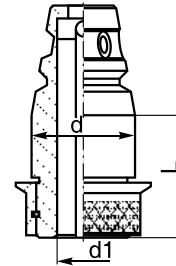
- Schnellwechselhalter
- Quick change holders



| Artikel Nr. | Grösse | K MK              | d    | D  | L     |
|-------------|--------|-------------------|------|----|-------|
| Code No.    | Size   | K <sub>1</sub> MT |      |    |       |
| 800000287   | 2-40   | 2                 | 40,0 | 65 | 82,5  |
| 800000288   | 3-40   | 3                 | 40,0 | 65 | 81,0  |
| 800000289   | 4-40   | 4                 | 40,0 | 65 | 80,0  |
| 800000290   | 4-51   | 4                 | 51,5 | 83 | 102,0 |
| 800000291   | 5-51   | 5                 | 51,5 | 83 | 98,5  |


**5217**

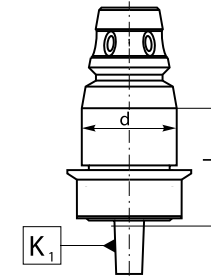
- Schnellwechseleinsätze für Werkzeughalter mit axialer Verstellung
- Quick change adapters for adjustable holders



| Artikel Nr. | Grösse | d    | d <sub>1</sub> | L  |
|-------------|--------|------|----------------|----|
| Code No.    | Size   |      |                |    |
| 800000738   | 40-20  | 40,0 | 20             | 54 |
| 800000739   | 51-28  | 51,5 | 28             | 55 |


**5366**

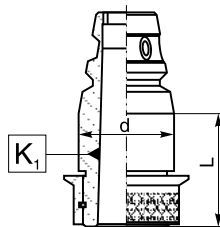
- Schnellwechseleinsätze für Bohrfutter
- Quick change adapters for drill chucks



| Artikel Nr. | Grösse | d    | K <sub>1</sub> DIN | L    |
|-------------|--------|------|--------------------|------|
| Code No.    | Size   |      |                    |      |
| 800000844   | 40-B12 | 40,0 | B12                | 32,5 |
| 800000845   | 40-B16 | 40,0 | B16                | 34,0 |
| 800000846   | 51-B16 | 51,5 | B16                | 39,0 |


**5216**

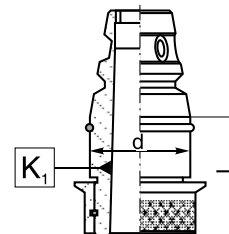
- Schnellwechseleinsätze für MK-Werkzeuge
- Quick change adapter for Morse tapers



| Artikel Nr. | Grösse | d    | K <sub>1</sub> MK | L  |
|-------------|--------|------|-------------------|----|
| Code No.    | Size   |      | K <sub>1</sub> MT |    |
| 800000731   | 40-1   | 40,0 | 1                 | 29 |
| 800000732   | 40-2   | 40,0 | 2                 | 29 |
| 800000733   | 40-3   | 40,0 | 3                 | 47 |
| 800000734   | 51-1   | 51,5 | 1                 | 34 |
| 800000735   | 51-2   | 51,5 | 2                 | 34 |
| 800000736   | 51-3   | 51,5 | 3                 | 34 |
| 800000737   | 51-4   | 51,5 | 4                 | 57 |


**5219**

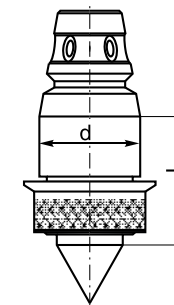
- Schnellwechseleinsätze für Reibahlen
- Quick change adapters for reamers



| Artikel Nr. | Grösse | d    | K <sub>1</sub> MK | L  |
|-------------|--------|------|-------------------|----|
| Code No.    | Size   |      | K <sub>1</sub> MT |    |
| 800000740   | 40-2   | 40,0 | 2                 | 29 |
| 800000741   | 40-3   | 40,0 | 3                 | 47 |
| 800000742   | 51-4   | 51,5 | 4                 | 57 |


**5367**

- Schnellwechseleinsätze mit Zentrierspitze
- Quick change adapters with centres



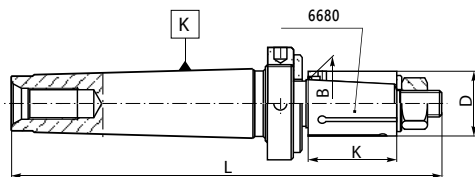
| Artikel Nr. | Grösse | d    | L  |
|-------------|--------|------|----|
| Code No.    | Size   |      |    |
| 800000847   | 40-60  | 40,0 | 61 |
| 800000848   | 51-60  | 51,5 | 66 |


 1  
2  
3  
4  
5  
6  
  
5367  
5219  
5216  
5366  
5217  
1721  
325



## 6610

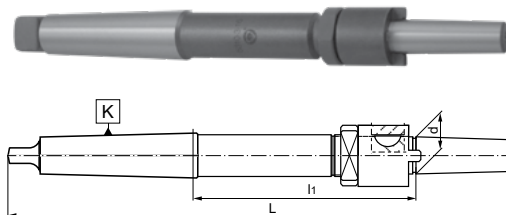
- Werkzeugaufnahme für Spannhülsen  
- Satz
- Lathe mandrels with spring collets  
- set



| Artikel Nr. | K MK | D     | L   | B    | K  |                    |
|-------------|------|-------|-----|------|----|--------------------|
| Code No.    | K MT |       |     |      |    |                    |
| 800000904   | 3    | 12-14 | 141 | 9,7  | 22 | 12; 13; 14         |
| 800000905   | 3    | 15-18 | 150 | 11,7 | 27 | 15; 16; 17; 18     |
| 800000906   | 3    | 19-22 | 160 | 14,7 | 32 | 19; 20; 21; 22     |
| 800000907   | 4    | 23-27 | 190 | 17,7 | 37 | 23; 24; 25; 26; 27 |
| 800000908   | 4    | 28-32 | 200 | 21,7 | 42 | 28; 30; 32         |
| 800000909   | 4    | 33-38 | 210 | 25,6 | 48 | 33; 34; 35; 36; 38 |
| 800000910   | 5    | 40-45 | 255 | 31,6 | 54 | 40; 42; 44; 45     |
| 800000911   | 5    | 46-52 | 265 | 37,6 | 60 | 46; 48; 50; 52     |
| 800000912   | 5    | 55-60 | 285 | 44,5 | 70 | 55; 58; 60         |
| 800000913   | 5    | 63-70 | 310 | 51,5 | 80 | 63; 65; 68; 70     |

## 5310

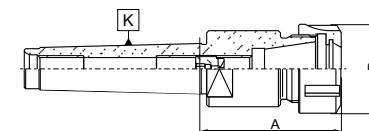
- Werkzeughalter für Aufsteckreibahlen
- Driver arbors for reamers



| Artikel Nr. | K MK | d  | L   | l <sub>1</sub> |          |          |          |
|-------------|------|----|-----|----------------|----------|----------|----------|
| Code No.    | K MT |    |     |                |          |          |          |
| 800000743   | 2    | 10 | 220 | 105,8          | S-0881/0 | S-0880/0 | U-0097/0 |
| 800000744   | 3    | 13 | 250 | 111,9          | S-0884/0 | S-0883/0 | U-0097/0 |
| 800000745   | 3    | 16 | 261 | 117,9          | S-0887/0 | S-0886/0 | U-0648/0 |
| 800000746   | 3    | 19 | 270 | 121,1          | S-0891/0 | S-0890/0 | U-0098/0 |
| 800000747   | 3    | 22 | 278 | 122,1          | S-0894/0 | S-0893/0 | U-0098/0 |
| 800000748   | 4    | 19 | 298 | 125,6          | S-0891/0 | S-0890/0 | U-0098/0 |
| 800000749   | 4    | 22 | 312 | 132,6          | S-0894/0 | S-0893/0 | U-0098/0 |
| 800000750   | 4    | 27 | 325 | 137,6          | S-0897/0 | S-0896/0 | S-0898/0 |
| 800000751   | 4    | 32 | 345 | 148,9          | S-0901/0 | S-0900/0 | U-0649/0 |
| 800000752   | 5    | 27 | 359 | 139,6          | S-0897/0 | S-0896/0 | S-0898/0 |
| 800000753   | 5    | 32 | 376 | 147,9          | S-0901/0 | S-0900/0 | U-0649/0 |
| 800000754   | 5    | 40 | 396 | 157,9          | S-0905/0 | S-0904/0 | U-0650/0 |
| 800000755   | 5    | 50 | 416 | 167,9          | S-0909/0 | S-0908/0 | U-0106/0 |

## 7711

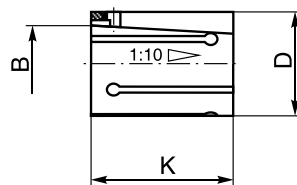
- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)



| Artikel Nr. | K MK | Spannzangen | A    | Spannbereich   | D  |                      |
|-------------|------|-------------|------|----------------|----|----------------------|
| Code No.    | K MT | Collet size |      | Clamping range |    |                      |
| 800002402   | 2    | ER16        | 43,5 | 2-10           | 32 | 9833-16 M10x11LH     |
| 800002403   | 2    | ER20        | 47,5 | 2-13           | 35 | 9833-20 M10x11LH     |
| 800005134   | 2    | ER25        | 57,0 | 2-16           | 42 | 9833-25 M10x11LH     |
| 800002404   | 2    | ER32        | 65,5 | 2-20           | 50 | 9833-32 M10x11LH     |
| 800002405   | 3    | ER16        | 43,5 | 2-10           | 32 | 9833-16 M12x1,5x14LH |
| 800002406   | 3    | ER20        | 45,5 | 2-13           | 35 | 9833-20 M12x1,5x14LH |
| 800002407   | 3    | ER25        | 68,0 | 2-16           | 42 | 9833-25 M12x1,5x14LH |
| 800002408   | 3    | ER32        | 73,5 | 2-20           | 50 | 9833-32 M12x1,5x14LH |
| 800005135   | 3    | ER40        | 85,0 | 2-26           | 63 | 9833-40 M12x1,5x14LH |
| 800002409   | 4    | ER25        | 54,5 | 2-16           | 42 | 9833-25 M18x1,5x19LH |
| 800002410   | 4    | ER32        | 84,0 | 2-20           | 50 | 9833-32 M18x1,5x19LH |
| 800003780   | 4    | ER40        | 80,0 | 2-26           | 63 | 9833-40 M18x1,5x19LH |
| 800002411   | 5    | ER32        | 65,5 | 2-20           | 50 | 9833-32 M22x1,5x24LH |
| 800002412   | 5    | ER40        | 67,5 | 2-26           | 63 | 9833-40 M22x1,5x24LH |

## 6680

- Spannhülsen
- Spring collets for 6610 mandrels



| Artikel Nr. | D  | B    | K  |
|-------------|----|------|----|
| Code No.    |    |      |    |
| 800003516   | 12 | 9,7  | 22 |
| 800003517   | 13 | 9,7  | 22 |
| 800003518   | 14 | 9,7  | 22 |
| 800003519   | 15 | 11,7 | 27 |
| 800003520   | 16 | 11,7 | 27 |
| 800003521   | 17 | 11,7 | 27 |
| 800003522   | 18 | 11,7 | 27 |
| 800003523   | 19 | 14,7 | 32 |
| 800003527   | 20 | 14,7 | 32 |
| 800003524   | 21 | 14,7 | 32 |
| 800003525   | 22 | 14,7 | 32 |
| 800003526   | 23 | 17,7 | 37 |
| 800003527   | 24 | 17,7 | 37 |
| 800003528   | 25 | 17,7 | 37 |
| 800003529   | 26 | 17,7 | 37 |
| 800003530   | 27 | 17,7 | 37 |
| 800003531   | 28 | 21,7 | 42 |
| 800003532   | 30 | 21,7 | 42 |
| 800003533   | 32 | 21,7 | 42 |
| 800003534   | 33 | 25,6 | 48 |

| Artikel Nr. | D  | B    | K  |
|-------------|----|------|----|
| Code No.    |    |      |    |
| 800003535   | 34 | 25,6 | 48 |
| 800003536   | 35 | 25,6 | 48 |
| 800003537   | 36 | 25,6 | 48 |
| 800003538   | 38 | 25,6 | 48 |
| 800003539   | 40 | 31,6 | 54 |
| 800003540   | 42 | 31,6 | 54 |
| 800003541   | 44 | 31,6 | 54 |
| 800003542   | 45 | 31,6 | 54 |
| 800003543   | 46 | 37,6 | 60 |
| 800003544   | 48 | 37,6 | 60 |
| 800003545   | 50 | 37,6 | 60 |
| 800003546   | 52 | 37,6 | 60 |
| 800003547   | 55 | 44,5 | 70 |
| 800003548   | 58 | 44,5 | 70 |
| 800003549   | 60 | 44,5 | 70 |
| 800003550   | 63 | 51,5 | 80 |
| 800003551   | 65 | 51,5 | 80 |
| 800003552   | 68 | 51,5 | 80 |
| 800003553   | 70 | 51,5 | 80 |

## 7711-KPL

## 7711-PL

- ER-Spannzangenfutter - Komplet-Set oder Satz für Werkzeuge mit Zylinderschaft
- Collet chucks with ER collets (DIN 6499)  
- set or small set

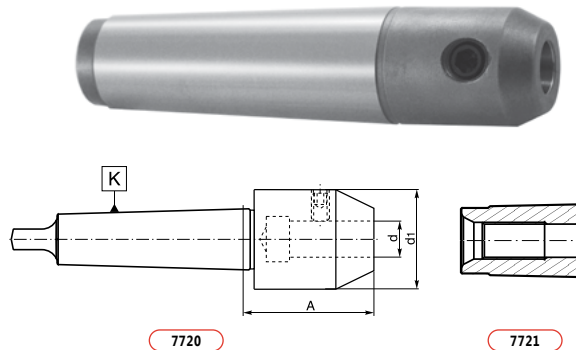


| Artikel Nr.                                       | K MK | Spannzangen | A    | Spannbereich   | Teilung        |
|---------------------------------------------------|------|-------------|------|----------------|----------------|
| Code No.                                          | K MT | Collet size |      | Clamping range | Collets in set |
| 7711-KPL                                          |      |             |      |                |                |
| 800002413                                         | 2    | ER16        | 43,5 | 2-10           | 8              |
| 800002414                                         | 2    | ER20        | 47,5 | 2-13           | 11             |
| 800002415                                         | 2    | ER32        | 65,5 | 2-20           | 18             |
| 800002416                                         | 3    | ER16        | 43,5 | 2-10           | 8              |
| 800002417                                         | 3    | ER20        | 45,5 | 2-13           | 11             |
| 800002418                                         | 3    | ER25        | 68   | 2-16           | 14             |
| 800002419                                         | 3    | ER32        | 73,5 | 2-20           | 18             |
| 800002420                                         | 4    | ER25        | 54,5 | 2-16           | 14             |
| 800002421                                         | 4    | ER32        | 84   | 2-20           | 18             |
| 800002422                                         | 5    | ER32        | 65,5 | 2-20           | 18             |
| 800002423                                         | 5    | ER40        | 67,5 | 2-26           | 24             |
| 7711-PL                                           |      |             |      |                |                |
| 800002424                                         | 3    | ER32        | 73,5 | 3-20           | 8              |
| Spannzangen • Collet Ø 4, 5, 6, 8, 10, 12, 16, 20 |      |             |      |                |                |
| 800002425                                         | 4    | ER32        | 84   | 3-20           | 8              |
| Spannzangen • Collet Ø 4, 5, 6, 8, 10, 12, 16, 20 |      |             |      |                |                |
| 800002426                                         | 5    | ER32        | 65,5 | 3-20           | 8              |
| Spannzangen • Collet Ø 4, 5, 6, 8, 10, 12, 16, 20 |      |             |      |                |                |



## 7720

- Weldon Spannfläche
- Weldon type end mill holders  
DIN 1835-B with tang



## 7721

- Weldon Spannfläche
- Weldon type end mill holders  
DIN 1835-B with drawbar thread



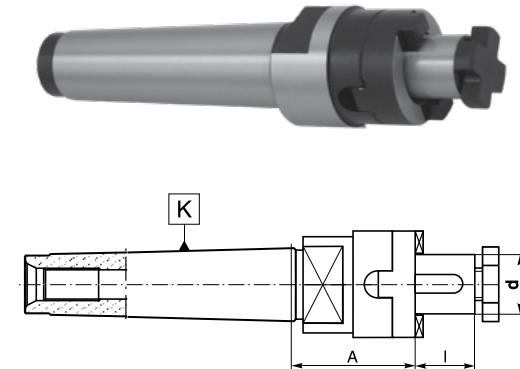
| Artikel Nr.<br>Code No. |           | K MK | d  | d <sub>1</sub> | A    |          |
|-------------------------|-----------|------|----|----------------|------|----------|
| 7720                    | 7721      | K MT |    |                |      |          |
| 800002427               | 800002449 | 2    | 6  | 25             | 50,0 | U-4131/0 |
| 800002428               | 800002450 | 2    | 8  | 28             | 50,0 | U-4132/0 |
| 800002429               | 800002685 | 2    | 10 | 35             | 55,0 | U-4133/0 |
| 800002430               | 800002686 | 2    | 12 | 42             | 68,0 | U-4134/0 |
| 800002431               | 800002687 | 2    | 16 | 48             | 70,0 | U-4135/0 |
| 800002432               | 800002688 | 3    | 6  | 25             | 50,0 | U-4131/0 |
| 800002433               | 800002689 | 3    | 8  | 28             | 50,0 | U-4132/0 |
| 800002434               | 800002690 | 3    | 10 | 35             | 55,0 | U-4133/0 |
| 800003499               | 800002691 | 3    | 12 | 42             | 68,0 | U-4134/0 |
| 800002435               | 800002692 | 3    | 16 | 48             | 76,0 | U-4135/0 |
| 800002436               | 800002693 | 3    | 20 | 52             | 76,0 | U-4136/0 |
| 800002437               | 800002694 | 4    | 6  | 25             | 51,5 | U-4131/0 |
| 800002438               | 800002695 | 4    | 8  | 28             | 51,5 | U-4132/0 |
| 800002439               | 800002696 | 4    | 10 | 35             | 56,5 | U-4133/0 |
| 800002440               | 800002697 | 4    | 12 | 42             | 62,5 | U-4134/0 |
| 800002441               | 800002698 | 4    | 16 | 48             | 62,5 | U-4135/0 |
| 800002442               | 800002699 | 4    | 20 | 52             | 77,5 | U-4136/0 |
| 800002443               | 800002700 | 5    | 6  | 25             | 51,5 | U-4131/0 |
| 800002444               | 800002701 | 5    | 8  | 28             | 51,5 | U-4132/0 |
| 800002445               | 800002702 | 5    | 10 | 35             | 62,5 | U-4133/0 |
| 800002446               | 800002703 | 5    | 12 | 42             | 69,5 | U-4134/0 |
| 800002447               | 800002704 | 5    | 16 | 48             | 69,5 | U-4135/0 |
| 800002448               | 800002705 | 5    | 20 | 52             | 69,5 | U-4136/0 |

| Artikel Nr.<br>Code No. | K MK<br>K MT | d  | A  | I  |          |          |          |
|-------------------------|--------------|----|----|----|----------|----------|----------|
| 800001686               | 2            | 16 | 46 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001687               | 2            | 16 | 61 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001688               | 2            | 22 | 46 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001689               | 2            | 22 | 61 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001690               | 3            | 16 | 48 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001691               | 3            | 16 | 63 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001692               | 3            | 22 | 48 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001693               | 3            | 22 | 63 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001694               | 3            | 27 | 48 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001695               | 3            | 27 | 63 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001696               | 3            | 32 | 63 | 24 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001697               | 4            | 16 | 55 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001698               | 4            | 16 | 70 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001699               | 4            | 22 | 55 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001700               | 4            | 22 | 70 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001701               | 4            | 27 | 55 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001702               | 4            | 27 | 70 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001703               | 4            | 32 | 55 | 24 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001704               | 4            | 32 | 70 | 24 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001705               | 4            | 40 | 70 | 27 | U-0624/0 | U-1368/0 | U-1359/0 |
| 800001706               | 5            | 16 | 75 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 800001707               | 5            | 22 | 75 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 800001708               | 5            | 27 | 75 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 800001709               | 5            | 32 | 75 | 24 | U-0623/0 | U-1367/0 | U-1358/0 |
| 800001710               | 5            | 40 | 75 | 27 | U-0624/0 | U-1368/0 | U-1359/0 |
| 800001711               | 5            | 50 | 75 | 30 | U-0625/0 | U-1369/0 | U-1360/0 |

| Artikel Nr.<br>Code No. | K MK<br>K MT | d  | D   | L     |
|-------------------------|--------------|----|-----|-------|
| 800001712               | 2            | 5  | 10  | 105,0 |
| 800001713               | 2            | 8  | 15  | 125,0 |
| 800001714               | 2            | 10 | 20  | 135,0 |
| 800001715               | 3            | 13 | 25  | 165,0 |
| 800001716               | 3            | 16 | 32  | 180,0 |
| 800001717               | 4            | 22 | 40  | 215,5 |
| 800001718               | 4            | 27 | 50  | 220,5 |
| 800001719               | 4            | 32 | 63  | 225,5 |
| 800001720               | 4            | 40 | 80  | 235,5 |
| 800001721               | 5            | 50 | 100 | 282,0 |

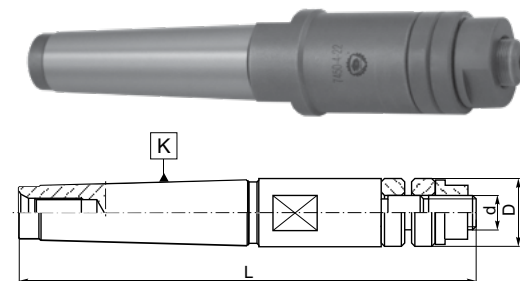
## 7430

- Kombi-Aufsteckfräs zur Aufnahme von Fräsen mit Längs- und Quernut nach DIN 138
- Combination shell mill holders



## 7450

- Werkzeugaufnahme für Sägeblätter
- Milling arbors for disc milling cutters



## DIN 1835

Standardmerkmale der Werkzeuge:

- Hergestellt aus Chrom Mangan Stahl
- Einsatzgehärtet auf eine Tiefe von 0,7 mm
- Gehärtet und präzisionsgeschliffen
- Oberflächenhärte HRC 58±2

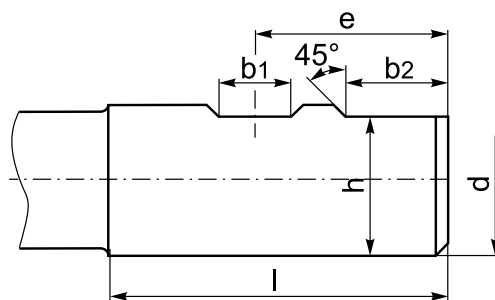
Standard features of the tools:

- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm
- Hardened and precision ground
- Surface hardness HRC 58±2

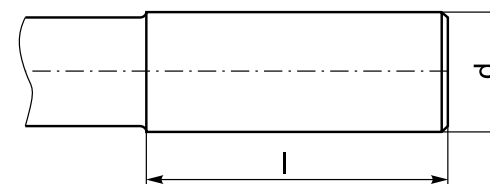
| d h6 | l  | b <sub>1</sub> | b <sub>2</sub> | h h <sub>11</sub> | e    |
|------|----|----------------|----------------|-------------------|------|
| 6    | 36 | 4,2            | -              | 5,1               | 18,0 |
| 8    | 36 | 5,5            | -              | 6,9               | 18,0 |
| 10   | 40 | 7,0            | -              | 8,5               | 20,0 |
| 12   | 45 | 8,0            | -              | 10,4              | 22,5 |
| 14   | 45 | 8,0            | -              | 12,7              | 22,5 |
| 16   | 48 | 10,0           | -              | 14,2              | 24,0 |
| 18   | 48 | 10,0           | -              | 16,2              | 24,0 |
| 20   | 50 | 11,0           | -              | 18,2              | 25,0 |
| 25   | 56 | 12,0           | 17             | 23,0              | 32,0 |
| 32   | 60 | 14,0           | 19             | 30,0              | 35,0 |

Typ B • Type B

- Typ B - mit zwei Spannflächen (Weldon)
- d = 25 ÷ 32 mm
- Type B - with two clamping flats (Weldon)
- d = 25 ÷ 32 mm

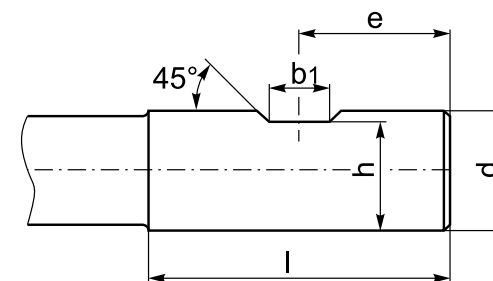


Typ A • Type A



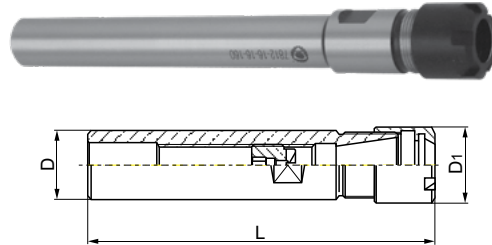
Typ B • Type B

- Typ B - mit einer Spannfläche (Weldon)
- d = 6 ÷ 20 mm
- Type B - with one clamping flat (Weldon)
- d = 6 ÷ 20 mm



## 7812

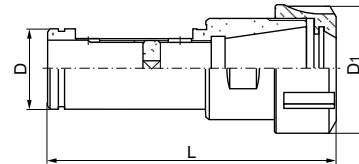
- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)



| Artikel Nr.<br>Code No. | D  | Spannzangen<br>Collet size | L   | Spannbereich<br>Clamping range | D <sub>1</sub> |          |              |
|-------------------------|----|----------------------------|-----|--------------------------------|----------------|----------|--------------|
| 800002706               | 16 | ER16                       | 160 | 2-10                           | 22             | 9833-16S | M10x11LH     |
| 800002707               | 20 | ER16                       | 100 | 2-10                           | 22             | 9833-16S | M12x1,5x14LH |
| 800002708               | 20 | ER16                       | 160 | 2-10                           | 22             | 9833-16S | M12x1,5x14LH |

## 7815

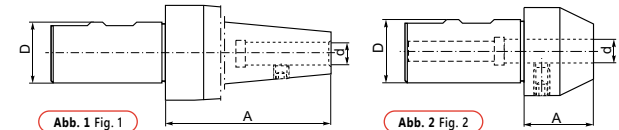
- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)



| Artikel Nr.<br>Code No. | D  | Spannzangen<br>Collet size | L   | Spannbereich<br>Clamping range | D <sub>1</sub> |         |              |
|-------------------------|----|----------------------------|-----|--------------------------------|----------------|---------|--------------|
| 800002717               | 32 | ER32                       | 110 | 2-20                           | 50             | 9833-32 | M22x1,5x10LH |
| 800002718               | 40 | ER32                       | 117 | 2-20                           | 50             | 9833-32 | M22x1,5x10LH |

## 7622

- Reduzierhülse für Werkzeuge mit zylindrischem Schaft und Weldon Spannfläche
- Reduction adapters for Weldon type end mills DIN 1835-B



| Artikel Nr.<br>Code No. | D  | d  | A   | Abb.<br>Fig. |          |
|-------------------------|----|----|-----|--------------|----------|
| 800001982               | 20 | 6  | 30  | 2            | U-4131/0 |
| 800001983               | 20 | 8  | 30  | 2            | U-4132/0 |
| 800001984               | 20 | 10 | 30  | 2            | U-4133/0 |
| 800001985               | 20 | 12 | 35  | 2            | U-4134/0 |
| 800001986               | 32 | 6  | 25  | 2            | U-4131/0 |
| 800001987               | 32 | 8  | 25  | 2            | U-4132/0 |
| 800001988               | 32 | 10 | 30  | 2            | U-4133/0 |
| 800001989               | 32 | 12 | 35  | 2            | U-4134/0 |
| 800001990               | 32 | 14 | 40  | 2            | U-4134/0 |
| 800001991               | 32 | 16 | 40  | 2            | U-4135/0 |
| 800001992               | 32 | 18 | 40  | 2            | U-4136/0 |
| 800001993               | 32 | 20 | 40  | 2            | U-4136/0 |
| 800001994               | 40 | 8  | 175 | 1            | U-7381/0 |
| 800001995               | 40 | 10 | 175 | 1            | U-7381/0 |
| 800001996               | 40 | 12 | 175 | 1            | U-7381/0 |
| 800001997               | 40 | 16 | 175 | 1            | S-2628/0 |
| 800001998               | 40 | 20 | 175 | 1            | S-2628/0 |
| 800001999               | 40 | 25 | 175 | 1            | S-2628/0 |
| 800002000               | 40 | 32 | 180 | 1            | S-2628/0 |

## 7812-PL

- ER-Spannzangenfutter - Satz für Werkzeuge mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499) - small set

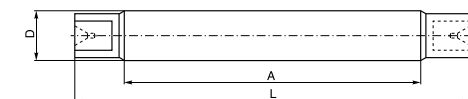


| Artikel Nr.<br>Code No. | D  | Spannzangen<br>Collet size | L   | Spannbereich<br>Clamping range | Teilung<br>Collets in set |
|-------------------------|----|----------------------------|-----|--------------------------------|---------------------------|
| 800002709               | 16 | ER16                       | 160 | 2-10                           | 8                         |
| 800002710               | 20 | ER16                       | 100 | 2-10                           | 8                         |
| 800002711               | 20 | ER16                       | 160 | 2-10                           | 8                         |

| Artikel Nr.<br>Code No. | D   | A   | L   | Artikel Nr.<br>Code No. | D  | A   | L   |
|-------------------------|-----|-----|-----|-------------------------|----|-----|-----|
| 800002757               | 3   | 36  | 55  | 800002786               | 30 | 137 | 185 |
| 800002758               | 3,2 | 45  | 65  | 800002787               | 32 | 170 | 220 |
| 800002759               | 3,5 | 45  | 65  | 800002788               | 34 | 170 | 220 |
| 800002760               | 4   | 45  | 65  | 800002789               | 35 | 178 | 230 |
| 800002761               | 4,5 | 50  | 70  | 800002790               | 36 | 178 | 230 |
| 800002762               | 5   | 50  | 70  | 800002791               | 37 | 178 | 230 |
| 800002763               | 6   | 50  | 70  | 800002792               | 38 | 178 | 230 |
| 800002764               | 7   | 65  | 85  | 800002793               | 40 | 187 | 245 |
| 800002765               | 8   | 65  | 85  | 800002794               | 42 | 187 | 245 |
| 800002766               | 9   | 71  | 95  | 800002795               | 44 | 187 | 245 |
| 800002767               | 10  | 71  | 95  | 800002796               | 45 | 199 | 265 |
| 800002768               | 11  | 87  | 115 | 800002797               | 46 | 199 | 265 |
| 800002769               | 12  | 87  | 115 | 800002798               | 48 | 199 | 265 |
| 800002770               | 13  | 87  | 115 | 800002799               | 50 | 199 | 265 |
| 800002771               | 14  | 87  | 115 | 800002800               | 52 | 231 | 305 |
| 800002772               | 15  | 96  | 130 | 800002801               | 54 | 231 | 305 |
| 800002773               | 16  | 96  | 130 | 800002802               | 55 | 231 | 305 |
| 800002774               | 17  | 96  | 130 | 800002803               | 56 | 231 | 305 |
| 800002775               | 18  | 96  | 130 | 800002804               | 58 | 231 | 305 |
| 800002776               | 19  | 124 | 160 | 800002805               | 60 | 231 | 305 |
| 800002777               | 20  | 124 | 160 | 800002806               | 62 | 248 | 330 |
| 800002778               | 21  | 124 | 160 | 800002807               | 63 | 248 | 330 |
| 800002779               | 22  | 124 | 160 | 800002808               | 65 | 248 | 330 |
| 800002780               | 23  | 130 | 170 | 800002809               | 68 | 248 | 330 |
| 800002781               | 24  | 130 | 170 | 800002810               | 70 | 248 | 330 |
| 800002782               | 25  | 130 | 170 | 800002811               | 71 | 266 | 360 |
| 800002783               | 26  | 130 | 170 | 800002812               | 72 | 266 | 360 |
| 800002784               | 27  | 137 | 185 | 800002813               | 75 | 266 | 360 |
| 800002785               | 28  | 137 | 185 | 800002814               | 78 | 266 | 360 |

## 8500

- Dorn mit flacher Ebene
- Lathe mandrels



| Artikel Nr.<br>Code No. | D   | A   | L   |
|-------------------------|-----|-----|-----|
| 800002815               | 80  | 266 | 360 |
| 800002816               | 82  | 298 | 400 |
| 800002817               | 85  | 298 | 400 |
| 800002818               | 88  | 298 | 400 |
| 800002819               | 90  | 298 | 400 |
| 800002820               | 92  | 316 | 430 |
| 800002821               | 95  | 316 | 430 |
| 800002822               | 98  | 316 | 430 |
| 800002823               | 100 | 316 | 430 |

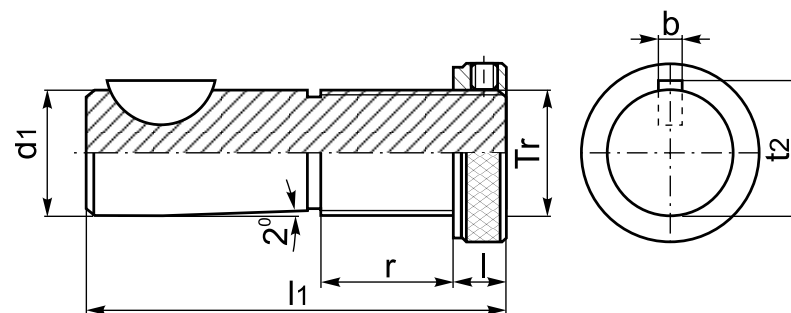
## DIN 6327

### Standardmerkmale der Werkzeuge:

- Hergestellt aus Chrom Mangan Stahl
- Einsatzgehärtet auf eine Tiefe von 0,7mm
- Gehärtet und Präzisionsgeschliffen
- Oberflächenhärte HRC 58±2

### Standard features of the tools:

- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm
- Hardened and precision ground
- Surface hardness HRC 58±2



| Tr        | d <sub>1</sub> | l <sub>1</sub> | l  | r  | b  | t <sub>2</sub> |
|-----------|----------------|----------------|----|----|----|----------------|
| Tr 16x1,5 | 16             | 85             | 12 | 28 | 5  | 17,1           |
| Tr 20x2   | 20             | 88             | 12 | 28 | 5  | 21,1           |
| Tr 28x2   | 28             | 95             | 12 | 30 | 6  | 29,5           |
| Tr 36x2   | 36             | 118            | 14 | 36 | 8  | 37,5           |
| Tr 48x2   | 48             | 144            | 18 | 47 | 10 | 49,9           |

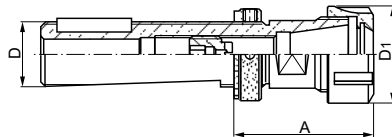






## 7813

- ER-Spannzangenfutter zur Aufnahme von Werkzeugen mit Zylinderschaft
- Collet chucks for ER collets (DIN 6499)

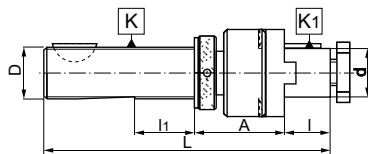


| Artikel Nr.<br>Code No. | D  | Spannzangen<br>Collet size | A  | Spannbereich<br>Clamping range | D <sub>1</sub> |         |              |
|-------------------------|----|----------------------------|----|--------------------------------|----------------|---------|--------------|
| 800002712               | 28 | ER25                       | 60 | 2-16                           | 42             | 9833-25 | M16x1,5x17LH |
| 800002713               | 28 | ER32                       | 70 | 2-20                           | 50             | 9833-32 | M16x1,5x17LH |
| 800002714               | 36 | ER32                       | 65 | 2-20                           | 50             | 9833-32 | M18x1,5x19LH |
| 800002715               | 36 | ER40                       | 78 | 3-26                           | 63             | 9833-40 | M18x1,5x19LH |
| 800002716               | 48 | ER40                       | 82 | 3-26                           | 63             | 9833-40 | M18x1,5x19LH |



## 7510

- Kombi-Stellhülse für Messerköpfe mit Aufnahme nach DIN 138
- Combination shell mill holders

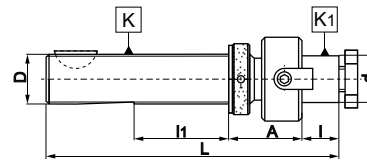


| Artikel Nr.<br>Code No. | K D | K <sub>1</sub> d | L   | I <sub>1</sub> | A  | I  |          |          |          |
|-------------------------|-----|------------------|-----|----------------|----|----|----------|----------|----------|
| 800001722               | 20  | 16               | 133 | 20             | 50 | 17 | U-0620/0 | U-1364/0 | Z-1276/0 |
| 800001723               | 20  | 22               | 138 | 20             | 50 | 19 | U-0621/0 | U-1365/0 | Z-1276/0 |
| 800001724               | 28  | 16               | 140 | 30             | 50 | 17 | U-0620/0 | U-1364/0 | Z-1278/0 |
| 800001725               | 28  | 22               | 145 | 30             | 50 | 19 | U-0621/0 | U-1365/0 | Z-1278/0 |
| 800001726               | 28  | 27               | 155 | 30             | 50 | 21 | U-0622/0 | U-1366/0 | Z-1278/0 |
| 800001727               | 28  | 32               | 155 | 30             | 50 | 24 | U-0623/0 | U-1367/0 | Z-1278/0 |
| 800001728               | 36  | 16               | 165 | 36             | 50 | 17 | U-0620/0 | U-1364/0 | Z-1279/0 |
| 800001729               | 36  | 22               | 170 | 36             | 50 | 19 | U-0621/0 | U-1365/0 | Z-1279/0 |
| 800001730               | 36  | 27               | 175 | 36             | 50 | 21 | U-0622/0 | U-1366/0 | Z-1279/0 |
| 800001731               | 36  | 32               | 180 | 36             | 50 | 24 | U-0623/0 | U-1367/0 | Z-1279/0 |
| 800001732               | 48  | 16               | 190 | 47             | 50 | 17 | U-0620/0 | U-1364/0 | Z-1280/0 |
| 800001733               | 48  | 22               | 195 | 47             | 50 | 19 | U-0621/0 | U-1365/0 | Z-1280/0 |
| 800001734               | 48  | 27               | 200 | 47             | 50 | 21 | U-0622/0 | U-1366/0 | Z-1280/0 |
| 800001735               | 48  | 32               | 205 | 47             | 50 | 24 | U-0623/0 | U-1367/0 | Z-1280/0 |
| 800001736               | 48  | 40               | 210 | 47             | 50 | 27 | U-0624/0 | U-1368/0 | Z-1280/0 |



## 7520

- Stellhülse für Fräser mit Quernut nach DIN 138
- Shell mill holders

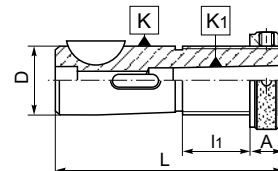


| Artikel Nr.<br>Code No. | K D | K <sub>1</sub> d | L   | I <sub>1</sub> | A  | I  |          |          |
|-------------------------|-----|------------------|-----|----------------|----|----|----------|----------|
| 800001737               | 28  | 16               | 140 | 30             | 36 | 17 | U-0620/0 | Z-1278/0 |
| 800001738               | 28  | 22               | 142 | 30             | 36 | 19 | U-0621/0 | Z-1278/0 |
| 800001739               | 28  | 27               | 144 | 30             | 36 | 21 | U-0622/0 | Z-1278/0 |
| 800001740               | 28  | 32               | 149 | 30             | 38 | 24 | U-0623/0 | Z-1278/0 |
| 800001741               | 36  | 16               | 163 | 36             | 38 | 17 | U-0620/0 | Z-1279/0 |
| 800001742               | 36  | 22               | 165 | 36             | 38 | 19 | U-0621/0 | Z-1279/0 |
| 800001743               | 36  | 27               | 167 | 36             | 38 | 21 | U-0622/0 | Z-1279/0 |
| 800001744               | 36  | 32               | 172 | 36             | 40 | 24 | U-0623/0 | Z-1279/0 |
| 800001745               | 48  | 16               | 189 | 47             | 42 | 17 | U-0620/0 | Z-1280/0 |
| 800001746               | 48  | 22               | 191 | 47             | 42 | 19 | U-0621/0 | Z-1280/0 |
| 800001747               | 48  | 27               | 193 | 47             | 42 | 21 | U-0622/0 | Z-1280/0 |
| 800001748               | 48  | 32               | 198 | 47             | 44 | 24 | U-0623/0 | Z-1280/0 |
| 800001749               | 48  | 40               | 202 | 47             | 45 | 27 | U-0624/0 | Z-1280/0 |



## 1830

- Stellhülse für Werkzeuge mit MK-Schaft
- Adjustable adapters for tools with Morse taper shank

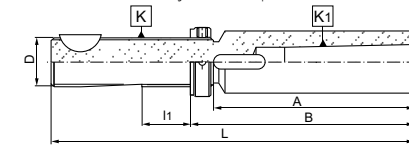


| Artikel Nr.<br>Code No. | K D | K <sub>1</sub> MK | L   | I <sub>1</sub> | A  |          |
|-------------------------|-----|-------------------|-----|----------------|----|----------|
| 800000485               | 16  | 1                 | 85  | 28             | 12 | Z-1275/0 |
| 800000486               | 20  | 1                 | 88  | 28             | 12 | Z-1276/0 |
| 800000487               | 28  | 1                 | 95  | 30             | 12 | Z-1278/0 |
| 800000488               | 28  | 2                 | 95  | 30             | 12 | Z-1278/0 |
| 800000489               | 36  | 1                 | 118 | 36             | 14 | Z-1279/0 |
| 800000490               | 36  | 2                 | 118 | 36             | 14 | Z-1279/0 |
| 800000491               | 36  | 3                 | 118 | 36             | 14 | Z-1279/0 |
| 800000492               | 48  | 1                 | 144 | 47             | 18 | Z-1280/0 |
| 800000493               | 48  | 2                 | 144 | 47             | 18 | Z-1280/0 |
| 800000494               | 48  | 3                 | 144 | 47             | 18 | Z-1280/0 |
| 800000495               | 48  | 4                 | 144 | 47             | 18 | Z-1280/0 |



## 1831

- Stellhülse für Werkzeuge mit MK-Schaft
- Adjustable adapters for tools with Morse taper shank

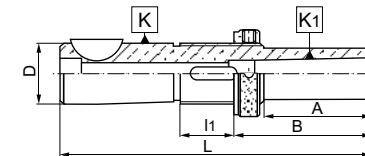


| Artikel Nr.<br>Code No. | K D | K <sub>1</sub> MK | L   | A   | I <sub>1</sub> | B   |          |
|-------------------------|-----|-------------------|-----|-----|----------------|-----|----------|
| 800000496               | 16  | 1                 | 164 | 79  | 28             | 91  | Z-1275/0 |
| 800000497               | 16  | 2                 | 179 | 94  | 28             | 106 | Z-1275/0 |
| 800000498               | 20  | 2                 | 182 | 94  | 28             | 106 | Z-1276/0 |
| 800000499               | 28  | 3                 | 212 | 117 | 30             | 129 | Z-1278/0 |
| 800000500               | 36  | 4                 | 264 | 146 | 36             | 160 | Z-1279/0 |



## 1833

- Stellhülse für Werkzeuge mit MK-Schaft
- Adjustable adapters for tools with Morse taper shank

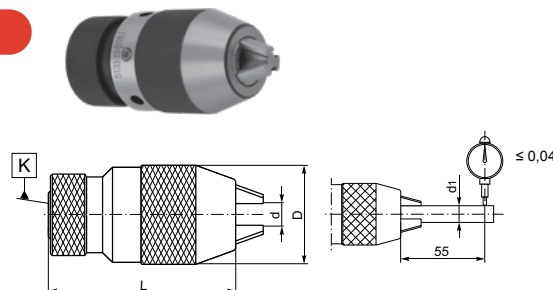


| Artikel Nr.<br>Code No. | K D | K <sub>1</sub> MK | A   | L   | I <sub>1</sub> | B   |          |
|-------------------------|-----|-------------------|-----|-----|----------------|-----|----------|
| 800000501               | 16  | 1                 | 25  | 110 | 28             | 37  | Z-1275/0 |
| 800000502               | 16  | 1                 | 50  | 135 | 28             | 62  | Z-1275/0 |
| 800000503               | 16  | 1                 | 75  | 135 | 28             | 87  | Z-1275/0 |
| 800000504               | 16  | 1                 | 100 | 185 | 28             | 112 | Z-1275/0 |
| 800000505               | 20  | 1                 | 25  | 135 | 28             | 37  | Z-1276/0 |
| 800000506               | 20  | 1                 | 50  | 138 | 28             | 62  | Z-1276/0 |
| 800000507               | 20  | 1                 | 75  | 163 | 28             | 87  | Z-1276/0 |
| 800000508               | 20  | 1                 | 100 | 188 | 28             | 112 | Z-1276/0 |
| 800000509               | 28  | 1                 | 25  | 120 | 30             | 37  | Z-1278/0 |
| 800000510               | 28  | 1                 | 50  | 145 | 30             | 62  | Z-1278/0 |
| 800000511               | 28  | 1                 | 75  | 170 | 30             | 87  | Z-1278/0 |
| 800000512               | 28  | 1                 | 100 | 195 | 30             | 112 | Z-1278/0 |
| 800000513               | 28  | 2                 | 25  | 120 | 30             | 37  | Z-1278/0 |
| 800000514               | 28  | 2                 | 50  | 145 | 30             | 62  | Z-1278/0 |
| 800000515               | 28  | 2                 | 75  | 170 | 30             | 87  | Z-1278/0 |
| 800000516               | 28  | 2                 | 100 | 195 | 30             | 112 | Z-1278/0 |
| 800000517               | 36  | 2                 | 30  | 148 | 36             | 44  | Z-1279/0 |
| 800000518               | 36  | 2                 | 60  | 178 | 36             | 74  | Z-1279/0 |
| 800000519               | 36  | 2                 | 90  | 208 | 36             | 104 | Z-1279/0 |
| 800000520               | 36  | 2                 | 120 | 238 | 36             | 134 | Z-1279/0 |
| 800000521               | 36  | 3                 | 30  | 148 | 36             | 44  | Z-1279/0 |
| 800000522               | 36  | 3                 | 60  | 178 | 36             | 74  | Z-1279/0 |
| 800000523               | 36  | 3                 | 90  | 208 | 36             | 104 | Z-1279/0 |
| 800000524               | 36  | 3                 | 120 | 238 | 36             | 134 | Z-1279/0 |
| 800000525               | 48  | 3                 | 40  | 184 | 47             | 58  | Z-1280/0 |
| 800000526               | 48  | 3                 | 80  | 224 | 47             | 98  | Z-1280/0 |
| 800000527               | 48  | 3                 | 120 | 264 | 47             | 138 | Z-1280/0 |
| 800000528               | 48  | 3                 | 160 | 304 | 47             | 178 | Z-1280/0 |
| 800000529               | 48  | 4                 | 40  | 184 | 47             | 58  | Z-1280/0 |
| 800000530               | 48  | 4                 | 80  | 224 | 47             | 98  | Z-1280/0 |
| 800000531               | 48  | 4                 | 120 | 264 | 47             | 138 | Z-1280/0 |
| 800000532               | 48  | 4                 | 160 | 304 | 47             | 178 | Z-1280/0 |



# 5133

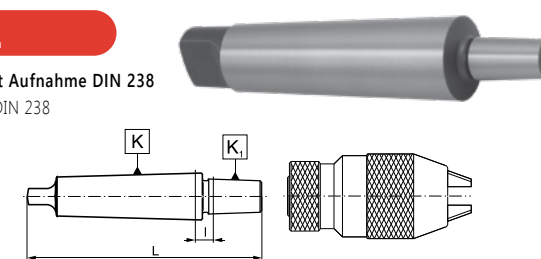
- Schnellspann-Bohrfutter
- Keyless drill chucks for industrial and CNC use



| Rundlaufabweichung<br>Max. concent. error | Artikel Nr.<br>Code No. | Rundlaufabweichung<br>Max. concent. error | Artikel Nr.<br>Code No. | d max | K   | Spannbereich<br>Clamping range | D  | L   | d <sub>1</sub> |
|-------------------------------------------|-------------------------|-------------------------------------------|-------------------------|-------|-----|--------------------------------|----|-----|----------------|
| Präzision • precision                     |                         | Standard • standard                       |                         |       |     |                                |    |     |                |
| 0,04                                      | 800000693               | 0,15                                      | 800000694               | 10    | B12 | 0,5-10                         | 43 | 84  | 6; 10          |
| 0,04                                      | 800000699               | 0,15                                      | 800000700               | 10    | J2  | 0,5-10                         | 43 | 84  | 6; 11          |
| 0,04                                      | 800000701               | 0,15                                      | 800000702               | 10    | J33 | 0,5-10                         | 43 | 84  | 6; 12          |
| 0,04                                      | 800000695               | 0,15                                      | 800000696               | 13    | B12 | 1-13                           | 50 | 95  | 6; 13          |
| 0,04                                      | 800000697               | 0,15                                      | 800000698               | 13    | B16 | 1-13                           | 50 | 95  | 6; 14          |
| 0,04                                      | 800000703               | 0,15                                      | 800000704               | 13    | J2  | 1-13                           | 50 | 95  | 6; 15          |
| 0,04                                      | 800000705               | 0,15                                      | 800000706               | 13    | J6  | 1-13                           | 50 | 95  | 6; 16          |
| 0,04                                      | 800000707               | 0,15                                      | 800000708               | 13    | J33 | 1-13                           | 50 | 95  | 6; 17          |
| 0,04                                      | 800000709               | 0,15                                      | 800000710               | 16    | B16 | 3-16                           | 58 | 103 | 6; 16          |
| 0,04                                      | 800000711               | 0,15                                      | 800000712               | 16    | B18 | 3-16                           | 58 | 109 | 6; 17          |
| 0,04                                      | 800000713               | 0,15                                      | 800000714               | 16    | J6  | 3-16                           | 58 | 103 | 6; 18          |
| 0,04                                      | 800000715               | 0,15                                      | 800000716               | 16    | J3  | 3-16                           | 58 | 109 | 6; 19          |

# 5361

- Kegel für Bohrfutter mit Aufnahme DIN 238
- Drill chuck mandrels for DIN 238 taper with tang

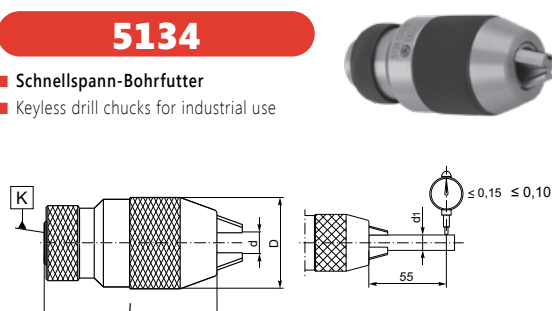


| Artikel Nr.<br>Code No. | K MK | K <sub>1</sub> DIN | L     | I    |
|-------------------------|------|--------------------|-------|------|
| 800000773               | 1    | B10                | 86,0  | 6,0  |
| 800000774               | 1    | B12                | 89,0  | 5,0  |
| 800000775               | 1    | B16                | 99,0  | 8,0  |
| 800000776               | 1    | B18                | 107,0 | 8,0  |
| 800003435               | 1    | B18V               | 97,0  | 8,0  |
| 800000777               | 2    | B10                | 105,0 | 12,0 |
| 800000778               | 2    | B12                | 106,0 | 9,0  |
| 800000779               | 2    | B16                | 112,0 | 8,0  |
| 800000780               | 2    | B18                | 119,0 | 7,0  |
| 800003436               | 2    | B18V               | 108,5 | 6,5  |
| 800000781               | 2    | B22                | 130,0 | 9,5  |
| 800000782               | 3    | B10                | 121,0 | 9,0  |
| 800000783               | 3    | B12                | 127,0 | 11,0 |
| 800000784               | 3    | B16                | 134,0 | 11,0 |
| 800000785               | 3    | B18                | 140,0 | 9,0  |

| Artikel Nr.<br>Code No. | K MK | K <sub>1</sub> DIN | L     | I    |
|-------------------------|------|--------------------|-------|------|
| 800003437               | 3    | B18V               | 132,0 | 11,0 |
| 800000786               | 3    | B22                | 147,0 | 17,5 |
| 800000787               | 3    | B24                | 157,0 | 17,5 |
| 800000788               | 4    | B12                | 152,5 | 13,0 |
| 800000789               | 4    | B16                | 158,0 | 11,5 |
| 800000790               | 4    | B18                | 166,5 | 12,0 |
| 800003438               | 4    | B18V               | 159,0 | 14,5 |
| 800000791               | 4    | B22                | 176,0 | 13,0 |
| 800000792               | 4    | B24                | 186,0 | 13,0 |
| 800000793               | 5    | B12                | 186,5 | 15,0 |
| 800000794               | 5    | B16                | 193,0 | 14,5 |
| 800000795               | 5    | B18                | 200,5 | 14,0 |
| 800003439               | 5    | B18V               | 191,0 | 14,5 |
| 800000796               | 5    | B22                | 208,5 | 13,5 |
| 800000797               | 5    | B24                | 221,0 | 16,0 |

# 5134

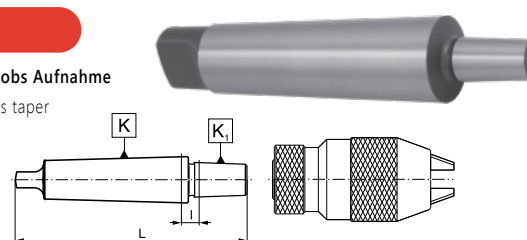
- Schnellspann-Bohrfutter
- Keyless drill chucks for industrial use



| Artikel Nr.<br>Code No. | d max | K       | Spannbereich<br>Clamping range | D  | L     | d <sub>1</sub> |
|-------------------------|-------|---------|--------------------------------|----|-------|----------------|
| 800000720               | 10    | B12     | 0,5-10                         | 40 | 85,5  | 6; 10          |
| 800000721               | 10    | B16     | 0,5-10                         | 40 | 85,5  | 6; 10          |
| 800000722               | 10    | ½"-20   | 0,5-10                         | 40 | 94,5  | 6; 10          |
| 800000723               | 13    | B12     | 1-13                           | 43 | 84,5  | 6; 13          |
| 800000724               | 13    | B16     | 1-13                           | 43 | 84,5  | 6; 13          |
| 800000725               | 13    | 3/8"-24 | 1-13                           | 43 | 93,5  | 6; 13          |
| 800000726               | 13    | 1/2"-20 | 1-13                           | 43 | 93,5  | 6; 13          |
| 800000727               | 16    | B16     | 3-16                           | 50 | 94,5  | 6; 16          |
| 800000728               | 16    | B18     | 3-16                           | 50 | 100,5 | 6; 16          |
| 800000729               | 16    | 1/2"-20 | 3-16                           | 50 | 103,5 | 6; 16          |
| 800000730               | 16    | 5/8"-16 | 3-16                           | 50 | 103,5 | 6; 16          |

# 5362

- Kegel für Bohrfutter mit Jacobs Aufnahme
- Drill chuck mandrels for Jacobs taper with tang

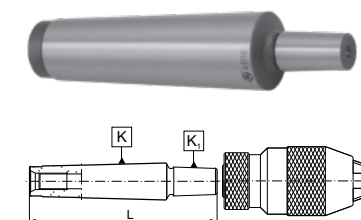


| Artikel Nr.<br>Code No. | K MK<br>K MT | K <sub>1</sub> Jacobs | L     | I    |
|-------------------------|--------------|-----------------------|-------|------|
| 800000798               | 1            | J0                    | 80,5  | 7,4  |
| 800000799               | 1            | J1                    | 83,8  | 5,1  |
| 800000800               | 1            | J2                    | 90,5  | 6,3  |
| 800000801               | 1            | J3                    | 100,5 | 7,5  |
| 800000802               | 1            | J33                   | 95,0  | 7,6  |
| 800000803               | 1            | J6                    | 95,0  | 7,6  |
| 800000804               | 2            | J0                    | 95,5  | 9,5  |
| 800000805               | 2            | J1                    | 102,5 | 9,8  |
| 800000806               | 2            | J2                    | 106,0 | 8,8  |
| 800000807               | 2            | J3                    | 112,5 | 6,5  |
| 800000808               | 2            | J33                   | 107,0 | 6,6  |
| 800000809               | 2            | J4                    | 128,5 | 11,4 |
| 800000810               | 2            | J6                    | 107,0 | 6,6  |
| 800000817               | 3            | J1                    | 120,5 | 9,8  |
| 800000811               | 3            | J2                    | 127,0 | 10,8 |
| 800000812               | 3            | J3                    | 131,5 | 6,5  |

| Artikel Nr.<br>Code No. | K MK<br>K MT | K <sub>1</sub> Jacobs | L     | I    |
|-------------------------|--------------|-----------------------|-------|------|
| 800000813               | 3            | J33                   | 126,0 | 6,6  |
| 800000814               | 3            | J4                    | 146,0 | 10,0 |
| 800000815               | 3            | J5                    | 153,0 | 11,4 |
| 800000816               | 3            | J6                    | 129,0 | 9,6  |
| 800000818               | 4            | J2                    | 151,5 | 11,8 |
| 800000819               | 4            | J3                    | 160,5 | 12,0 |
| 800000820               | 4            | J33                   | 155,0 | 12,0 |
| 800000821               | 4            | J4                    | 170,0 | 10,4 |
| 800000822               | 4            | J5                    | 175,5 | 10,4 |
| 800000823               | 4            | J6                    | 155,0 | 12,0 |
| 800000824               | 5            | J3                    | 193,5 | 12,5 |
| 800000825               | 5            | J33                   | 189,5 | 14,6 |
| 800000826               | 5            | J4                    | 203,5 | 11,4 |
| 800000827               | 5            | J5                    | 209,5 | 12,4 |
| 800000828               | 5            | J6                    | 187,0 | 12,1 |

# 5363

- Kegel für Bohrfutter mit Aufnahme DIN 238
- Drill chuck mandrels for DIN 238 taper with drawbar thread



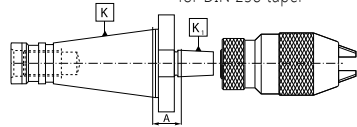
| Artikel Nr.<br>Code No. | K MK<br>K MT | K <sub>1</sub> DIN | L   |
|-------------------------|--------------|--------------------|-----|
| 800000829               | 2            | B12                | 95  |
| 800000830               | 2            | B16                | 101 |
| 800000831               | 3            | B16                | 121 |
| 800000832               | 4            | B16                | 143 |





### 5370-B

- Bohrfutteraufnahme für Bohrfutter mit Schaft DIN 238
- DIN 2080 drill chuck adapters for DIN 238 taper

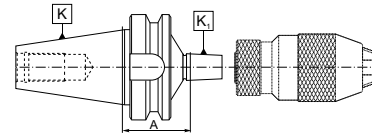


| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> DIN | A  |
|-------------------------|--------|--------------------|----|
| 800000849               | 30     | B10                | 15 |
| 800000850               | 30     | B12                | 15 |
| 800000851               | 30     | B16                | 15 |
| 800000852               | 30     | B18                | 15 |
| 800000853               | 30     | B22                | 15 |
| 800000854               | 40     | B12                | 17 |
| 800000855               | 40     | B12                | 90 |
| 800000856               | 40     | B16                | 17 |
| 800000857               | 40     | B16                | 90 |
| 800000858               | 40     | B18                | 17 |
| 800000859               | 40     | B18                | 90 |
| 800000860               | 40     | B22                | 17 |
| 800000861               | 40     | B24                | 17 |
| 800000862               | 50     | B16                | 20 |
| 800000863               | 50     | B16                | 90 |
| 800000864               | 50     | B18                | 20 |
| 800000865               | 50     | B18                | 90 |
| 800000866               | 50     | B22                | 20 |
| 800000867               | 50     | B24                | 20 |



### 5373-B

- Bohrfutteraufnahme für Bohrfutter mit Schaft DIN 238
- MAS-BT drill chuck adapters for DIN 238 taper

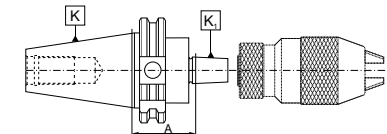


| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> DIN | A  |
|-------------------------|--------|--------------------|----|
| 800000868               | 30     | B12                | 30 |
| 800000869               | 30     | B16                | 30 |
| 800000870               | 40     | B12                | 40 |
| 800000871               | 40     | B12                | 90 |
| 800000872               | 40     | B16                | 42 |
| 800000873               | 40     | B16                | 90 |
| 800000874               | 40     | B18                | 42 |
| 800000875               | 40     | B18                | 90 |
| 800000876               | 50     | B16                | 45 |
| 800000877               | 50     | B16                | 90 |
| 800000878               | 50     | B18                | 45 |
| 800000879               | 50     | B18                | 90 |



### 5374-B

- Bohrfutteraufnahme für Bohrfutter mit Schaft DIN 238
- DIN 69871 drill chuck adapters for DIN 238 taper

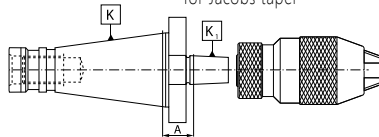


| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> DIN | A  |
|-------------------------|--------|--------------------|----|
| 800000880               | 30     | B12                | 25 |
| 800000881               | 30     | B16                | 25 |
| 800000882               | 40     | B12                | 40 |
| 800000883               | 40     | B12                | 90 |
| 800000884               | 40     | B16                | 40 |
| 800000885               | 40     | B16                | 90 |
| 800000886               | 40     | B18                | 40 |
| 800000887               | 40     | B18                | 90 |
| 800000888               | 50     | B16                | 40 |
| 800000889               | 50     | B16                | 90 |
| 800000890               | 50     | B18                | 40 |
| 800000891               | 50     | B18                | 90 |



### 5370-J

- Bohrfutteraufnahme für Bohrfutter mit Jacobs Schaft
- DIN 2080 drill chuck adapters for Jacobs taper

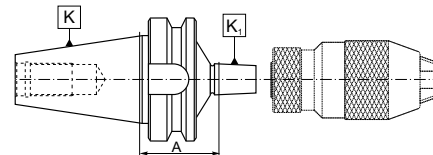


| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> Jacobs | A  |
|-------------------------|--------|-----------------------|----|
| 800003406               | 30     | J0                    | 12 |
| 800003407               | 30     | J1                    | 12 |
| 800003408               | 30     | J2                    | 12 |
| 800003409               | 30     | J3                    | 12 |
| 800003410               | 30     | J33                   | 12 |
| 800003411               | 30     | J6                    | 12 |
| 800003412               | 40     | J2                    | 14 |
| 800003414               | 40     | J3                    | 14 |
| 800003413               | 40     | J33                   | 14 |
| 800003415               | 40     | J6                    | 14 |
| 800003416               | 50     | J3                    | 18 |
| 800003417               | 50     | J33                   | 18 |
| 800003418               | 50     | J4                    | 18 |
| 800003419               | 50     | J5                    | 18 |
| 800003420               | 50     | J6                    | 18 |



### 5373-J

- Bohrfutteraufnahme für Bohrfutter mit Jacobs Schaft
- MAS-BT drill chuck adapters for Jacobs taper

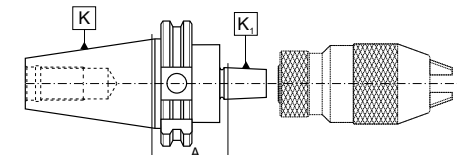


| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> Jacobs | A  |
|-------------------------|--------|-----------------------|----|
| 800003391               | 30     | J6                    | 30 |
| 800003392               | 40     | J33                   | 42 |
| 800003393               | 40     | J6                    | 42 |
| 800003394               | 50     | J33                   | 45 |
| 800003395               | 50     | J6                    | 45 |



### 5374-J

- Bohrfutteraufnahme für Bohrfutter mit Jacobs Schaft
- DIN69871 drill chuck adapters for Jacobs taper

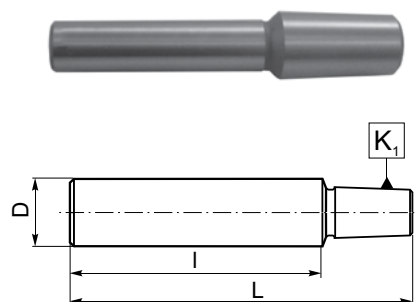


| Artikel Nr.<br>Code No. | K 7:24 | K <sub>1</sub> Jacobs | A  |
|-------------------------|--------|-----------------------|----|
| 800003387               | 40     | J33                   | 40 |
| 800003388               | 40     | J6                    | 40 |
| 800003389               | 50     | J33                   | 40 |
| 800003390               | 50     | J6                    | 40 |



# 5348

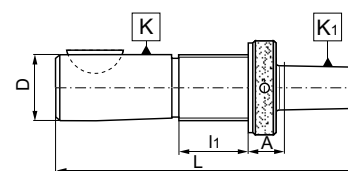
- Kegeldorne für Bohrfutter mit Zylinderschaft nach DIN 238
- Cylindrical drill chuck adapters for DIN 238 taper



| Artikel Nr.<br>Code No. | D  | I  | K, DIN | L     |
|-------------------------|----|----|--------|-------|
| 800000756               | 8  | 35 | B10    | 55.5  |
| 800000757               | 10 | 48 | B12    | 72.5  |
| 800000758               | 10 | 50 | B10    | 69.5  |
| 800000759               | 10 | 50 | B12    | 74.5  |
| 800000760               | 10 | 50 | B16    | 83.5  |
| 800000761               | 12 | 50 | B16    | 83.5  |
| 800000762               | 12 | 60 | B16    | 93.5  |
| 800000763               | 16 | 50 | B16    | 81.0  |
| 800000764               | 16 | 70 | B16    | 101.0 |
| 800000765               | 16 | 70 | B18    | 110.0 |
| 800000766               | 20 | 30 | B16    | 63.0  |
| 800000767               | 20 | 60 | B12    | 87.0  |
| 800000768               | 20 | 60 | B16    | 93.0  |
| 800000769               | 20 | 60 | B18    | 100.0 |
| 800000770               | 25 | 75 | B16    | 109.0 |
| 800000771               | 30 | 70 | B16    | 106.0 |
| 800000772               | 30 | 70 | B18    | 112.0 |

# 5365

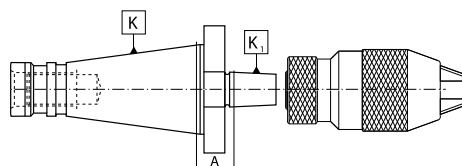
- Stellhülse für Werkzeuge mit Bohrfutteraufnahme DIN 238
- Adjustable drill chuck adapter for DIN 238 taper



| Artikel Nr.<br>Code No. | K D | K, DIN | L   | I1 | A   | Ø        |
|-------------------------|-----|--------|-----|----|-----|----------|
| 800000833               | 20  | B12    | 110 | 28 | 4.5 | Z-1276/0 |
| 800000834               | 20  | B16    | 117 | 28 | 5,0 | Z-1276/0 |
| 800000835               | 28  | B12    | 118 | 30 | 4.5 | Z-1278/0 |
| 800000836               | 28  | B16    | 124 | 30 | 5,0 | Z-1278/0 |
| 800000837               | 28  | B18    | 132 | 30 | 5,0 | Z-1278/0 |
| 800000838               | 36  | B16    | 147 | 36 | 5,0 | Z-1279/0 |
| 800000839               | 36  | B18    | 155 | 36 | 5,0 | Z-1279/0 |
| 800000840               | 36  | B22    | 163 | 36 | 4.5 | Z-1279/0 |
| 800000841               | 48  | B16    | 173 | 47 | 5,0 | Z-1280/0 |
| 800000842               | 48  | B18    | 181 | 47 | 5,0 | Z-1280/0 |
| 800000843               | 48  | B22    | 189 | 47 | 4.5 | Z-1280/0 |

# 5370 QC

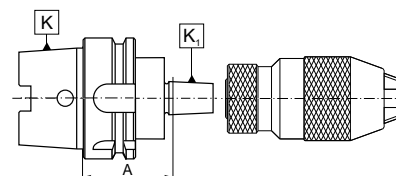
- Bohrfutteraufnahme für Bohrfutter mit Jacobs Schaft - Schnellwechselsystem
- DIN 2080 drill chuck adapters for DIN 238 or Jacobs tapers - quick change version



| Artikel Nr.<br>Code No. | K 7:24 | K, Jacobs | A  |
|-------------------------|--------|-----------|----|
| 800003421               | 30     | J33       | 21 |
| 800003423               | 30     | J6        | 21 |
| 800003422               | 40     | J33       | 23 |
| 800003424               | 40     | J6        | 23 |

# 5390-B

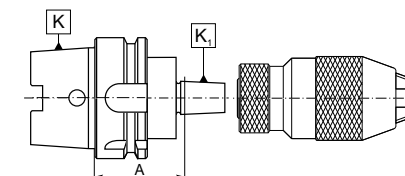
- Bohrfutteraufnahme DIN69893-A (HSK) für Bohrfutter mit Schaft DIN 238
- DIN69893-A (HSK) drill chuck adapters for DIN 238 taper



| Artikel Nr.<br>Code No. | K HSK-A | K, DIN | A  |
|-------------------------|---------|--------|----|
| 800000892               | 63      | B12    | 45 |
| 800000893               | 63      | B16    | 45 |
| 800000894               | 63      | B18    | 45 |

# 5390-J

- Bohrfutteraufnahme DIN69893-A (HSK) für Bohrfutter mit Jacobs Schaft
- DIN69893-A (HSK) drill chuck adapters for Jacobs taper



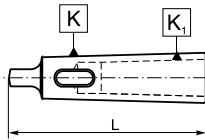
| Artikel Nr.<br>Code No. | K HSK-A | K, Jacobs | A  |
|-------------------------|---------|-----------|----|
| 800000895               | 63      | J1        | 45 |
| 800000896               | 63      | J2        | 45 |
| 800000897               | 63      | J3        | 45 |
| 800000898               | 63      | J33       | 45 |
| 800000899               | 63      | J4        | 45 |
| 800000900               | 63      | J5        | 45 |





## 1751

- Reduzierhülse für MK-Werkzeuge
- Reduction sleeves for Morse tapers



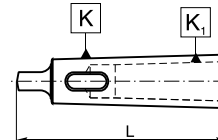
\* Komplett gehärtet, innen und außen geschliffen  
 \* completely hardened, grounded internally and externally

| Artikel Nr. | K MK | K <sub>1</sub> MK | L   |
|-------------|------|-------------------|-----|
| Code No.    | K MT | K <sub>1</sub> MT |     |
| 800000292   | 1    | 0                 | 85  |
| 800000293   | 2    | 1                 | 92  |
| 800000294   | 3    | 1                 | 99  |
| 800000295   | 3    | 2                 | 112 |
| 800000296   | 4    | 1                 | 124 |
| 800000297   | 4    | 2                 | 124 |
| 800000298   | 4    | 3                 | 140 |
| 800000299   | 5    | 1                 | 156 |
| 800000300   | 5    | 2                 | 156 |
| 800000301   | 5    | 3                 | 156 |
| 800000302   | 5    | 4                 | 174 |
| 800000303   | 6    | 2                 | 218 |
| 800000304   | 6    | 3                 | 218 |
| 800000305   | 6    | 4                 | 218 |
| 800000306   | 6    | 5                 | 218 |



## 1752

- Reduzierhülse für MK-Werkzeuge
- Reduction sleeves for Morse tapers



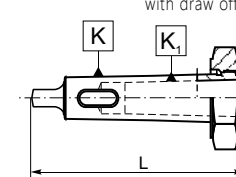
\* Führungsfläche gehärtet, innen und außen geschliffen  
 \* only tang is hardened, grounded internally and externally

| Artikel Nr. | K MK | K <sub>1</sub> MK | L   |
|-------------|------|-------------------|-----|
| Code No.    | K MT | K <sub>1</sub> MT |     |
| 800000308   | 2    | 1                 | 92  |
| 800000309   | 3    | 1                 | 99  |
| 800000310   | 3    | 2                 | 112 |
| 800000311   | 4    | 1                 | 124 |
| 800000312   | 4    | 2                 | 124 |
| 800000313   | 4    | 3                 | 140 |
| 800000314   | 5    | 1                 | 156 |
| 800000315   | 5    | 2                 | 156 |
| 800000316   | 5    | 3                 | 156 |
| 800000317   | 5    | 4                 | 174 |
| 800000318   | 6    | 2                 | 218 |
| 800000319   | 6    | 3                 | 218 |
| 800000320   | 6    | 4                 | 218 |
| 800000321   | 6    | 5                 | 218 |



## 1754

- Reduzierhülse für MK-Werkzeuge
- Reduction sleeves for Morse tapers with draw off nut

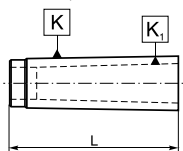


| Artikel Nr. | K MK | K <sub>1</sub> MK | L     |          |
|-------------|------|-------------------|-------|----------|
| Code No.    | K MT | K <sub>1</sub> MT |       |          |
| 800000322   | 2    | 1                 | 92,0  | S-0776/0 |
| 800000323   | 3    | 1                 | 119,0 | S-0778/0 |
| 800000324   | 3    | 2                 | 119,0 | S-0778/0 |
| 800000325   | 4    | 1                 | 146,5 | S-0778/0 |
| 800000326   | 4    | 2                 | 146,5 | S-0778/0 |
| 800000327   | 4    | 3                 | 146,5 | S-0778/0 |
| 800000328   | 5    | 2                 | 178,0 | S-0782/0 |
| 800000329   | 5    | 3                 | 178,0 | S-0782/0 |
| 800000330   | 5    | 4                 | 178,0 | S-0782/0 |
| 800000331   | 6    | 3                 | 245,0 | S-0784/0 |
| 800000332   | 6    | 4                 | 245,0 | S-0784/0 |
| 800000333   | 6    | 5                 | 245,0 | S-0784/0 |



## 1770

- Reduzierhülse für Werkzeuge mit MK-Schaft
- Spindle sleeves for tools with Morse taper shank

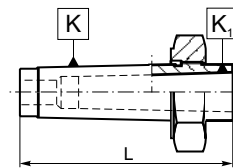


| Artikel Nr. | K MK       | K <sub>1</sub> MK | L   |
|-------------|------------|-------------------|-----|
| Code No.    | K MT       | K <sub>1</sub> MT |     |
| 800000450   | 2          | 1                 | 50  |
| 800000451   | 3          | 1                 | 55  |
| 800000452   | 3          | 2                 | 65  |
| 800000453   | 4          | 2                 | 70  |
| 800000454   | 4          | 3                 | 75  |
| 800000455   | 5          | 2                 | 80  |
| 800000456   | 5          | 3                 | 90  |
| 800000457   | 5          | 4                 | 100 |
| 800000458   | 6          | 3                 | 110 |
| 800000459   | 6          | 4                 | 120 |
| 800000460   | 6          | 5                 | 130 |
| Artikel Nr. | K Metrisch | K <sub>1</sub> MK | L   |
| Code No.    | K Metric   | K <sub>1</sub> MT |     |
| 800000461   | 80         | 5                 | 135 |
| 800000462   | 80         | 6                 | 170 |
| 800003999   | 100        | 5                 | 180 |
| 800000463   | 100        | 6                 | 180 |



## 1774

- Reduzierhülse für MK-Werkzeuge
- Spindle sleeves with draw off nut for Morse taper tools with drawbar thread

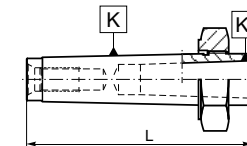


| Artikel Nr. | K MK | K <sub>1</sub> MK | L   |
|-------------|------|-------------------|-----|
| Code No.    | K MT | K <sub>1</sub> MT |     |
| 800000464   | 3    | 2                 | 80  |
| 800000465   | 4    | 2                 | 86  |
| 800000466   | 4    | 3                 | 91  |
| 800000467   | 5    | 2                 | 102 |
| 800000468   | 5    | 3                 | 112 |
| 800000469   | 5    | 4                 | 122 |
| 800000470   | 6    | 3                 | 137 |
| 800000471   | 6    | 4                 | 147 |
| 800000472   | 6    | 5                 | 157 |



## 1775

- Spindelhülse für Werkzeuge mit MK-Schaft
- Spindle sleeves with draw off nut for Morse taper tools with tang

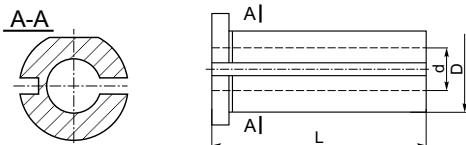


| Artikel Nr. | K MK | K <sub>1</sub> MK | L     |          |
|-------------|------|-------------------|-------|----------|
| Code No.    | K MT | K <sub>1</sub> MT |       |          |
| 800000473   | 2    | 1                 | 100,0 | S-0776/0 |
| 800000474   | 3    | 1                 | 112,0 | S-0778/0 |
| 800000475   | 3    | 2                 | 125,0 | S-0778/0 |
| 800000476   | 4    | 1                 | 135,5 | S-0778/0 |
| 800000477   | 4    | 2                 | 147,0 | S-0778/0 |
| 800000478   | 4    | 3                 | 165,0 | S-0778/0 |
| 800000479   | 5    | 2                 | 160,0 | S-0782/0 |
| 800000480   | 5    | 3                 | 167,0 | S-0782/0 |
| 800000481   | 5    | 4                 | 171,5 | S-0782/0 |
| 800000482   | 6    | 3                 | 217,0 | S-0784/0 |
| 800000483   | 6    | 4                 | 217,0 | S-0784/0 |
| 800000484   | 6    | 5                 | 217,0 | S-0784/0 |



## 1226

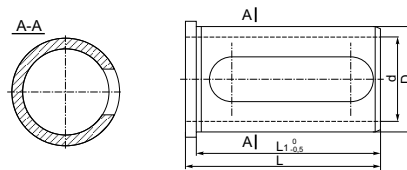
- VDI Reduzierhülse
- VDI reduction sleeve



| Artikel Nr.<br>Code No. | D  | d  | L  |
|-------------------------|----|----|----|
| 800000010               | 20 | 8  | 50 |
| 800000016               | 20 | 10 | 50 |
| 800000018               | 20 | 12 | 50 |
| 800000011               | 20 | 8  | 60 |
| 800000017               | 20 | 10 | 60 |
| 800000019               | 20 | 12 | 60 |
| 800000012               | 25 | 8  | 50 |
| 800000020               | 25 | 10 | 50 |
| 800000022               | 25 | 12 | 50 |
| 800000025               | 25 | 16 | 50 |
| 800000015               | 25 | 8  | 60 |
| 800000021               | 25 | 10 | 60 |
| 800000023               | 25 | 12 | 60 |
| 800000026               | 25 | 16 | 60 |
| 800000024               | 25 | 12 | 75 |
| 800000027               | 25 | 16 | 75 |
| 800000037               | 32 | 8  | 60 |
| 800000028               | 32 | 10 | 60 |
| 800000029               | 32 | 12 | 60 |
| 800000031               | 32 | 16 | 60 |
| 800000033               | 32 | 20 | 60 |
| 800000035               | 32 | 25 | 60 |
| 800000030               | 32 | 12 | 75 |
| 800000032               | 32 | 16 | 75 |
| 800000034               | 32 | 20 | 75 |
| 800000036               | 32 | 25 | 75 |
| 800000038               | 40 | 10 | 75 |
| 800000039               | 40 | 12 | 75 |
| 800000040               | 40 | 16 | 75 |
| 800000041               | 40 | 20 | 75 |
| 800000042               | 40 | 25 | 75 |
| 800000043               | 40 | 32 | 75 |
| 800000044               | 40 | 8  | 75 |
| 800000045               | 50 | 12 | 75 |
| 800000046               | 50 | 16 | 75 |
| 800000047               | 50 | 20 | 75 |
| 800000048               | 50 | 25 | 75 |
| 800000049               | 50 | 32 | 75 |
| 800000050               | 50 | 40 | 75 |

## 1247

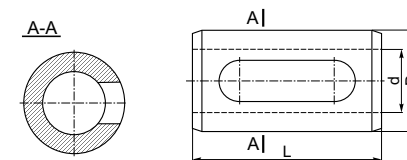
- VDI Reduzierhülse
- VDI reduction sleeve



| Artikel Nr.<br>Code No. | D  | d  | L  | L1 |
|-------------------------|----|----|----|----|
| 800003725               | 32 | 10 | 64 | 60 |
| 800003726               | 32 | 12 | 64 | 60 |
| 800003727               | 32 | 16 | 64 | 60 |
| 800003728               | 32 | 20 | 64 | 60 |
| 800003729               | 32 | 25 | 64 | 60 |
| 800003730               | 40 | 10 | 74 | 70 |
| 800003731               | 40 | 12 | 74 | 70 |
| 800003732               | 40 | 16 | 74 | 70 |
| 800003733               | 40 | 20 | 74 | 70 |
| 800003734               | 40 | 25 | 74 | 70 |
| 800003735               | 40 | 32 | 74 | 70 |

## 1248

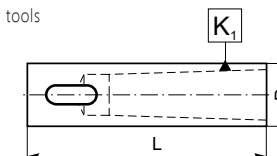
- VDI Reduzierhülse
- VDI reduction sleeve



| Artikel Nr.<br>Code No. | D  | d  | L  |
|-------------------------|----|----|----|
| 800000051               | 32 | 12 | 60 |
| 800000052               | 32 | 16 | 60 |
| 800000053               | 32 | 20 | 60 |
| 800000054               | 32 | 25 | 60 |

## 1875

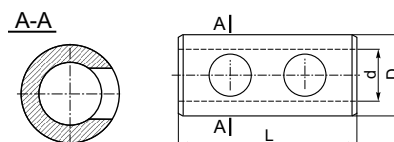
- Adapter für Werkzeuge mit MK-Schaft
- Cylindrical reduction sleeve for Morse taper tools



| Artikel Nr.<br>Code No. | D  | K1, MK<br>K1, MT | L   |
|-------------------------|----|------------------|-----|
| 800003500               | 20 | 1                | 75  |
| 800000533               | 25 | 1                | 75  |
| 800000545               | 25 | 1                | 89  |
| 800000534               | 25 | 2                | 75  |
| 800000546               | 25 | 2                | 100 |
| 800000547               | 32 | 1                | 89  |
| 800003501               | 32 | 1                | 100 |
| 800000535               | 32 | 2                | 100 |
| 800000536               | 32 | 3                | 100 |
| 800000540               | 32 | 3                | 120 |
| 800000548               | 40 | 1                | 89  |
| 800003502               | 40 | 1                | 100 |
| 800000537               | 40 | 2                | 100 |
| 800000538               | 40 | 3                | 100 |
| 800000541               | 40 | 3                | 120 |
| 800000539               | 40 | 4                | 120 |
| 800000542               | 40 | 4                | 152 |
| 800000549               | 50 | 2                | 100 |
| 800000543               | 50 | 3                | 120 |
| 800000544               | 50 | 4                | 152 |

## 1249

- VDI Reduzierhülse
- VDI reduction sleeve



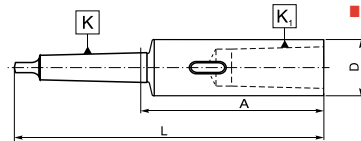
| Artikel Nr.<br>Code No. | D  | d  | L  |
|-------------------------|----|----|----|
| 800000055               | 20 | 8  | 48 |
| 800000056               | 20 | 10 | 48 |
| 800000057               | 20 | 12 | 48 |
| 800000058               | 20 | 16 | 48 |
| 800000059               | 25 | 5  | 55 |
| 800000060               | 25 | 8  | 55 |
| 800000061               | 25 | 10 | 55 |
| 800000062               | 25 | 12 | 55 |
| 800000063               | 25 | 16 | 55 |
| 800000064               | 25 | 18 | 55 |
| 800000065               | 25 | 20 | 55 |





## 1761

- Adapterhülsen für Werkzeuge mit MK-Schaft
- Extension sleeves for Morse tapers



\* Kompletzt gehärtet, innen und außen geschliffen  
\* completely hardened, grounded internally and externally

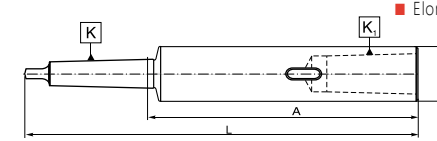
| Artikel Nr. | K MK | K <sub>1</sub> MK | L   | A     | D  |
|-------------|------|-------------------|-----|-------|----|
| Code No.    | K MT | K <sub>1</sub> MT |     |       |    |
| 800000334   | 1    | 1                 | 145 | 83,0  | 20 |
| 800000335   | 1    | 2                 | 160 | 98,0  | 30 |
| 800000336   | 1    | 3                 | 183 | 121,0 | 36 |
| 800000337   | 2    | 1                 | 160 | 85,0  | 20 |
| 800000338   | 2    | 2                 | 175 | 100,0 | 30 |
| 800000339   | 2    | 3                 | 196 | 121,0 | 36 |
| 800000340   | 2    | 4                 | 221 | 146,0 | 48 |
| 800000341   | 3    | 1                 | 175 | 81,0  | 20 |
| 800000342   | 3    | 2                 | 194 | 100,0 | 30 |
| 800000343   | 3    | 3                 | 215 | 121,0 | 36 |
| 800000344   | 3    | 4                 | 240 | 146,0 | 48 |
| 800000345   | 3    | 5                 | 275 | 181,0 | 63 |
| 800000346   | 4    | 1                 | 200 | 82,5  | 20 |
| 800000347   | 4    | 2                 | 215 | 97,5  | 30 |
| 800000348   | 4    | 3                 | 240 | 122,5 | 36 |

| Artikel Nr. | K MK | K <sub>1</sub> MK | L   | A     | D  |
|-------------|------|-------------------|-----|-------|----|
| Code No.    | K MT | K <sub>1</sub> MT |     |       |    |
| 800000349   | 4    | 4                 | 265 | 147,5 | 48 |
| 800000350   | 4    | 5                 | 300 | 182,5 | 63 |
| 800000351   | 4    | 6                 | 361 | 243,5 | 82 |
| 800000352   | 5    | 1                 | 232 | 82,5  | 20 |
| 800000353   | 5    | 2                 | 247 | 97,5  | 30 |
| 800000354   | 5    | 3                 | 268 | 118,5 | 36 |
| 800000355   | 5    | 4                 | 300 | 150,5 | 48 |
| 800000356   | 5    | 5                 | 335 | 185,5 | 63 |
| 800000357   | 5    | 6                 | 396 | 246,5 | 82 |
| 800000358   | 6    | 1                 | 294 | 84,0  | 20 |
| 800000359   | 6    | 2                 | 309 | 99,0  | 30 |
| 800000360   | 6    | 3                 | 330 | 120,0 | 36 |
| 800000361   | 6    | 4                 | 355 | 145,0 | 48 |
| 800000362   | 6    | 5                 | 390 | 180,0 | 63 |
| 800000363   | 6    | 6                 | 451 | 241,0 | 82 |



## 1764

- Verlängerungshülsen für Werkzeuge mit MK-Schaft
- Elongating sleeves for Morse tapers



\* Kompletzt gehärtet, innen und außen geschliffen  
\* completely hardened, grounded internally and externally

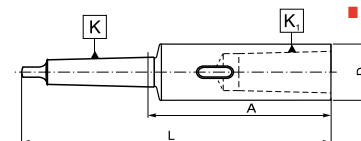
| Artikel Nr. | K MK | K <sub>1</sub> MK | L   | A     | D  |
|-------------|------|-------------------|-----|-------|----|
| Code No.    | K MT | K <sub>1</sub> MT |     |       |    |
| 800000394   | 1    | 1                 | 200 | 138,0 | 20 |
| 800000395   | 1    | 1                 | 250 | 188,0 | 20 |
| 800000396   | 1    | 1                 | 300 | 238,0 | 20 |
| 800000397   | 1    | 1                 | 350 | 288,0 | 20 |
| 800000398   | 1    | 1                 | 400 | 338,0 | 20 |
| 800000399   | 1    | 1                 | 450 | 388,0 | 20 |
| 800000400   | 1    | 1                 | 500 | 438,0 | 20 |
| 800000401   | 2    | 2                 | 200 | 125,0 | 25 |
| 800000402   | 2    | 2                 | 250 | 175,0 | 25 |
| 800000403   | 2    | 2                 | 300 | 225,0 | 25 |
| 800000404   | 2    | 2                 | 350 | 275,0 | 25 |
| 800000405   | 2    | 2                 | 400 | 325,0 | 25 |
| 800000406   | 2    | 2                 | 450 | 375,0 | 25 |
| 800000407   | 2    | 2                 | 500 | 425,0 | 25 |

| Artikel Nr. | K MK | K <sub>1</sub> MK | L   | A     | D  |
|-------------|------|-------------------|-----|-------|----|
| Code No.    | K MT | K <sub>1</sub> MT |     |       |    |
| 800000408   | 2    | 2                 | 600 | 525,0 | 25 |
| 800000409   | 3    | 3                 | 250 | 156,0 | 32 |
| 800000410   | 3    | 3                 | 300 | 206,0 | 32 |
| 800000411   | 3    | 3                 | 350 | 256,0 | 32 |
| 800000412   | 3    | 3                 | 400 | 306,0 | 32 |
| 800000413   | 3    | 3                 | 450 | 356,0 | 32 |
| 800000414   | 3    | 3                 | 500 | 406,0 | 32 |
| 800000415   | 3    | 3                 | 600 | 506,0 | 32 |
| 800000416   | 4    | 4                 | 300 | 182,5 | 40 |
| 800000417   | 4    | 4                 | 350 | 232,5 | 40 |
| 800000418   | 4    | 4                 | 400 | 282,5 | 40 |
| 800000419   | 4    | 4                 | 450 | 332,5 | 40 |
| 800000420   | 4    | 4                 | 500 | 382,5 | 40 |
| 800000421   | 4    | 4                 | 600 | 482,5 | 40 |



## 1762

- Adapterhülsen für Werkzeuge mit MK-Schaft
- Extension sleeves for Morse tapers



\* Führungsfläche gehärtet, innen und außen geschliffen  
\* only tang is hardened, grounded internally and externally

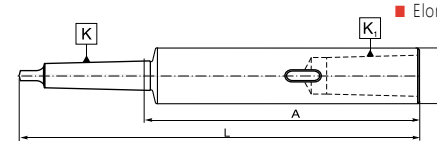
| Artikel Nr. | K MK | K <sub>1</sub> MK | L   | A     | D  |
|-------------|------|-------------------|-----|-------|----|
| Code No.    | K MT | K <sub>1</sub> MT |     |       |    |
| 800000364   | 1    | 1                 | 145 | 83,0  | 20 |
| 800000365   | 1    | 2                 | 160 | 98,0  | 30 |
| 800000366   | 1    | 3                 | 183 | 121,0 | 36 |
| 800000367   | 2    | 1                 | 160 | 85,0  | 20 |
| 800000368   | 2    | 2                 | 175 | 100,0 | 30 |
| 800000369   | 2    | 3                 | 196 | 121,0 | 36 |
| 800000370   | 2    | 4                 | 221 | 146,0 | 48 |
| 800000371   | 3    | 1                 | 175 | 81,0  | 20 |
| 800000372   | 3    | 2                 | 194 | 100,0 | 30 |
| 800000373   | 3    | 3                 | 215 | 121,0 | 36 |
| 800000374   | 3    | 4                 | 240 | 146,0 | 48 |
| 800000375   | 3    | 5                 | 275 | 181,0 | 63 |
| 800000376   | 4    | 1                 | 200 | 82,5  | 20 |
| 800000377   | 4    | 2                 | 215 | 97,5  | 30 |
| 800000378   | 4    | 3                 | 240 | 122,5 | 36 |

| Artikel Nr. | K MK | K <sub>1</sub> MK | L   | A     | D  |
|-------------|------|-------------------|-----|-------|----|
| Code No.    | K MT | K <sub>1</sub> MT |     |       |    |
| 800000379   | 4    | 4                 | 265 | 147,5 | 48 |
| 800000380   | 4    | 5                 | 300 | 182,5 | 63 |
| 800000381   | 4    | 6                 | 361 | 243,5 | 82 |
| 800000382   | 5    | 1                 | 232 | 82,5  | 20 |
| 800000383   | 5    | 2                 | 247 | 97,5  | 30 |
| 800000384   | 5    | 3                 | 268 | 118,5 | 36 |
| 800000385   | 5    | 4                 | 300 | 150,5 | 48 |
| 800000386   | 5    | 5                 | 335 | 185,5 | 63 |
| 800000387   | 5    | 6                 | 396 | 246,5 | 82 |
| 800000388   | 6    | 1                 | 294 | 84,0  | 20 |
| 800000389   | 6    | 2                 | 309 | 99,0  | 30 |
| 800000390   | 6    | 3                 | 330 | 120,0 | 36 |
| 800000391   | 6    | 4                 | 355 | 145,0 | 48 |
| 800000392   | 6    | 5                 | 390 | 180,0 | 63 |
| 800000393   | 6    | 6                 | 451 | 241,0 | 82 |



## 1765

- Verlängerungshülsen für Werkzeuge mit MK-Schaft
- Elongating sleeves for Morse tapers



\* Führungsfläche gehärtet, innen und außen geschliffen  
\* only tang is hardened, grounded internally and externally

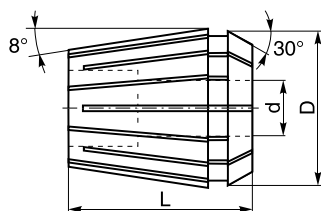
| Artikel Nr. | K MK | K <sub>1</sub> MK | L   | A     | D  |
|-------------|------|-------------------|-----|-------|----|
| Code No.    | K MT | K <sub>1</sub> MT |     |       |    |
| 800000422   | 1    | 1                 | 200 | 138,0 | 20 |
| 800000423   | 1    | 1                 | 250 | 188,0 | 20 |
| 800000424   | 1    | 1                 | 300 | 238,0 | 20 |
| 800000425   | 1    | 1                 | 350 | 288,0 | 20 |
| 800000426   | 1    | 1                 | 400 | 338,0 | 20 |
| 800000427   | 1    | 1                 | 450 | 388,0 | 20 |
| 800000428   | 1    | 1                 | 500 | 438,0 | 20 |
| 800000429   | 2    | 2                 | 200 | 125,0 | 25 |
| 800000430   | 2    | 2                 | 250 | 175,0 | 25 |
| 800000431   | 2    | 2                 | 300 | 225,0 | 25 |
| 800000432   | 2    | 2                 | 350 | 275,0 | 25 |
| 800000433   | 2    | 2                 | 400 | 325,0 | 25 |
| 800000434   | 2    | 2                 | 450 | 375,0 | 25 |
| 800000435   | 2    | 2                 | 500 | 425,0 | 25 |

| Artikel Nr. | K MK | K <sub>1</sub> MK | L   | A     | D  |
|-------------|------|-------------------|-----|-------|----|
| Code No.    | K MT | K <sub>1</sub> MT |     |       |    |
| 800000436   | 2    | 2                 | 600 | 525,0 | 25 |
| 800000437   | 3    | 3                 | 250 | 156,0 | 32 |
| 800000438   | 3    | 3                 | 300 | 206,0 | 32 |
| 800000439   | 3    | 3                 | 350 | 256,0 | 32 |
| 800000440   | 3    | 3                 | 400 | 306,0 | 32 |
| 800000441   | 3    | 3                 | 450 | 356,0 | 32 |
| 800000442   | 3    | 3                 | 500 | 406,0 | 32 |
| 800000443   | 3    | 3                 | 600 | 506,0 | 32 |
| 800000444   | 4    | 4                 | 300 | 182,5 | 40 |
| 800000445   | 4    | 4                 | 350 | 232,5 | 40 |
| 800000446   | 4    | 4                 | 400 | 282,5 | 40 |
| 800000447   | 4    | 4                 | 450 | 332,5 | 40 |
| 800000448   | 4    | 4                 | 500 | 382,5 | 40 |
| 800000449   | 4    | 4                 | 600 | 482,5 | 40 |



# 7618

- Spannzange ER (DIN 6499)  
für Werkzeuge mit Zylinderschaft
- ER collets (DIN 6499)



| Artikel Nr. | Spannzangen | Spannbereich (d)   | D  | L    |
|-------------|-------------|--------------------|----|------|
| Code No.    | Collet      | Clamping range (d) |    |      |
| 800001829   | ER16        | 3-2,5              | 17 | 27,5 |
| 800006967   | ER16        | 3,5-3              | 17 | 27,5 |
| 800001830   | ER16        | 4-3,5              | 17 | 27,5 |
| 800006968   | ER16        | 4,5-4              | 17 | 27,5 |
| 800001831   | ER16        | 5-4,5              | 17 | 27,5 |
| 800006969   | ER16        | 5,5-5              | 17 | 27,5 |
| 800001832   | ER16        | 6-5,5              | 17 | 27,5 |
| 800001833   | ER16        | 7-6                | 17 | 27,5 |
| 800001834   | ER16        | 8-7                | 17 | 27,5 |
| 800001835   | ER16        | 9-8                | 17 | 27,5 |
| 800001836   | ER16        | 10-9               | 17 | 27,5 |
| 800001837   | ER20        | 3-2,5              | 21 | 31,5 |
| 800006970   | ER20        | 3,5-3              | 21 | 31,5 |
| 800001838   | ER20        | 4-3,5              | 21 | 31,5 |
| 800006971   | ER20        | 4,5-4              | 21 | 31,5 |
| 800001839   | ER20        | 5-4,5              | 21 | 31,5 |
| 800006972   | ER20        | 5,5-5              | 21 | 31,5 |
| 800001840   | ER20        | 6-5,5              | 21 | 31,5 |
| 800001841   | ER20        | 7-6                | 21 | 31,5 |
| 800001842   | ER20        | 8-7                | 21 | 31,5 |
| 800001843   | ER20        | 9-8                | 21 | 31,5 |
| 800001844   | ER20        | 10-9               | 21 | 31,5 |
| 800001845   | ER20        | 11-10              | 21 | 31,5 |
| 800001846   | ER20        | 12-11              | 21 | 31,5 |
| 800001847   | ER20        | 13-12              | 21 | 31,5 |
| 800001849   | ER25        | 3-2,5              | 26 | 34   |
| 800006973   | ER25        | 3,5-3              | 26 | 34   |
| 800001850   | ER25        | 4-3,5              | 26 | 34   |
| 800006974   | ER25        | 4,5-4              | 26 | 34   |
| 800001851   | ER25        | 5-4,5              | 26 | 34   |

| Artikel Nr. | Spannzangen | Spannbereich (d)   | D  | L    |
|-------------|-------------|--------------------|----|------|
| Code No.    | Collet      | Clamping range (d) |    |      |
| 800006975   | ER25        | 5,5-5              | 26 | 34   |
| 800001852   | ER25        | 6-5,5              | 26 | 34   |
| 800001853   | ER25        | 7-6                | 26 | 34,0 |
| 800001854   | ER25        | 8-7                | 26 | 34,0 |
| 800001855   | ER25        | 9-8                | 26 | 34,0 |
| 800001856   | ER25        | 10-9               | 26 | 34,0 |
| 800001857   | ER25        | 11-10              | 26 | 34,0 |
| 800001858   | ER25        | 12-11              | 26 | 34,0 |
| 800001859   | ER25        | 13-12              | 26 | 34,0 |
| 800001860   | ER25        | 14-13              | 26 | 34,0 |
| 800001861   | ER25        | 15-14              | 26 | 34,0 |
| 800001862   | ER25        | 16-15              | 26 | 34,0 |
| 800001863   | ER32        | 3-2,5              | 33 | 40   |
| 800006976   | ER32        | 3,5-3              | 33 | 40   |
| 800001864   | ER32        | 4-3,5              | 33 | 40   |
| 800006977   | ER32        | 4,5-4              | 33 | 40   |
| 800001865   | ER32        | 5-4,5              | 33 | 40   |
| 800006978   | ER32        | 5,5-5              | 33 | 40   |
| 800001866   | ER32        | 6-5,5              | 33 | 40   |
| 800001867   | ER32        | 7-6                | 33 | 40,0 |
| 800001868   | ER32        | 8-7                | 33 | 40,0 |
| 800001869   | ER32        | 9-8                | 33 | 40,0 |
| 800001870   | ER32        | 10-9               | 33 | 40,0 |
| 800001871   | ER32        | 11-10              | 33 | 40,0 |
| 800001872   | ER32        | 12-11              | 33 | 40,0 |
| 800001873   | ER32        | 13-12              | 33 | 40,0 |
| 800001874   | ER32        | 14-13              | 33 | 40,0 |
| 800001875   | ER32        | 15-14              | 33 | 40,0 |
| 800001876   | ER32        | 16-15              | 33 | 40,0 |
| 800001877   | ER32        | 17-16              | 33 | 40,0 |
| 800001878   | ER32        | 18-17              | 33 | 40,0 |
| 800001879   | ER32        | 19-18              | 33 | 40,0 |
| 800001880   | ER32        | 20-19              | 33 | 40,0 |
| 800001881   | ER40        | 3-2,5              | 41 | 46   |
| 800006979   | ER40        | 3,5-3              | 41 | 46   |
| 800001882   | ER40        | 4-3,5              | 41 | 46   |
| 800006980   | ER40        | 4,5-4              | 41 | 46   |
| 800001883   | ER40        | 5-4,5              | 41 | 46   |
| 800006981   | ER40        | 5,5-5              | 41 | 46   |
| 800001884   | ER40        | 6-5,5              | 41 | 46   |
| 800001885   | ER40        | 7-6                | 41 | 46,0 |
| 800001886   | ER40        | 8-7                | 41 | 46,0 |
| 800001887   | ER40        | 9-8                | 41 | 46,0 |
| 800001888   | ER40        | 10-9               | 41 | 46,0 |
| 800001889   | ER40        | 11-10              | 41 | 46,0 |
| 800001890   | ER40        | 12-11              | 41 | 46,0 |
| 800001891   | ER40        | 13-12              | 41 | 46,0 |
| 800001892   | ER40        | 14-13              | 41 | 46,0 |
| 800001893   | ER40        | 15-14              | 41 | 46,0 |
| 800001894   | ER40        | 16-15              | 41 | 46,0 |
| 800001895   | ER40        | 17-16              | 41 | 46,0 |
| 800001896   | ER40        | 18-17              | 41 | 46,0 |
| 800001897   | ER40        | 19-18              | 41 | 46,0 |
| 800001898   | ER40        | 20-19              | 41 | 46,0 |
| 800001899   | ER40        | 21-20              | 41 | 46,0 |
| 800001900   | ER40        | 22-21              | 41 | 46,0 |
| 800001901   | ER40        | 23-22              | 41 | 46,0 |
| 800001902   | ER40        | 24-23              | 41 | 46,0 |
| 800001903   | ER40        | 25-24              | 41 | 46,0 |
| 800001904   | ER40        | 26-25              | 41 | 46,0 |

# 7618-KPL

- ER-Spannzangen - Komplet-Set (DIN 6499)
- ER collets - set (DIN 6499)



| Artikel Nr. | Spannzangen | Spannbereich   | Teilung       |
|-------------|-------------|----------------|---------------|
| Code No.    | Collet      | Clamping range | Full set pcs. |
| 800001905   | ER16        | 2-10           | 8             |
| 800001906   | ER20        | 2-13           | 11            |
| 800001907   | ER25        | 2-16           | 14            |
| 800001908   | ER32        | 2-20           | 18            |
| 800001909   | ER40        | 2-26           | 24            |

# 7600-KPL

# 7600-PL

# 7600-S PL

- Spannzange ER - Komplet- Set oder Satz (ohne Aufnahme) für SA, BT, DIN
- ER collets (DIN 6499) – set or small set



| Artikel Nr. | Größe              | 7:24   | Spannzangen pro Satz                                                                       | Teilung        | Spannbereich   | Max. Größe des Werkzeughalters |
|-------------|--------------------|--------|--------------------------------------------------------------------------------------------|----------------|----------------|--------------------------------|
| Code No.    | Size               |        | Collets included in set                                                                    | Collets in set | Clamping range | Max. toolholder size           |
| 800003707   | 30-16-8-80KPL      | 30     | 16-3, 4, 5, 6, 7, 8, 9, 10                                                                 | 8              | 2-10           | 80                             |
| 800003708   | 30/40-32-8-80PL    | 30, 40 | 32-6, 8, 10, 12, 14, 16, 18, 20                                                            | 8              | 5-20           | 80                             |
| 800003709   | 30/40-32-8-80PL    | 30, 40 | 32-4, 5, 6, 8, 10, 12, 16, 20                                                              | 8              | 3-20           | 80                             |
| 800003710   | 30/40-32-18-80KPL  | 30, 40 | 32-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20                         | 18             | 2-20           | 80                             |
| 800003711   | 40-16-8-150S       | 40     | 16-3, 4, 5, 6, 7, 8, 9, 10                                                                 | 8              | 2-10           | 150                            |
| 800003712   | 40-25-14-60KPL     | 40     | 25-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16                                         | 14             | 2-16           | 60                             |
| 800003713   | 40-32-10-70PL      | 40     | 32-3, 4, 6, 8, 10, 12, 14, 16, 18, 20                                                      | 10             | 2-20           | 70                             |
| 800003714   | 40-32-18-80-130KPL | 40     | 32-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20                         | 18             | 2-20           | 80-130                         |
| 800003715   | 40-40-24-80KPL     | 40     | 40-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 | 24             | 2-26           | 80                             |
| 800003716   | 50-16-8-150S PL    | 50     | 16-3, 4, 5, 6, 7, 8, 9, 10                                                                 | 8              | 2-10           | 150                            |
| 800006825   | 50-32-8-70PL       | 50     | 32-4, 5, 6, 8, 10, 12, 16, 20                                                              | 8              | 3-20           | 70                             |
| 800003717   | 50-32-18-130KPL    | 50     | 32-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20                         | 18             | 2-20           | 130                            |
| 800003718   | 50-40-24-130KPL    | 50     | 40-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 | 24             | 2-26           | 130                            |

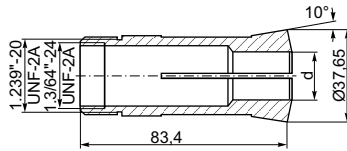
KPL - Komplet-Set mit Freifläche für Werkzeughalter • set with empty space for toolholder  
PL - Satz mit Freifläche für Werkzeughalter • small set with empty space for toolholder  
S PL - Satz mit Freifläche für schmalen Werkzeughalter • small set with empty space for slim design toolholder





## 3000

- Spannzange 5C (385E)
- 5C (385E) collets



| Artikel Nr. | Grösse  | d    | Artikel Nr. | Grösse  | d    |
|-------------|---------|------|-------------|---------|------|
| Code No.    | Size    |      | Code No.    | Size    |      |
| 800000604   | 5C-3    | 3    | 800000628   | 5C-15   | 15   |
| 800000605   | 5C-3,5  | 3,5  | 800000629   | 5C-15,5 | 15,5 |
| 800000606   | 5C-4    | 4    | 800000630   | 5C-16   | 16   |
| 800000607   | 5C-4,5  | 4,5  | 800000631   | 5C-16,5 | 16,5 |
| 800000608   | 5C-5    | 5    | 800000632   | 5C-17   | 17   |
| 800000609   | 5C-5,5  | 5,5  | 800000633   | 5C-17,5 | 17,5 |
| 800000610   | 5C-6    | 6    | 800000634   | 5C-18   | 18   |
| 800000611   | 5C-6,5  | 6,5  | 800000635   | 5C-18,5 | 18,5 |
| 800000612   | 5C-7    | 7    | 800000636   | 5C-19   | 19   |
| 800000613   | 5C-7,5  | 7,5  | 800000637   | 5C-19,5 | 19,5 |
| 800000614   | 5C-8    | 8    | 800000638   | 5C-20   | 20   |
| 800000615   | 5C-8,5  | 8,5  | 800000639   | 5C-20,5 | 20,5 |
| 800000616   | 5C-9    | 9    | 800000640   | 5C-21   | 21   |
| 800000617   | 5C-9,5  | 9,5  | 800000641   | 5C-21,5 | 21,5 |
| 800000618   | 5C-10   | 10   | 800000642   | 5C-22   | 22   |
| 800000619   | 5C-10,5 | 10,5 | 800000643   | 5C-22,5 | 22,5 |
| 800000620   | 5C-11   | 11   | 800000644   | 5C-23   | 23   |
| 800000621   | 5C-11,5 | 11,5 | 800000645   | 5C-23,5 | 23,5 |
| 800000622   | 5C-12   | 12   | 800000646   | 5C-24   | 24   |
| 800000623   | 5C-12,5 | 12,5 | 800000647   | 5C-24,5 | 24,5 |
| 800000624   | 5C-13   | 13   | 800000648   | 5C-25   | 25   |
| 800000625   | 5C-13,5 | 13,5 | 800005510   | 5C-25,5 | 25,5 |
| 800000626   | 5C-14   | 14   | 800003724   | 5C-26   | 26   |
| 800000627   | 5C-14,5 | 14,5 |             |         |      |



## 3000-KPL

- Spannzangen 5C (385E) im Komplet-Set
- 5C (385E) collets - set

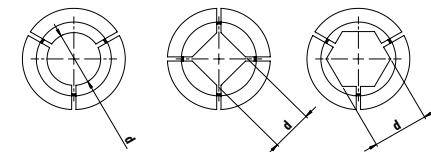
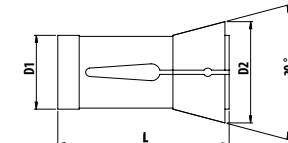
| Artikel Nr. | Spannzangen | Spannbereich   | Teilung        |
|-------------|-------------|----------------|----------------|
| Code No.    | Collet size | Clamping range | Collets in set |
| 800000649   | 5C          | 3-26           | 24             |
| 800000650   | 5C          | 3-25           | 45             |

| Artikel Nr. | Type       | D <sub>1</sub> | D <sub>2</sub> | L  | d  | Form Shape |
|-------------|------------|----------------|----------------|----|----|------------|
| Code No.    | Type       |                |                |    |    |            |
| 800006017   | 173E-4-EG  | 48             | 60             | 94 | 4  | ○          |
| 800006074   | 173E-5-EG  | 48             | 60             | 94 | 5  | ○          |
| 800006075   | 173E-6-EG  | 48             | 60             | 94 | 6  | ○          |
| 800006076   | 173E-7-EG  | 48             | 60             | 94 | 7  | ○          |
| 800006007   | 173E-8-EG  | 48             | 60             | 94 | 8  | ○          |
| 800006008   | 173E-9-EG  | 48             | 60             | 94 | 9  | ○          |
| 800006077   | 173E-9-EO  | 48             | 60             | 94 | 9  | ○          |
| 800006045   | 173E-10-EO | 48             | 60             | 94 | 10 | ○          |
| 800006078   | 173E-11-EO | 48             | 60             | 94 | 11 | ○          |
| 800006009   | 173E-12-EO | 48             | 60             | 94 | 12 | ○          |
| 800006079   | 173E-13-EO | 48             | 60             | 94 | 13 | ○          |
| 800006025   | 173E-14-EO | 48             | 60             | 94 | 14 | ○          |
| 800006046   | 173E-15-EO | 48             | 60             | 94 | 15 | ○          |
| 800006080   | 173E-16-EO | 48             | 60             | 94 | 16 | ○          |
| 800006081   | 173E-17-EO | 48             | 60             | 94 | 17 | ○          |
| 800006034   | 173E-18-EO | 48             | 60             | 94 | 18 | ○          |
| 800006082   | 173E-19-EO | 48             | 60             | 94 | 19 | ○          |
| 800006026   | 173E-20-EO | 48             | 60             | 94 | 20 | ○          |
| 800006083   | 173E-21-EO | 48             | 60             | 94 | 21 | ○          |
| 800006084   | 173E-22-EO | 48             | 60             | 94 | 22 | ○          |
| 800006085   | 173E-23-EO | 48             | 60             | 94 | 23 | ○          |
| 800006086   | 173E-24-EO | 48             | 60             | 94 | 24 | ○          |
| 800006027   | 173E-25-EO | 48             | 60             | 94 | 25 | ○          |
| 800006087   | 173E-26-EO | 48             | 60             | 94 | 26 | ○          |
| 800006088   | 173E-27-EO | 48             | 60             | 94 | 27 | ○          |
| 800006089   | 173E-28-EO | 48             | 60             | 94 | 28 | ○          |
| 800006090   | 173E-29-EO | 48             | 60             | 94 | 29 | ○          |
| 800006091   | 173E-30-EO | 48             | 60             | 94 | 30 | ○          |
| 800006092   | 173E-31-EO | 48             | 60             | 94 | 31 | ○          |
| 800006035   | 173E-32-EO | 48             | 60             | 94 | 32 | ○          |
| 800006093   | 173E-33-EO | 48             | 60             | 94 | 33 | ○          |
| 800006094   | 173E-34-EO | 48             | 60             | 94 | 34 | ○          |
| 800006095   | 173E-35-EO | 48             | 60             | 94 | 35 | ○          |
| 800006096   | 173E-36-EO | 48             | 60             | 94 | 36 | ○          |
| 800006097   | 173E-37-EO | 48             | 60             | 94 | 37 | ○          |
| 800006098   | 173E-38-EO | 48             | 60             | 94 | 38 | ○          |
| 800006099   | 173E-39-EO | 48             | 60             | 94 | 39 | ○          |
| 800006100   | 173E-40-EO | 48             | 60             | 94 | 40 | ○          |
| 800006020   | 173E-41-EO | 48             | 60             | 94 | 41 | ○          |
| 800006041   | 173E-42-EO | 48             | 60             | 94 | 42 | ○          |
| 800006120   | 173E-4-K   | 48             | 60             | 94 | 4  | □          |
| 800006121   | 173E-5-K   | 48             | 60             | 94 | 5  | □          |
| 800006048   | 173E-6-K   | 48             | 60             | 94 | 6  | □          |
| 800006122   | 173E-7-K   | 48             | 60             | 94 | 7  | □          |
| 800006123   | 173E-8-K   | 48             | 60             | 94 | 8  | □          |
| 800006124   | 173E-9-K   | 48             | 60             | 94 | 9  | □          |
| 800006125   | 173E-10-K  | 48             | 60             | 94 | 10 | □          |
| 800006126   | 173E-11-K  | 48             | 60             | 94 | 11 | □          |
| 800006272   | 173E-12-K  | 48             | 60             | 94 | 12 | □          |
| 800006127   | 173E-13-K  | 48             | 60             | 94 | 13 | □          |
| 800006128   | 173E-14-K  | 48             | 60             | 94 | 14 | □          |
| 800006129   | 173E-16-K  | 48             | 60             | 94 | 16 | □          |
| 800006130   | 173E-18-K  | 48             | 60             | 94 | 18 | □          |
| 800006131   | 173E-20-K  | 48             | 60             | 94 | 20 | □          |
| 800006132   | 173E-22-K  | 48             | 60             | 94 | 22 | □          |
| 800006133   | 173E-24-K  | 48             | 60             | 94 | 24 | □          |



## 3010-173E

- Spannzange DIN 6343
- Dead lenght collets 173E (DIN 6343)



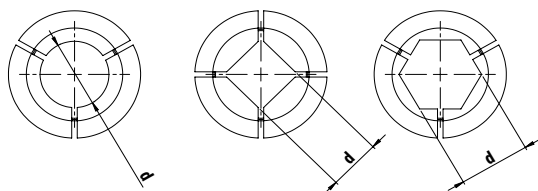
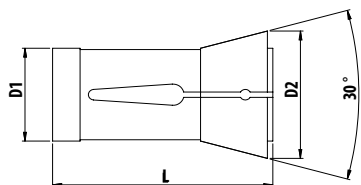
| Artikel Nr. | Type      | D <sub>1</sub> | D <sub>2</sub> | L  | d  | Form Shape |
|-------------|-----------|----------------|----------------|----|----|------------|
| Code No.    | Type      |                |                |    |    |            |
| 800006134   | 173E-25-K | 48             | 60             | 94 | 25 | □          |
| 800006135   | 173E-28-K | 48             | 60             | 94 | 28 | □          |
| 800006136   | 173E-30-K | 48             | 60             | 94 | 30 | □          |
| 800006101   | 173E-4-S  | 48             | 60             | 94 | 4  | ○          |
| 800006102   | 173E-5-S  | 48             | 60             | 94 | 5  | ○          |
| 800006103   | 173E-6-S  | 48             | 60             | 94 | 6  | ○          |
| 800006104   | 173E-7-S  | 48             | 60             | 94 | 7  | ○          |
| 800006105   | 173E-8-S  | 48             | 60             | 94 | 8  | ○          |
| 800006106   | 173E-9-S  | 48             | 60             | 94 | 9  | ○          |
| 800006107   | 173E-10-S | 48             | 60             | 94 | 10 | ○          |
| 800006108   | 173E-11-S | 48             | 60             | 94 | 11 | ○          |
| 800006109   | 173E-12-S | 48             | 60             | 94 | 12 | ○          |
| 800006110   | 173E-13-S | 48             | 60             | 94 | 13 | ○          |
| 800006111   | 173E-14-S | 48             | 60             | 94 | 14 | ○          |
| 800006112   | 173E-15-S | 48             | 60             | 94 | 15 | ○          |
| 800006113   | 173E-16-S | 48             | 60             | 94 | 16 | ○          |
| 800006114   | 173E-17-S | 48             | 60             | 94 | 17 | ○          |
| 800006115   | 173E-19-S | 48             | 60             | 94 | 19 | ○          |
| 800006116   | 173E-22-S | 48             | 60             | 94 | 22 | ○          |
| 800006117   | 173E-24-S | 48             | 60             | 94 | 24 | ○          |
| 800006118   | 173E-27-S | 48             | 60             | 94 | 27 | ○          |
| 800006047   | 173E-30-S | 48             | 60             | 94 | 30 | ○          |
| 800006119   | 173E-32-S | 48             | 60             | 94 | 32 | ○          |
| 800006021   | 173E-36-S | 48             | 60             | 94 | 36 | ○          |

EG - Runde Ausführung und glatt • Round and clean  
EO - Runde Ausführung und geriffelte Oberfläche • Round with grooved surface  
S - Sechskant • Hexagon  
K - Vierkant • Square



## 3010-185E

- Spannzange DIN 6343
- Dead lenght collets 185E (DIN 6343)



| Artikel Nr.<br>Code No. | Typ<br>Type | D <sub>1</sub> | D <sub>2</sub> | L   | d  | Form<br>Shape |
|-------------------------|-------------|----------------|----------------|-----|----|---------------|
| 800006138               | 185E-4-EG   | 66             | 84             | 110 | 4  | ○             |
| 800006139               | 185E-5-EG   | 66             | 84             | 110 | 5  | ○             |
| 800006013               | 185E-6-EG   | 66             | 84             | 110 | 6  | ○             |
| 800006140               | 185E-7-EG   | 66             | 84             | 110 | 7  | ○             |
| 800006037               | 185E-8-EG   | 66             | 84             | 110 | 8  | ○             |
| 800006141               | 185E-9-EG   | 66             | 84             | 110 | 9  | ○             |
| 800006142               | 185E-9-EO   | 66             | 84             | 110 | 9  | ○             |
| 800006029               | 185E-10-EO  | 66             | 84             | 110 | 10 | ○             |
| 800006143               | 185E-11-EO  | 66             | 84             | 110 | 11 | ○             |
| 800006014               | 185E-12-EO  | 66             | 84             | 110 | 12 | ○             |
| 800006144               | 185E-13-EO  | 66             | 84             | 110 | 13 | ○             |
| 800006015               | 185E-14-EO  | 66             | 84             | 110 | 14 | ○             |
| 800006016               | 185E-15-EO  | 66             | 84             | 110 | 15 | ○             |
| 800006145               | 185E-16-EO  | 66             | 84             | 110 | 16 | ○             |
| 800006146               | 185E-17-EO  | 66             | 84             | 110 | 17 | ○             |
| 800006147               | 185E-18-EO  | 66             | 84             | 110 | 18 | ○             |
| 800006148               | 185E-19-EO  | 66             | 84             | 110 | 19 | ○             |
| 800006149               | 185E-20-EO  | 66             | 84             | 110 | 20 | ○             |

| Artikel Nr.<br>Code No. | Typ<br>Type | D <sub>1</sub> | D <sub>2</sub> | L   | d  | Form<br>Shape |
|-------------------------|-------------|----------------|----------------|-----|----|---------------|
| 800006030               | 185E-21-EO  | 66             | 84             | 110 | 21 | ○             |
| 800006150               | 185E-22-EO  | 66             | 84             | 110 | 22 | ○             |
| 800006151               | 185E-23-EO  | 66             | 84             | 110 | 23 | ○             |
| 800006152               | 185E-24-EO  | 66             | 84             | 110 | 24 | ○             |
| 800006153               | 185E-25-EO  | 66             | 84             | 110 | 25 | ○             |
| 800006154               | 185E-26-EO  | 66             | 84             | 110 | 26 | ○             |
| 800006155               | 185E-27-EO  | 66             | 84             | 110 | 27 | ○             |
| 800006049               | 185E-28-EO  | 66             | 84             | 110 | 28 | ○             |
| 800006156               | 185E-29-EO  | 66             | 84             | 110 | 29 | ○             |
| 800006157               | 185E-30-EO  | 66             | 84             | 110 | 30 | ○             |
| 800006158               | 185E-31-EO  | 66             | 84             | 110 | 31 | ○             |
| 800006031               | 185E-32-EO  | 66             | 84             | 110 | 32 | ○             |
| 800006159               | 185E-33-EO  | 66             | 84             | 110 | 33 | ○             |
| 800006160               | 185E-34-EO  | 66             | 84             | 110 | 34 | ○             |
| 800006161               | 185E-35-EO  | 66             | 84             | 110 | 35 | ○             |
| 800006032               | 185E-36-EO  | 66             | 84             | 110 | 36 | ○             |
| 800006162               | 185E-37-EO  | 66             | 84             | 110 | 37 | ○             |
| 800006163               | 185E-38-EO  | 66             | 84             | 110 | 38 | ○             |
| 800006164               | 185E-39-EO  | 66             | 84             | 110 | 39 | ○             |
| 800006036               | 185E-40-EO  | 66             | 84             | 110 | 40 | ○             |
| 800006165               | 185E-41-EO  | 66             | 84             | 110 | 41 | ○             |
| 800006050               | 185E-42-EO  | 66             | 84             | 110 | 42 | ○             |
| 800006166               | 185E-43-EO  | 66             | 84             | 110 | 43 | ○             |
| 800006167               | 185E-44-EO  | 66             | 84             | 110 | 44 | ○             |
| 800006168               | 185E-45-EO  | 66             | 84             | 110 | 45 | ○             |
| 800006169               | 185E-46-EO  | 66             | 84             | 110 | 46 | ○             |
| 800006170               | 185E-47-EO  | 66             | 84             | 110 | 47 | ○             |
| 800006171               | 185E-48-EO  | 66             | 84             | 110 | 48 | ○             |
| 800006172               | 185E-49-EO  | 66             | 84             | 110 | 49 | ○             |
| 800006173               | 185E-50-EO  | 66             | 84             | 110 | 50 | ○             |
| 800006174               | 185E-51-EO  | 66             | 84             | 110 | 51 | ○             |
| 800006175               | 185E-52-EO  | 66             | 84             | 110 | 52 | ○             |
| 800006176               | 185E-53-EO  | 66             | 84             | 110 | 53 | ○             |
| 800006177               | 185E-54-EO  | 66             | 84             | 110 | 54 | ○             |
| 800006178               | 185E-55-EO  | 66             | 84             | 110 | 55 | ○             |
| 800006179               | 185E-56-EO  | 66             | 84             | 110 | 56 | ○             |
| 800006180               | 185E-57-EO  | 66             | 84             | 110 | 57 | ○             |
| 800006181               | 185E-58-EO  | 66             | 84             | 110 | 58 | ○             |
| 800006182               | 185E-59-EO  | 66             | 84             | 110 | 59 | ○             |
| 800006183               | 185E-60-EO  | 66             | 84             | 110 | 60 | ○             |
| 800006208               | 185E-4-K    | 66             | 84             | 110 | 4  | □             |
| 800006209               | 185E-5-K    | 66             | 84             | 110 | 5  | □             |
| 800006210               | 185E-6-K    | 66             | 84             | 110 | 6  | □             |

| Artikel Nr.<br>Code No. | Typ<br>Type | D <sub>1</sub> | D <sub>2</sub> | L   | d  | Form<br>Shape |
|-------------------------|-------------|----------------|----------------|-----|----|---------------|
| 800006211               | 185E-7-K    | 66             | 84             | 110 | 7  | □             |
| 800006212               | 185E-8-K    | 66             | 84             | 110 | 8  | □             |
| 800006213               | 185E-9-K    | 66             | 84             | 110 | 9  | □             |
| 800006214               | 185E-10-K   | 66             | 84             | 110 | 10 | □             |
| 800006215               | 185E-11-K   | 66             | 84             | 110 | 11 | □             |
| 800006216               | 185E-12-K   | 66             | 84             | 110 | 12 | □             |
| 800006217               | 185E-13-K   | 66             | 84             | 110 | 13 | □             |
| 800006218               | 185E-14-K   | 66             | 84             | 110 | 14 | □             |
| 800006219               | 185E-16-K   | 66             | 84             | 110 | 16 | □             |
| 800006220               | 185E-18-K   | 66             | 84             | 110 | 18 | □             |
| 800006221               | 185E-20-K   | 66             | 84             | 110 | 20 | □             |
| 800006222               | 185E-22-K   | 66             | 84             | 110 | 22 | □             |
| 800006223               | 185E-24-K   | 66             | 84             | 110 | 24 | □             |
| 800006224               | 185E-25-K   | 66             | 84             | 110 | 25 | □             |
| 800006225               | 185E-28-K   | 66             | 84             | 110 | 28 | □             |
| 800006226               | 185E-30-K   | 66             | 84             | 110 | 30 | □             |
| 800006227               | 185E-32-K   | 66             | 84             | 110 | 32 | □             |
| 800006228               | 185E-36-K   | 66             | 84             | 110 | 36 | □             |
| 800006229               | 185E-40-K   | 66             | 84             | 110 | 40 | □             |
| 800006184               | 185E-4-S    | 66             | 84             | 110 | 4  | ⬡             |
| 800006185               | 185E-5-S    | 66             | 84             | 110 | 5  | ⬡             |
| 800006186               | 185E-6-S    | 66             | 84             | 110 | 6  | ⬡             |
| 800006187               | 185E-7-S    | 66             | 84             | 110 | 7  | ⬡             |
| 800006188               | 185E-8-S    | 66             | 84             | 110 | 8  | ⬡             |
| 800006189               | 185E-9-S    | 66             | 84             | 110 | 9  | ⬡             |
| 800006190               | 185E-10-S   | 66             | 84             | 110 | 10 | ⬡             |
| 800006191               | 185E-11-S   | 66             | 84             | 110 | 11 | ⬡             |
| 800006192               | 185E-12-S   | 66             | 84             | 110 | 12 | ⬡             |
| 800006193               | 185E-13-S   | 66             | 84             | 110 | 13 | ⬡             |
| 800006194               | 185E-14-S   | 66             | 84             | 110 | 14 | ⬡             |
| 800006195               | 185E-15-S   | 66             | 84             | 110 | 15 | ⬡             |
| 800006196               | 185E-16-S   | 66             | 84             | 110 | 16 | ⬡             |
| 800006197               | 185E-17-S   | 66             | 84             | 110 | 17 | ⬡             |
| 800006198               | 185E-19-S   | 66             | 84             | 110 | 19 | ⬡             |
| 800006199               | 185E-22-S   | 66             | 84             | 110 | 22 | ⬡             |
| 800006200               | 185E-24-S   | 66             | 84             | 110 | 24 | ⬡             |
| 800006012               | 185E-27-S   | 66             | 84             | 110 | 27 | ⬡             |
| 800006201               | 185E-30-S   | 66             | 84             | 110 | 30 | ⬡             |
| 800006202               | 185E-32-S   | 66             | 84             | 110 | 32 | ⬡             |
| 800006203               | 185E-36-S   | 66             | 84             | 110 | 36 | ⬡             |
| 800006204               | 185E-38-S   | 66             | 84             | 110 | 38 | ⬡             |
| 800006205               | 185E-41-S   | 66             | 84             | 110 | 41 | ⬡             |
| 800006206               | 185E-46-S   | 66             | 84             | 110 | 46 | ⬡             |
| 800006207               | 185E-50-S   | 66             | 84             | 110 | 50 | ⬡             |

EG - Runde Ausführung und glatt • Round and clean

EO - Runde Ausführung und geriffelte Oberfläche • Round with grooved surface

S - Sechskant • Hexagon

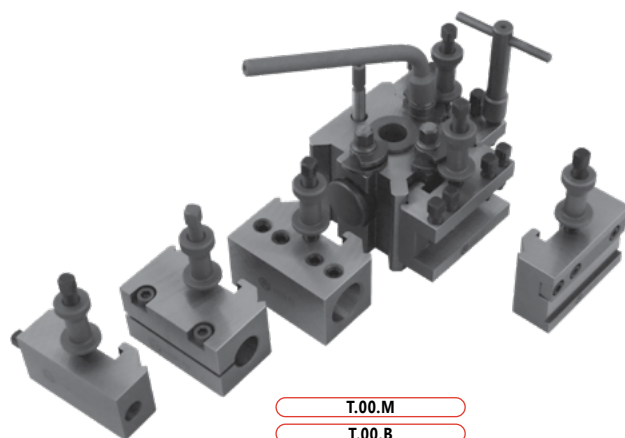
K - Vierkant • Square





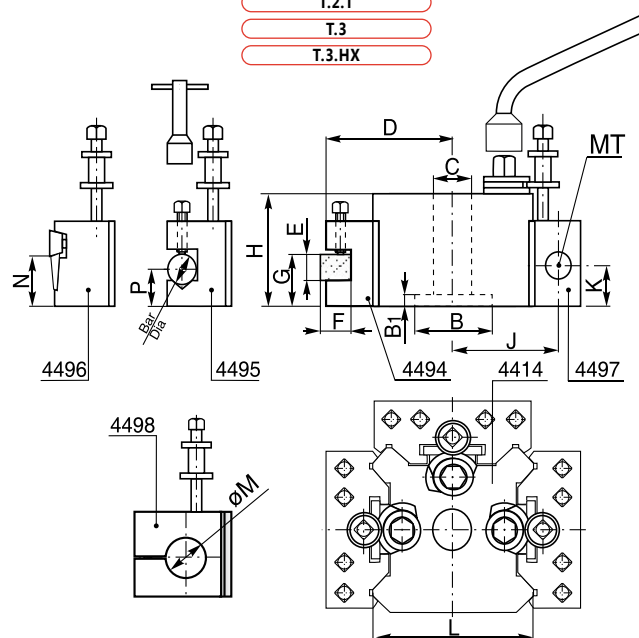
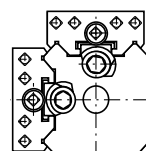
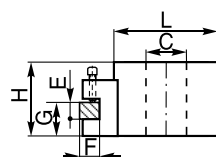
# 4414

- Schnellwechsel-Stahlhalter
- Quick change toolposts



T.00.M  
T.00.B  
T.0

T.1  
T.1.X  
T.2  
T.2.T  
T.3  
T.3.HX

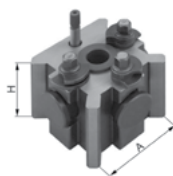


| Größe<br>Size | H     | B     | B <sub>i</sub> | C    | D     | E  | F    | G max.<br>G max. | G min.<br>G min. | Bar Dia | P max.<br>P max. | P min.<br>P min. | MK<br>MT | J    | K max.<br>K max. | K min.<br>K min. | L     | N    | M    |
|---------------|-------|-------|----------------|------|-------|----|------|------------------|------------------|---------|------------------|------------------|----------|------|------------------|------------------|-------|------|------|
| T.00.M        | 37,0  | —     | —              | 11,2 | 50,0  | 12 | 11,0 | 27,0             | 17,0             | 11,0    | 22,5             | 12,5             | —        | —    | —                | —                | 58,0  | 16,0 | —    |
| T.00.B        | 42,0  | —     | —              | 16,0 | 50,0  | 12 | 11,0 | 32,0             | 17,0             | 11,0    | 27,5             | 12,5             | —        | —    | —                | —                | 58,0  | 16,0 | —    |
| T.0           | 51,0  | 22,22 | 12,5           | 19,0 | 62,0  | 16 | 13,0 | 36,5             | 20,5             | 16,0    | 32,0             | 16,0             | 1        | 52,5 | 28,5             | 16,0             | 73,0  | 27,0 | 19,0 |
| T.1           | 63,5  | 31,75 | 8,5            | 19,0 | 62,0  | 20 | 13,0 | 46,0             | 30,0             | 16,0    | 44,5             | 25,5             | 1        | 52,5 | 41,0             | 22,0             | 73,0  | 27,0 | 19,0 |
| T.1.X         | 73,0  | 31,75 | 8,5            | 19,0 | 62,0  | 20 | 13,0 | 57,0             | 35,0             | 16,0    | 54,0             | 32,0             | 1&2      | 52,5 | 51,0             | 28,5             | 73,0  | 27,0 | 19,0 |
| T.2           | 71,5  | 44,45 | 9,5            | 25,5 | 74,5  | 20 | 19,0 | 52,5             | 36,5             | 19,0    | 46,0             | 24,0             | 2        | 65,0 | 47,5             | 27,0             | 97,0  | 33,5 | 25,4 |
| T.2.T         | 76,0  | 44,45 | 9,5            | 25,5 | 84,0  | 25 | 25,5 | 58,5             | 39,5             | 19,0    | 50,0             | 24,0             | 2        | 70,0 | 51,0             | 27,0             | 106,0 | 33,5 | 25,4 |
| T.3           | 95,5  | 50,80 | 11,5           | 25,5 | 101,5 | 32 | 25,5 | 74,5             | 51,0             | 25,5    | 51,0             | 28,5             | 3        | 85,5 | 58,2             | 36,5             | 125,5 | 39,5 | 38,0 |
| T.3.HX        | 108,0 | 50,80 | 11,5           | 25,5 | 101,5 | 32 | 25,5 | 84,0             | 62,0             | 25,5    | 65,0             | 41,0             | 3        | 85,5 | 58,2             | 36,5             | 125,5 | 39,5 | 38,0 |



## 4414

- Schnellwechsel-Stahlhalter
- Quick change toolposts



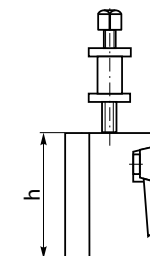
| Artikel Nr.<br>Code No. | Typ<br>Type | A x H     | Spannbereich<br>Clamping range |
|-------------------------|-------------|-----------|--------------------------------|
| 800000651               | T.00.M      | 48 x 37   | bis zu/ up to 89 mm            |
| 800000652               | T.00.B      | 48 x 42   | bis zu/ up to 89 mm            |
| 800000653               | T.0         | 62 x 51   | bis zu/ up to 114 mm           |
| 800000654               | T.1         | 62 x 63   | 114 mm bis/ up to 127 mm       |
| 800000655               | T.1.X       | 62 x 73   | 114 mm bis/ up to 127 mm       |
| 800000656               | T.2         | 82 x 71   | 127 mm bis/ up to 203 mm       |
| 800000657               | T.2.T       | 82 x 76   | 127 mm bis/ up to 203 mm       |
| 800000658               | T.3         | 100 x 92  | 203 mm bis/ up to 292 mm       |
| 800000659               | T.3.HX      | 100 x 108 | 203 mm bis/ up to 292 mm       |

## 4496

- Standard Schnellwechseleinsatz
- Part off toolholders



| Artikel Nr.<br>Code No. | Grösse<br>Size | Für Typ<br>For Type | b x h     |
|-------------------------|----------------|---------------------|-----------|
| 800000674               | 48             | T.00M, T.00B        | 58 x 32   |
| 800000676               | 62             | T.0, T.1, T.1X      | 73 x 47,5 |
| 800000677               | 82             | T.2, T.2T           | 98,5 x 57 |
| 800000678               | 100            | T.3, T.3HX          | 124 x 70  |

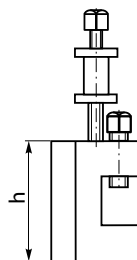


## 4494

- Standard Schnellwechseleinsatz
- Standard toolholders



| Artikel Nr.<br>Code No. | Grösse<br>Size | Für Typ<br>For Type | b x h     |
|-------------------------|----------------|---------------------|-----------|
| 800000660               | 48             | T.00M, T.00B        | 58 x 27   |
| 800000663               | 62N            | T.0                 | 73 x 35   |
| 800000662               | 62             | T.1, T.1X           | 73 x 44   |
| 800000665               | 82N            | T.2                 | 98,5 x 50 |
| 800000664               | 82             | T.2T                | 98,5 x 57 |
| 800000666               | 100            | T.3, T.3HX          | 124 x 70  |

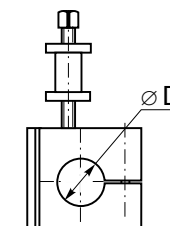


## 4498

- Schnellwechseleinsatz für Bohrstangenhalter
- Toolholders for boring bars



| Artikel Nr.<br>Code No. | Grösse<br>Size | Für Typ<br>For Type | ØD   |
|-------------------------|----------------|---------------------|------|
| 800000684               | 62             | T.0, T.1, T.1X      | 19   |
| 800000685               | 82             | T.2, T.2T           | 25,4 |
| 800000687               | 100            | T.3, T.3HX          | 38   |

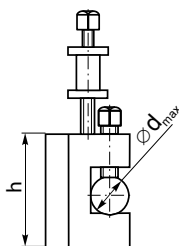


## 4495

- Schnellwechseleinsatz mit Prisma für runde Werkzeuge
- Vee type toolholders



| Artikel Nr.<br>Code No. | Grösse<br>Size | Für Typ<br>For Type | Ød <sub>max</sub> | b x h     |
|-------------------------|----------------|---------------------|-------------------|-----------|
| 800000667               | 48             | T.00M, T.00B        | 11,0              | 58 x 27   |
| 800000670               | 62N            | T.0                 | 16,0              | 73 x 35   |
| 800000669               | 62             | T.1, T.1X           | 16,0              | 73 x 44   |
| 800000672               | 82N            | T.2                 | 19,0              | 98,5 x 50 |
| 800000671               | 82             | T.2T                | 19,0              | 98,5 x 57 |
| 800000673               | 100            | T.3, 3HX            | 25,5              | 124 x 70  |

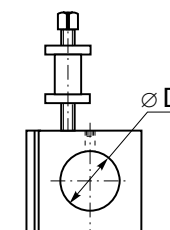


## 4499

- Schnellwechseleinsatz für Bohrstangenhalter
- Toolholders for boring bars



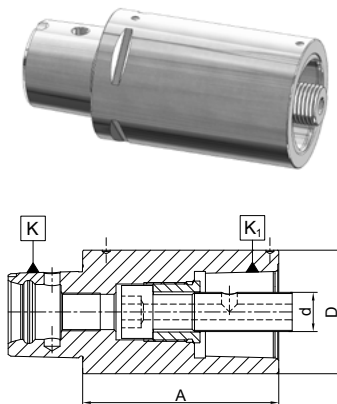
| Artikel Nr.<br>Code No. | Grösse<br>Size | Für Typ<br>For Type | ØD |
|-------------------------|----------------|---------------------|----|
| 800000688               | 62             | T.0, T.1, T.1X      | 25 |
| 800000689               | 82             | T.2, T.2T           | 32 |
| 800000690               | 100            | T.3, T.3HX          | 40 |



| Artikel Nr.<br>Code No. | K<br>PSC | K1<br>PSC | A   | D   | d       |
|-------------------------|----------|-----------|-----|-----|---------|
| 800010421               | 32       | 32        | 60  | 32  | M12x1,5 |
| 800010422               | 40       | 32        | 55  | 32  | M12x1,5 |
| 800010423               | 40       | 40        | 60  | 40  | M14x1,5 |
| 800010424               | 50       | 32        | 60  | 32  | M12x1,5 |
| 800010425               | 50       | 40        | 65  | 40  | M14x1,5 |
| 800010426               | 50       | 50        | 80  | 50  | M16x1,5 |
| 800010427               | 63       | 32        | 70  | 32  | M12x1,5 |
| 800010428               | 63       | 40        | 80  | 40  | M14x1,5 |
| 800010429               | 63       | 50        | 80  | 50  | M16x1,5 |
| 800010430               | 63       | 63        | 100 | 63  | M20x2   |
| 800010431               | 80       | 32        | 60  | 32  | M12x1,5 |
| 800010432               | 80       | 40        | 70  | 40  | M14x1,5 |
| 800010433               | 80       | 50        | 80  | 50  | M16x1,5 |
| 800010434               | 80       | 63        | 80  | 63  | M20x2   |
| 800010435               | 80       | 80        | 100 | 80  | M20x2   |
| 800010436               | 100      | 32        | 85  | 32  | M12x1,5 |
| 800010437               | 100      | 40        | 90  | 40  | M14x1,5 |
| 800010438               | 100      | 50        | 95  | 50  | M16x1,5 |
| 800010439               | 100      | 63        | 95  | 63  | M20x2   |
| 800010440               | 100      | 80        | 100 | 80  | M20x2   |
| 800010441               | 100      | 100       | 140 | 100 | M20x2   |

## 1696

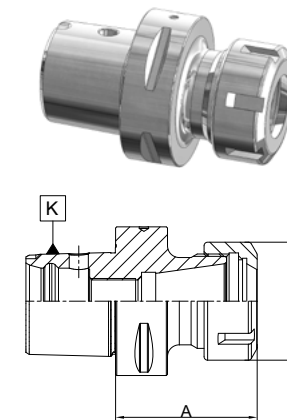
- REDUZIERHÜSLEN für Werkzeuge mit PSC-Kegelschaft
- REDUCING SLEEVES for tools with PSC taper shank
- ISO 26623-1



| Artikel Nr.<br>Code No. | K<br>PSC | Spannzange<br>Collet | A   | Spannbereich<br>Capacity | D  |
|-------------------------|----------|----------------------|-----|--------------------------|----|
| 800010442               | 32       | ER16                 | 45  | 2-10                     | 32 |
| 800010443               | 32       | ER20                 | 45  | 2-13                     | 35 |
| 800010444               | 40       | ER16                 | 70  | 2-10                     | 32 |
| 800010445               | 40       | ER20                 | 52  | 2-13                     | 35 |
| 800010446               | 40       | ER25                 | 52  | 2-16                     | 45 |
| 800010447               | 40       | ER32                 | 54  | 2-20                     | 50 |
| 800010448               | 50       | ER16                 | 100 | 2-10                     | 32 |
| 800010449               | 50       | ER20                 | 55  | 2-13                     | 35 |
| 800010450               | 50       | ER25                 | 55  | 2-16                     | 45 |
| 800010451               | 50       | ER32                 | 57  | 2-20                     | 50 |
| 800010452               | 50       | ER40                 | 60  | 2-26                     | 63 |
| 800010453               | 63       | ER16                 | 100 | 2-10                     | 32 |
| 800010454               | 63       | ER20                 | 60  | 2-13                     | 35 |
| 800010455               | 63       | ER25                 | 60  | 2-16                     | 45 |
| 800010456               | 63       | ER32                 | 60  | 2-20                     | 50 |
| 800010457               | 63       | ER40                 | 65  | 2-26                     | 63 |
| 800010458               | 80       | ER20                 | 65  | 2-13                     | 35 |
| 800010459               | 80       | ER25                 | 70  | 2-10                     | 45 |
| 800010460               | 80       | ER32                 | 70  | 2-20                     | 50 |
| 800010461               | 80       | ER40                 | 70  | 2-26                     | 63 |
| 800010462               | 100      | ER32                 | 160 | 2-20                     | 50 |
| 800010463               | 100      | ER40                 | 160 | 2-26                     | 63 |

## 7608

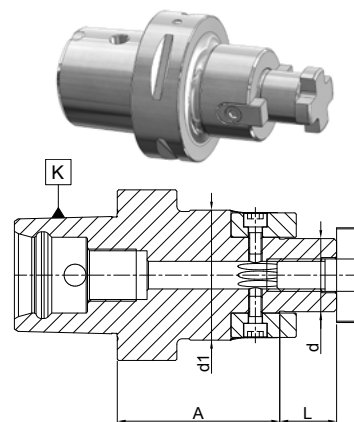
- SPANNZANGENFUTTER für Werkzeuge mit Zylinderschaft
- COLLET CHUCK ER for tools with cylindrical shank
- ISO 26623-1



| Artikel Nr.<br>Code No. | K<br>PSC | d  | A  | L  | d1  |
|-------------------------|----------|----|----|----|-----|
| 800010464               | 32       | 16 | 45 | 17 | 32  |
| 800010465               | 40       | 16 | 50 | 17 | 32  |
| 800010466               | 40       | 22 | 50 | 19 | 40  |
| 800010467               | 50       | 16 | 50 | 17 | 32  |
| 800010468               | 50       | 22 | 50 | 19 | 40  |
| 800010469               | 50       | 27 | 60 | 21 | 48  |
| 800010470               | 50       | 32 | 60 | 24 | 58  |
| 800010471               | 63       | 16 | 50 | 17 | 32  |
| 800010472               | 63       | 22 | 50 | 19 | 40  |
| 800010473               | 63       | 27 | 60 | 21 | 48  |
| 800010474               | 63       | 32 | 60 | 24 | 58  |
| 800010475               | 63       | 40 | 60 | 27 | 70  |
| 800010476               | 80       | 16 | 60 | 17 | 32  |
| 800010477               | 80       | 22 | 60 | 19 | 40  |
| 800010478               | 80       | 27 | 70 | 21 | 48  |
| 800010479               | 80       | 32 | 70 | 24 | 58  |
| 800010480               | 80       | 40 | 70 | 27 | 70  |
| 800010481               | 80       | 60 | 70 | 40 | 129 |
| 800010482               | 100      | 40 | 70 | 27 | 70  |
| 800010483               | 100      | 60 | 70 | 40 | 129 |

## 7390

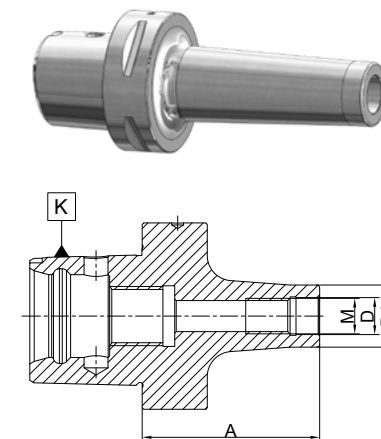
- KOMBI-FRÄSER-AUFSTECKDORN für Fräser mit Mitnehmernut DIN 138
- SHELL MILL ADAPTER for cutters with driving slot DIN 138
- ISO 26623-1



| Artikel Nr.<br>Code No. | K<br>PSC | Spannzange<br>Collet | A   | Spannbereich<br>Capacity | D  |
|-------------------------|----------|----------------------|-----|--------------------------|----|
| 800010442               | 32       | ER16                 | 45  | 2-10                     | 32 |
| 800010443               | 32       | ER20                 | 45  | 2-13                     | 35 |
| 800010444               | 40       | ER16                 | 70  | 2-10                     | 32 |
| 800010445               | 40       | ER20                 | 52  | 2-13                     | 35 |
| 800010446               | 40       | ER25                 | 52  | 2-16                     | 45 |
| 800010447               | 40       | ER32                 | 54  | 2-20                     | 50 |
| 800010448               | 50       | ER16                 | 100 | 2-10                     | 32 |
| 800010449               | 50       | ER20                 | 55  | 2-13                     | 35 |
| 800010450               | 50       | ER25                 | 55  | 2-16                     | 45 |
| 800010451               | 50       | ER32                 | 57  | 2-20                     | 50 |
| 800010452               | 50       | ER40                 | 60  | 2-26                     | 63 |
| 800010453               | 63       | ER16                 | 100 | 2-10                     | 32 |
| 800010454               | 63       | ER20                 | 60  | 2-13                     | 35 |
| 800010455               | 63       | ER25                 | 60  | 2-16                     | 45 |
| 800010456               | 63       | ER32                 | 60  | 2-20                     | 50 |
| 800010457               | 63       | ER40                 | 65  | 2-26                     | 63 |
| 800010458               | 80       | ER20                 | 65  | 2-13                     | 35 |
| 800010459               | 80       | ER25                 | 70  | 2-10                     | 45 |
| 800010460               | 80       | ER32                 | 70  | 2-20                     | 50 |
| 800010461               | 80       | ER40                 | 70  | 2-26                     | 63 |
| 800010462               | 100      | ER32                 | 160 | 2-20                     | 50 |
| 800010463               | 100      | ER40                 | 160 | 2-26                     | 63 |

## 7667

- HALTER für Einschraubfräser
- ADAPTERS for screw in type mills
- ISO 26623-1



## 7623

- KOMBI-FRÄSER-AUFSTECKDORN für Fräser mit Zylinderschaft und Weldonfläche DIN 1835-B
- END MILL ADAPTER for cutters with cylindrical shank and Weldon flat DIN 1835-B
- ISO 26623-1

| Artikel Nr.<br>Code No. | K<br>PSC | d  | A   | D  | Abb.<br>Fig. |
|-------------------------|----------|----|-----|----|--------------|
| 800010484               | 32       | 6  | 50  | 25 | 1            |
| 800010485               | 32       | 8  | 50  | 28 | 1            |
| 800010486               | 32       | 10 | 55  | 35 | 1            |
| 800010487               | 32       | 12 | 55  | 42 | 1            |
| 800010488               | 32       | 14 | 55  | 44 | 1            |
| 800010489               | 32       | 16 | 60  | 48 | 1            |
| 800010490               | 32       | 18 | 60  | 50 | 1            |
| 800010491               | 32       | 20 | 60  | 52 | 1            |
| 800010492               | 32       | 25 | 80  | 63 | 2            |
| 800010493               | 32       | 32 | 90  | 72 | 2            |
| 800010494               | 32       | 40 | 100 | 80 | 2            |
| 800010495               | 40       | 6  | 55  | 25 | 1            |
| 800010496               | 40       | 8  | 55  | 28 | 1            |
| 800010497               | 40       | 10 | 60  | 35 | 1            |
| 800010498               | 40       | 12 | 60  | 42 | 1            |
| 800010499               | 40       | 14 | 60  | 44 | 1            |
| 800010500               | 40       | 16 | 65  | 48 | 1            |
| 800010501               | 40       | 18 | 65  | 50 | 1            |
| 800010502               | 40       | 20 | 65  | 52 | 1            |
| 800010503               | 40       | 25 | 80  | 63 | 2            |
| 800010504               | 40       | 32 | 90  | 72 | 2            |
| 800010505               | 40       | 40 | 100 | 80 | 2            |
| 800010506               | 50       | 6  | 55  | 25 | 1            |
| 800010507               | 50       | 8  | 55  | 28 | 1            |
| 800010508               | 50       | 10 | 60  | 35 | 1            |
| 800010509               | 50       | 12 | 60  | 42 | 1            |
| 800010510               | 50       | 14 | 60  | 44 | 1            |
| 800010511               | 50       | 16 | 65  | 48 | 1            |
| 800010512               | 50       | 18 | 65  | 50 | 1            |
| 800010513               | 50       | 20 | 65  | 52 | 1            |
| 800010514               | 50       | 25 | 80  | 63 | 2            |
| 800010515               | 50       | 32 | 90  | 72 | 2            |
| 800010516               | 50       | 40 | 100 | 80 | 2            |
| 800010517               | 63       | 6  | 55  | 25 | 1            |
| 800010518               | 63       | 8  | 55  | 28 | 1            |
| 800010519               | 63       | 10 | 60  | 35 | 1            |
| 800010520               | 63       | 12 | 60  | 42 | 1            |
| 800010521               | 63       | 14 | 60  | 44 | 1            |
| 800010522               | 63       | 16 | 65  | 48 | 1            |
| 800010523               | 63       | 18 | 65  | 50 | 1            |
| 800010524               | 63       | 20 | 65  | 52 | 1            |

| Artikel Nr.<br>Code No. | K<br>PSC | d  | A   | D  | Abb.<br>Fig. |
|-------------------------|----------|----|-----|----|--------------|
| 800010525               | 63       | 25 | 80  | 63 | 2            |
| 800010526               | 63       | 32 | 90  | 72 | 2            |
| 800010527               | 63       | 40 | 100 | 80 | 2            |
| 800010528               | 80       | 6  | 65  | 25 | 1            |
| 800010529               | 80       | 8  | 65  | 28 | 1            |
| 800010530               | 80       | 10 | 70  | 35 | 1            |
| 800010531               | 80       | 12 | 70  | 42 | 1            |
| 800010532               | 80       | 14 | 70  | 44 | 1            |
| 800010533               | 80       | 16 | 75  | 48 | 1            |
| 800010534               | 80       | 18 | 75  | 50 | 1            |
| 800010535               | 80       | 20 | 75  | 52 | 1            |
| 800010536               | 80       | 25 | 90  | 63 | 2            |
| 800010537               | 80       | 32 | 100 | 72 | 2            |
| 800010538               | 80       | 40 | 110 | 80 | 2            |
| 800010539               | 100      | 20 | 75  | 52 | 1            |
| 800010540               | 100      | 25 | 90  | 63 | 2            |
| 800010541               | 100      | 32 | 100 | 72 | 2            |
| 800010542               | 100      | 40 | 110 | 80 | 2            |

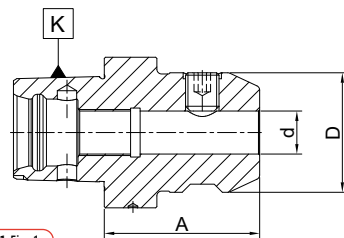


Abb. 1 Fig. 1

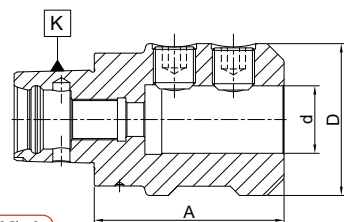
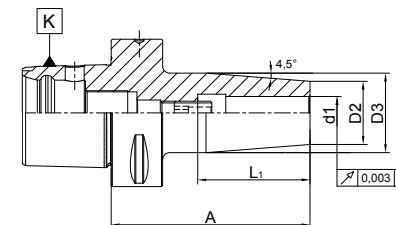
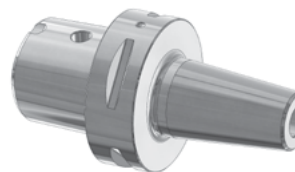


Abb. 2 Fig. 2

## 7635

- SCHRUMPFUTTER
- SHRINK FIT HOLDERS
- ISO 26623-1

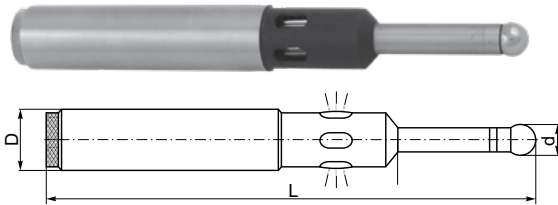


| Artikel Nr.<br>Code No. | K<br>PSC | d1 | A   | L1 | D2 | D3 |
|-------------------------|----------|----|-----|----|----|----|
| 800010543               | 40       | 6  | 75  | 36 | 21 | 27 |
| 800010544               | 40       | 8  | 75  | 36 | 21 | 27 |
| 800010545               | 40       | 10 | 75  | 43 | 24 | 32 |
| 800010546               | 40       | 12 | 75  | 48 | 24 | 32 |
| 800010547               | 40       | 14 | 80  | 48 | 27 | 34 |
| 800010548               | 40       | 16 | 80  | 51 | 27 | 34 |
| 800010549               | 50       | 6  | 75  | 36 | 21 | 27 |
| 800010550               | 50       | 8  | 75  | 36 | 21 | 27 |
| 800010551               | 50       | 10 | 75  | 43 | 24 | 32 |
| 800010552               | 50       | 12 | 75  | 48 | 24 | 32 |
| 800010553               | 50       | 14 | 80  | 48 | 27 | 34 |
| 800010554               | 50       | 16 | 80  | 51 | 27 | 34 |
| 800010555               | 50       | 18 | 80  | 51 | 33 | 42 |
| 800010556               | 50       | 20 | 85  | 53 | 33 | 42 |
| 800010557               | 63       | 6  | 80  | 36 | 21 | 27 |
| 800010558               | 63       | 8  | 80  | 36 | 21 | 27 |
| 800010559               | 63       | 10 | 80  | 43 | 24 | 32 |
| 800010560               | 63       | 12 | 80  | 48 | 24 | 32 |
| 800010561               | 63       | 14 | 85  | 48 | 27 | 34 |
| 800010562               | 63       | 16 | 85  | 51 | 27 | 34 |
| 800010563               | 63       | 18 | 85  | 51 | 33 | 42 |
| 800010564               | 63       | 20 | 85  | 53 | 33 | 42 |
| 800010565               | 63       | 25 | 90  | 57 | 44 | 53 |
| 800010566               | 63       | 32 | 95  | 59 | 44 | 53 |
| 800010567               | 80       | 10 | 90  | 43 | 24 | 32 |
| 800010568               | 80       | 12 | 90  | 48 | 24 | 32 |
| 800010569               | 80       | 16 | 95  | 51 | 27 | 34 |
| 800010570               | 80       | 20 | 95  | 53 | 33 | 42 |
| 800010571               | 80       | 25 | 100 | 57 | 44 | 53 |
| 800010572               | 100      | 12 | 95  | 48 | 24 | 32 |
| 800010573               | 100      | 16 | 100 | 51 | 27 | 34 |
| 800010574               | 100      | 20 | 100 | 53 | 33 | 42 |
| 800010575               | 100      | 25 | 110 | 57 | 44 | 53 |



**1911**

- **Optischer Kantentaster**
- Optical edge finder



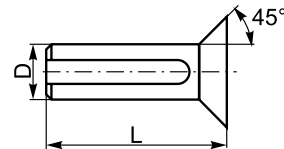
- Schnelles Ausrichten von Werkstücken, Bezugsflächen oder Kanten
- Zeitersparnis bei der Werkzeugpositionierung, für Fräs-, Bohr- und andere Werkzeugmaschinen geeignet
- Genauigkeit 0.005 mm
- Die Verbindung mit der CNC-Maschine ermöglicht nachfolgende Prozesse:
  - Innen- und Aussenmessung von Werkstückdimensionen
  - Zentrierung und Messung von Bohrungen
  - Messung von Höhe und Tiefe
- 2 Stück 1.5 V Batterien werden benötigt (nicht im Lieferumfang enthalten)

- Quickly locating edges of workpieces
- Saving time of tools positioning for milling machines, jog borers and other machine tools
- Accuracy 0.005 mm
- When the finder is used in connection with the control system of machine tool or CNC system it gives possibility of:
  - measuring of inside or outside dimension of workpiece
  - centring and measuring of bores diameters
  - measuring of height and depth
- Using 2 dry batteries 1.5 V (not included)

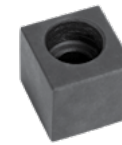
| Artikel Nr.<br>Code No. | Typ<br>Type | D  | d  | L   |
|-------------------------|-------------|----|----|-----|
| 800003192               | 1911-LS     | 20 | 10 | 157 |


**ABDECKKAPPE**  
 CAP FOR MILLING ARBORS

| Artikel Nr.<br>Code No. | Typ<br>Type | L  | D  |
|-------------------------|-------------|----|----|
| 800003121               | U-6510/0    | 52 | 16 |
| 800003122               | U-6511/0    | 82 | 16 |
| 800003123               | U-6512/0    | 52 | 22 |
| 800003124               | U-6513/0    | 82 | 22 |
| 800003125               | U-6514/0    | 52 | 27 |
| 800003126               | U-6515/0    | 82 | 27 |
| 800003127               | U-6516/0    | 52 | 32 |
| 800003128               | U-6517/0    | 82 | 32 |
| 800003129               | U-6518/0    | 52 | 40 |
| 800003130               | U-6519/0    | 82 | 40 |


**ABDECKKAPPE**  
 ANGLE CAP 45°

| Artikel Nr.<br>Code No. | Typ<br>Type | L  | D  |
|-------------------------|-------------|----|----|
| 800005699               | U-6510/1    | 52 | 16 |
| 800005700               | U-6511/1    | 82 | 16 |
| 800005701               | U-6512/1    | 52 | 22 |
| 800005702               | U-6513/1    | 82 | 22 |
| 800005703               | U-6514/1    | 52 | 27 |
| 800005704               | U-6515/1    | 82 | 27 |
| 800005705               | U-6516/1    | 52 | 32 |
| 800005706               | U-6517/1    | 82 | 32 |
| 800005707               | U-6518/1    | 52 | 40 |
| 800005708               | U-6519/1    | 82 | 40 |


**VIERKANTANTRIEB**  
 SQUARE DRIVE

| Artikel Nr.<br>Code No. | Typ<br>Type | B    | L    | H  |
|-------------------------|-------------|------|------|----|
| 800003119               | U-6227/0    | 15,9 | 16,5 | 16 |


**FÜHRUNGSPLATTE**  
 DRIVE TANG

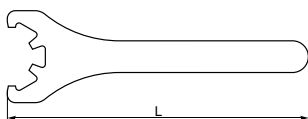
| Artikel Nr.<br>Code No. | Typ<br>Type | B    | H  | L    |
|-------------------------|-------------|------|----|------|
| 800003057               | S-2111/0    | 12   | 9  | 24   |
| 800003058               | S-2114/0    | 14   | 12 | 28   |
| 800003059               | S-2117/0    | 8    | 7  | 17   |
| 800003060               | S-2121/0    | 10   | 8  | 20,6 |
| 800003061               | S-2124/0    | 16   | 12 | 32   |
| 800003110               | U-5974/0    | 18   | 16 | 33   |
| 800003114               | U-6064/0    | 15,9 | 16 | 20   |
| 800003115               | U-6065/0    | 25,4 | 25 | 34,5 |
| 800003116               | U-6066/0    | 25,4 | 25 | 29,5 |
| 800005683               | W-1945/0    | 8    | 8  | 16,8 |
| 800005684               | W-1946/0    | 10   | 10 | 20,4 |
| 800005685               | W-1947/0    | 12   | 12 | 24,1 |
| 800005686               | W-1948/0    | 14   | 14 | 27,8 |
| 800005687               | W-1949/0    | 16   | 16 | 31,8 |
| 800006778               | W-3649/0    | 14   | 12 | 22,8 |
| 800006779               | W-3651/0    | 16   | 12 | 23,8 |





## KL 9833

- Schlüssel für 9833
- Wrench for standard type nuts 9833



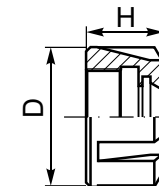
| Artikel Nr. | Typ         | Für Typ  | L   |
|-------------|-------------|----------|-----|
| Code No.    | Type        | For Type |     |
| 800003764   | KL9833-ER16 | ER16     | 150 |
| 800003328   | KL9833-ER20 | ER20     | 170 |
| 800003329   | KL9833-ER25 | ER25     | 190 |
| 800003341   | KL9833-ER32 | ER32     | 240 |
| 800003765   | KL9833-ER40 | ER40     | 270 |
| 800003766   | KL9833-ER50 | ER50     | 340 |

## 9833

- Nutmutter für ER Spannange Typ (DIN 6499)
- Standard type ER (DIN 6499) collet nuts



| Artikel Nr. | Typ     | Für Typ  | D  | H    |
|-------------|---------|----------|----|------|
| Code No.    | Type    | For Type |    |      |
| 800002977   | 9833-16 | ER16     | 32 | 17,5 |
| 800002978   | 9833-20 | ER20     | 35 | 19,0 |
| 800002979   | 9833-25 | ER25     | 42 | 20,0 |
| 800002980   | 9833-32 | ER32     | 50 | 22,5 |
| 800002981   | 9833-40 | ER40     | 63 | 25,5 |

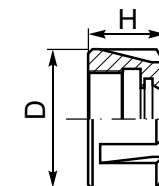


## 9833-ES

- Gewuchtete ER-Spannzangenmutter (DIN 6499)
- Balanced ER (DIN 6499) collet nuts

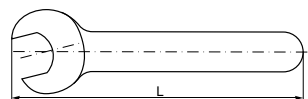


| Artikel Nr. | Typ        | Für Typ  | D  | H    |
|-------------|------------|----------|----|------|
| Code No.    | Type       | For Type |    |      |
| 800005308   | 9833-16 ES | ER16     | 32 | 17,5 |
| 800005309   | 9833-20 ES | ER20     | 35 | 19,0 |
| 800005310   | 9833-25 ES | ER25     | 42 | 20,0 |
| 800005311   | 9833-32 ES | ER32     | 50 | 22,5 |
| 800005312   | 9833-40 ES | ER40     | 63 | 25,5 |



## KL 9833-D

- Schlüssel für 9833-D
- Wrench for hexagon type nuts 9833-D



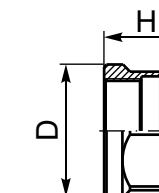
| Artikel Nr. | Typ        | Für Typ  | L   |
|-------------|------------|----------|-----|
| Code No.    | Type       | For Type |     |
| 800003767   | KL9833-11D | ER11     | 125 |
| 800003183   | KL9833-16D | ER16     | 170 |
| 800003768   | KL9833-20D | ER20     | 140 |

## 9833-D

- Sechskantmutter für ER-Spannzange Typ (DIN 6499)
- Hexagon ER collet nuts (DIN 6499)

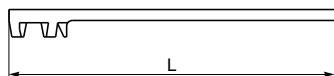


| Artikel Nr. | Typ       | Für Typ  | D  | H    |
|-------------|-----------|----------|----|------|
| Code No.    | Type      | For Type |    |      |
| 800003760   | 9833-11 D | ER11     | 19 | 11,0 |
| 800002982   | 9833-16 D | ER16     | 28 | 17,5 |
| 800003510   | 9833-20 D | ER20     | 34 | 20,0 |



## KL 9833-S

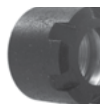
- Schlüssel für Mini 9833-S
- Wrench for mini type nuts 9833-S



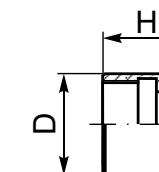
| Artikel Nr. | Typ         | Für Typ  | L   |
|-------------|-------------|----------|-----|
| Code No.    | Type        | For Type |     |
| 800003769   | KL 9833-11S | ER11     | 95  |
| 800003184   | KL 9833-16S | ER16     | 119 |
| 800003770   | KL 9833-20S | ER20     | 131 |
| 800003771   | KL 9833-25S | ER25     | 143 |

## 9833-S

- Mini Nuts Für ER Spannange Typ (DIN 6499)
- Mini type ER collet nuts (DIN 6499)



| Artikel Nr. | Typ       | Für Typ  | D  | H  |
|-------------|-----------|----------|----|----|
| Code No.    | Type      | For Type |    |    |
| 800003757   | 9833-11 S | ER11     | 16 | 12 |
| 800002983   | 9833-16 S | ER16     | 22 | 18 |
| 800003758   | 9833-20 S | ER20     | 28 | 19 |
| 800003759   | 9833-25 S | ER25     | 35 | 20 |




**VERSTELLSCHRAUBE  
FÜR SCHNELLWECHSELHALTER  
STOP FOR QUICKCHANGE TOOLHOLDERS**

| Artikel Nr. | Typ      | Für Typ        |
|-------------|----------|----------------|
| Code No.    | Type     | For Type       |
| 800003737   | U-5514/1 | T.00M          |
| 800003738   | U-5514/0 | T.00B          |
| 800003151   | U-6876/0 | T.0, T.1, T.1X |
| 800003106   | U-5762/0 | T.2, T.2T      |
| 800003154   | U-6880/0 | T.3, T.3HX     |


**SPANNHÜLSE  
CLAMP PAD**

| Artikel Nr. | Typ      | Für Typ        |
|-------------|----------|----------------|
| Code No.    | Type     | For Type       |
| 800003746   | U-5505/1 | T.00M          |
| 800003747   | U-5505/0 | T.00B          |
| 800003147   | U-6859/0 | T.0, T.1, T.1X |
| 800003748   | U-6174/0 | T.2            |
| 800003104   | U-5756/0 | T.2T           |
| 800003749   | U-6867/0 | T.3, T.3HX     |


**SCHRAUBE  
TOOLPOSTS SCREW**

| Artikel Nr. | Typ      | Für Typ        | Form  | Durchmesser | Gewinde |
|-------------|----------|----------------|-------|-------------|---------|
| Code No.    | Type     | For Type       | Shape | Diameter    | Thread  |
| 800005897   | U-5516/1 | T.00M          | ⬡     | 4mm         | M5x20   |
| 800005896   | U-5516/0 | T.00B          | ⬡     | 4mm         | M5x20   |
| 800003152   | U-6877/0 | T.0, T.1, T.1X | ⬡     | 8mm         | M8x25   |
| 800003159   | U-7386/0 | T.2, T.2T      | ⬡     | 10mm        | M10x30  |
| 800003155   | U-6881/0 | T.3, T.3HX     | ⬡     | 13mm        | M12x40  |


**SPANNBOLZEN  
CLAMP BOLT**

| Artikel Nr. | Typ      | Für Typ        |
|-------------|----------|----------------|
| Code No.    | Type     | For Type       |
| 800003739   | U-5507/1 | T.00M          |
| 800003101   | U-5507/0 | T.00B          |
| 800003148   | U-6860/0 | T.0, T.1, T.1X |
| 800003117   | U-6175/0 | T.2            |
| 800003105   | U-5757/0 | T.2T           |
| 800003740   | U-6868/0 | T.3, T.3HX     |


**T-SCHLÜSSEL  
T WRENCH**

- T-Schlüssel
- T-wrench with square socket

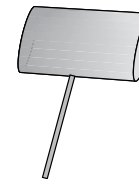
| Artikel Nr. | Typ             | Für Typ     |        |
|-------------|-----------------|-------------|--------|
| Code No.    | Type            | For Type    |        |
| 800003029   | KL 4414-62X51   | T0, T1, T1X | 8mm    |
| 800003030   | KL 4414-82X71   | T2, T2T     | 10mm   |
| 800003028   | KL 4414-100X108 | T3, T3HX    | 13,5mm |


**SCHRAUBE  
TOOLPOSTS SCREW**

| Artikel Nr. | Typ      | Für Typ        | Form  | Durchmesser | Gewinde |
|-------------|----------|----------------|-------|-------------|---------|
| Code No.    | Type     | For Type       | Shape | Diameter    | Thread  |
| 800005899   | U-5517/1 | T.00M          | ⬡     | 4mm         | M5x16   |
| 800005898   | U-5517/0 | T.00B          | ⬡     | 4mm         | M5x16   |
| 800003153   | U-6877/1 | T.2, T.2T      | ⬡     | 8mm         | M8x25   |
| 800003160   | U-7386/1 | T.0, T.1, T.1X | ⬡     | 10mm        | M10x30  |
| 800003156   | U-6881/1 | T.3, T.3HX     | ⬡     | 13mm        | M12x40  |

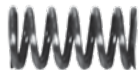

**POSITIONIERBOLZEN  
LOCATION PIN**

| Artikel Nr. | Typ      | Für Typ   |
|-------------|----------|-----------|
| Code No.    | Type     | For Type  |
| 800003741   | U-7485/0 | T.0       |
| 800003742   | U-6863/0 | T.1, T.1X |
| 800003743   | U-5760/0 | T.2, T.2T |
| 800003744   | U-6871/0 | T.3       |
| 800003745   | U-7487/0 | T.3HX     |


**T-SCHLÜSSEL  
T WRENCH**

- T-Schlüssel
- T-wrench with hexagon socket

| Artikel Nr. | Typ        | Für Typ    |     |
|-------------|------------|------------|-----|
| Code No.    | Type       | For Type   |     |
| 800003168   | KL 4414-48 | T00M, T00B | 4mm |


**FEDER  
SPRING**

| Artikel Nr. | Typ      | Für Typ        |
|-------------|----------|----------------|
| Code No.    | Type     | For Type       |
| 800003102   | U-5510/0 | T.00M, T.00B   |
| 800003753   | U-6862/0 | T.0, T.1, T.1X |
| 800003754   | U-5759/0 | T.2, T.2T      |
| 800003755   | U-6870/0 | T.3, T.3HX     |


**SECHSKANTSCHLÜSSEL  
HEX WRENCH**

- Sechskantschlüssel
- L-wrench with hexagon socket

| Artikel Nr. | Typ                 | Für Typ        |
|-------------|---------------------|----------------|
| Code No.    | Type                | For Type       |
| 800003103   | KL 4414-48 HEX      | T.00M, T.00B   |
| 800003149   | KL 4414-62X51 HEX   | T.0, T.1, T.1X |
| 800003118   | KL 4414-82X71 HEX   | T.2, T.2T      |
| 800003150   | KL 4414-100X108 HEX | T.3, T.3HX     |



- Set mit drei Mitnehmern für die Linksrotation
- Set of 3 drivers for left rotations

| Artikel Nr. | Typ      | Für Typ   |
|-------------|----------|-----------|
| Code No.    | Type     | For Type  |
| 800002748   | S-2084/1 | 800002740 |
| 800002748   | S-2084/1 | 800002741 |
| 800002751   | S-2031/1 | 800002742 |
| 800002751   | S-2031/1 | 800002743 |
| 800002754   | S-2041/1 | 800002744 |
| 800002756   | S-2243/0 | 800002745 |



- Set mit drei Mitnehmern für die Rechtsrotation
- Set of 3 drivers for right rotations

| Artikel Nr. | Typ      | Für Typ   |
|-------------|----------|-----------|
| Code No.    | Type     | For Type  |
| 800002747   | S-2084/0 | 800002740 |
| 800002747   | S-2084/0 | 800002741 |
| 800002750   | S-2031/0 | 800002742 |
| 800002750   | S-2031/0 | 800002743 |
| 800002753   | S-2041/0 | 800002744 |
| 800002755   | S-2242/0 | 800002745 |

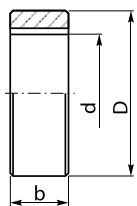


- Zentrierspitze
- Centering tip

| Artikel Nr. | Typ      | Für Typ   |
|-------------|----------|-----------|
| Code No.    | Type     | For Type  |
| 800002746   | S-2083/0 | 800002740 |
| 800002746   | S-2083/0 | 800002741 |
| 800002749   | S-2030/0 | 800002742 |
| 800002749   | S-2030/0 | 800002743 |
| 800002752   | S-2040/0 | 800002744 |
| 800002752   | S-2240/0 | 800002745 |

## 7285

- Fräsdornringe
- Spacer rings for milling arbors



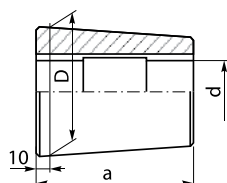
| Artikel Nr.<br>Code No. | d  | D  | b  |
|-------------------------|----|----|----|
| 800001312               | 16 | 26 | 1  |
| 800001313               | 16 | 27 | 2  |
| 800001314               | 16 | 27 | 3  |
| 800001315               | 16 | 27 | 6  |
| 800001316               | 16 | 27 | 10 |
| 800001317               | 16 | 27 | 20 |
| 800001318               | 16 | 27 | 30 |
| 800001320               | 22 | 33 | 1  |
| 800001321               | 22 | 34 | 2  |
| 800001322               | 22 | 34 | 3  |

| Artikel Nr.<br>Code No. | d  | D  | b   |
|-------------------------|----|----|-----|
| 800001323               | 22 | 34 | 6   |
| 800001324               | 22 | 34 | 10  |
| 800001325               | 22 | 34 | 20  |
| 800001326               | 22 | 34 | 30  |
| 800001327               | 22 | 34 | 60  |
| 800001328               | 27 | 40 | 1   |
| 800001329               | 27 | 41 | 2   |
| 800001330               | 27 | 41 | 3   |
| 800001331               | 27 | 41 | 6   |
| 800001332               | 27 | 41 | 10  |
| 800001333               | 27 | 41 | 20  |
| 800001334               | 27 | 41 | 30  |
| 800001335               | 27 | 41 | 60  |
| 800001336               | 27 | 41 | 100 |
| 800001337               | 32 | 46 | 1   |
| 800001338               | 32 | 47 | 2   |
| 800001339               | 32 | 47 | 3   |
| 800001340               | 32 | 47 | 6   |
| 800001341               | 32 | 47 | 10  |
| 800001342               | 32 | 47 | 20  |
| 800001343               | 32 | 47 | 30  |
| 800001344               | 32 | 47 | 60  |
| 800001345               | 32 | 47 | 100 |
| 800001346               | 40 | 54 | 1   |
| 800001347               | 40 | 55 | 2   |

| Artikel Nr.<br>Code No. | d  | D  | b   |
|-------------------------|----|----|-----|
| 800001348               | 40 | 55 | 3   |
| 800001349               | 40 | 55 | 6   |
| 800001350               | 40 | 55 | 10  |
| 800001351               | 40 | 55 | 20  |
| 800001352               | 40 | 55 | 30  |
| 800001353               | 40 | 55 | 60  |
| 800001354               | 40 | 55 | 100 |
| 800001355               | 50 | 68 | 1   |
| 800001356               | 50 | 69 | 2   |
| 800001357               | 50 | 69 | 3   |
| 800001358               | 50 | 69 | 6   |
| 800001359               | 50 | 69 | 10  |
| 800001360               | 50 | 69 | 20  |
| 800001361               | 50 | 69 | 30  |
| 800001362               | 50 | 69 | 60  |
| 800001363               | 50 | 69 | 100 |
| 800001364               | 60 | 83 | 1   |
| 800001365               | 60 | 84 | 2   |
| 800001366               | 60 | 84 | 3   |
| 800001367               | 60 | 84 | 6   |
| 800001368               | 60 | 84 | 10  |
| 800001369               | 60 | 84 | 20  |
| 800001370               | 60 | 84 | 30  |
| 800001372               | 60 | 84 | 60  |
| 800001373               | 60 | 84 | 100 |

## 7272

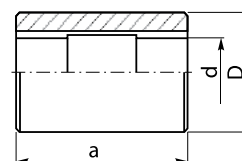
- Laufbuchse
- Conical bushings for milling arbors



| Artikel Nr.<br>Code No. | d  | D  | a   |
|-------------------------|----|----|-----|
| 800001258               | 16 | 47 | 80  |
| 800001259               | 22 | 47 | 80  |
| 800001260               | 22 | 70 | 100 |
| 800001261               | 27 | 47 | 80  |
| 800001262               | 27 | 70 | 100 |
| 800001263               | 32 | 47 | 80  |
| 800001264               | 32 | 70 | 100 |
| 800001265               | 40 | 70 | 100 |
| 800001266               | 40 | 86 | 100 |
| 800001267               | 50 | 70 | 100 |
| 800001268               | 50 | 86 | 100 |
| 800001269               | 60 | 86 | 100 |

## 7275

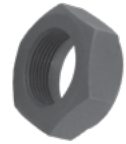
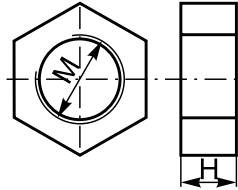
- Laufbuchse
- Cylindrical bushings for milling arbors



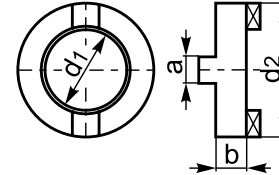
| Artikel Nr.<br>Code No. | d  | D  | a   |
|-------------------------|----|----|-----|
| 800001270               | 16 | 42 | 60  |
| 800001271               | 16 | 48 | 70  |
| 800001273               | 16 | 56 | 80  |
| 800001274               | 22 | 42 | 60  |
| 800001275               | 22 | 48 | 70  |
| 800001278               | 22 | 56 | 80  |
| 800001279               | 22 | 70 | 100 |
| 800001281               | 27 | 42 | 60  |

| Artikel Nr.<br>Code No. | d   | D   | a   |
|-------------------------|-----|-----|-----|
| 800001283               | 27  | 48  | 70  |
| 800001285               | 27  | 56  | 80  |
| 800001286               | 27  | 70  | 100 |
| 800001288               | 27  | 85  | 120 |
| 800001290               | 32  | 48  | 70  |
| 800001292               | 32  | 56  | 80  |
| 800001293               | 32  | 70  | 100 |
| 800001295               | 32  | 85  | 120 |
| 800001297               | 40  | 56  | 80  |
| 800001298               | 40  | 70  | 100 |
| 800001300               | 40  | 85  | 120 |
| 800001303               | 50  | 70  | 100 |
| 800001305               | 50  | 85  | 120 |
| 800001301               | 50  | 110 | 140 |
| 800001306               | 60  | 110 | 140 |
| 800001308               | 80  | 110 | 140 |
| 800001311               | 100 | 140 | 160 |

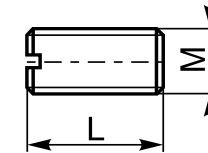



**SPANNMUTTER**  
 DRAW OFF NUT


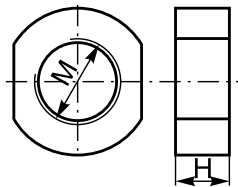
| Artikel Nr.<br>Code No. | Typ<br>Type | M         | L    |
|-------------------------|-------------|-----------|------|
| 800003031               | S-0772/0    | M12 x 1,5 | 10,5 |
| 800003032               | S-0774/0    | M16 x 1,5 | 12   |
| 800003033               | S-0776/0    | M22 x 1,5 | 15,5 |
| 800003034               | S-0778/0    | M27 x 1,5 | 17,5 |
| 800003035               | S-0780/0    | M36 x 1,5 | 21   |
| 800003036               | S-0782/0    | M48 x 1,5 | 23   |
| 800003037               | S-0784/0    | M68 x 1,5 | 25,5 |


**MITNEHMERRING**  
 DRIVING RING


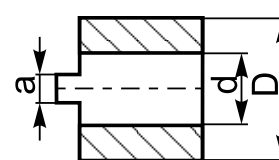
| Artikel Nr.<br>Code No. | Typ<br>Type | d <sub>1</sub> | d <sub>2</sub> | a  | b  |
|-------------------------|-------------|----------------|----------------|----|----|
| 800003084               | U-1364/0    | 16             | 32             | 8  | 10 |
| 800003085               | U-1365/0    | 22             | 40             | 10 | 12 |
| 800003086               | U-1366/0    | 27             | 48             | 12 | 12 |
| 800003087               | U-1367/0    | 32             | 58             | 14 | 14 |
| 800003088               | U-1368/0    | 40             | 70             | 16 | 14 |
| 800003089               | U-1369/0    | 50             | 90             | 18 | 16 |


**EINSTELLBOLZEN**  
 SLOTTED SCREW


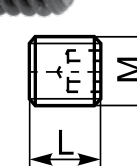
| Artikel Nr.<br>Code No. | Typ<br>Type | M   | L  |
|-------------------------|-------------|-----|----|
| 800005796               | U-0293/0    | M8  | 16 |
| 800005797               | U-0757/0    | M10 | 20 |
| 800005798               | U-1599/0    | M5  | 12 |
| 800005799               | U-6317/0    | M6  | 14 |
| 800005800               | U-6318/0    | M12 | 22 |
| 800005801               | U-6793/0    | M16 | 30 |
| 800005802               | U-6794/0    | M20 | 40 |


**SPANNMUTTER**  
 DRAW OFF NUT  
 FOR 5310 REAMERS


| Artikel Nr.<br>Code No. | Typ<br>Type | M         | L  |
|-------------------------|-------------|-----------|----|
| 800003039               | S-0881/0    | M12 x 1   | 6  |
| 800003041               | S-0884/0    | M16 x 1,5 | 7  |
| 800003043               | S-0887/0    | M20 x 1   | 8  |
| 800003045               | S-0891/0    | M22 x 1   | 9  |
| 800003047               | S-0894/0    | M27 x 2   | 12 |
| 800003049               | S-0897/0    | M30 x 2   | 12 |
| 800003052               | S-0901/0    | M36 x 3   | 14 |
| 800003054               | S-0905/0    | M45 x 3   | 16 |
| 800003056               | S-0909/0    | M52 x 3   | 16 |


**MITNEHMERRING**  
 DRIVING RING  
 FOR 5310 REAMERS


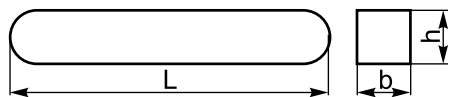
| Artikel Nr.<br>Code No. | Typ<br>Type | a  | d  | D  |
|-------------------------|-------------|----|----|----|
| 800003038               | S-0880/0    | 4  | 10 | 18 |
| 800003040               | S-0883/0    | 4  | 13 | 21 |
| 800003042               | S-0886/0    | 5  | 16 | 27 |
| 800003044               | S-0890/0    | 6  | 19 | 32 |
| 800003046               | S-0893/0    | 7  | 22 | 39 |
| 800003048               | S-0896/0    | 8  | 27 | 46 |
| 800003051               | S-0900/0    | 10 | 32 | 56 |
| 800003053               | S-0904/0    | 12 | 40 | 65 |
| 800003055               | S-0908/0    | 14 | 50 | 80 |


**EINSTELLBOLZEN**  
 HEX SOCKET SCREW


| Artikel Nr.<br>Code No. | Typ<br>Type | M     | L   |
|-------------------------|-------------|-------|-----|
| 800005822               | S-2628/0    | M14x1 | 7   |
| 800005823               | U-1997/0    | M6    | 6   |
| 800003091               | U-4131/0    | M6    | 10  |
| 800003092               | U-4132/0    | M8    | 10  |
| 800003093               | U-4133/0    | M10   | 12  |
| 800003094               | U-4134/0    | M12   | 16  |
| 800003095               | U-4135/0    | M14   | 16  |
| 800003096               | U-4136/0    | M16   | 16  |
| 800003097               | U-4137/0    | M18x2 | 20  |
| 800003098               | U-4138/0    | M20x2 | 20  |
| 800003099               | U-4139/0    | M24x2 | 25  |
| 800003107               | U-5870/0    | M20x2 | 25  |
| 800003108               | U-5887/0    | M14   | 15  |
| 800003109               | U-5888/0    | M16   | 13  |
| 800003144               | U-6755/0    | M16x1 | 6,5 |
| 800003145               | U-6756/0    | M16   | 10  |
| 800003146               | U-6757/0    | M18x2 | 9,5 |
| 800003157               | U-7381/0    | M8    | 6   |
| 800003158               | U-7382/0    | M10   | 10  |

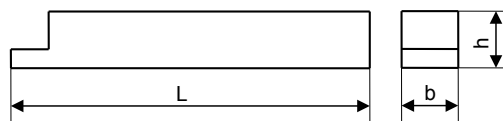


**PASSFEDER A**  
DRIVE KEY A



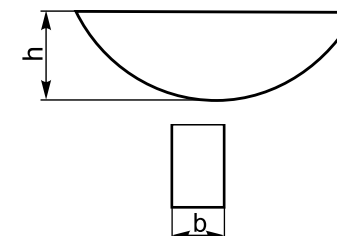
| Artikel Nr. | Typ      | L  | b  | h   |
|-------------|----------|----|----|-----|
| Code No.    | Type     |    |    |     |
| 800005745   | U-1355/0 | 20 | 4  | 5   |
| 800005746   | U-1356/0 | 25 | 6  | 5   |
| 800005747   | U-1357/0 | 25 | 7  | 8   |
| 800005748   | U-1358/0 | 32 | 8  | 7,6 |
| 800005749   | U-1359/0 | 32 | 10 | 8,6 |
| 800003083   | U-1360/0 | 36 | 12 | 9   |

**PASSFEDER B**  
DRIVE KEY B



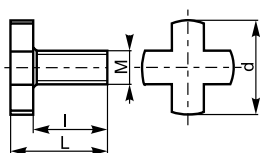
| Artikel Nr. | Typ      | L  | b  | h |
|-------------|----------|----|----|---|
| Code No.    | Type     |    |    |   |
| 800003132   | U-6526/0 | 45 | 4  | 4 |
| 800003133   | U-6527/0 | 75 | 4  | 4 |
| 800003134   | U-6528/0 | 45 | 6  | 6 |
| 800003135   | U-6529/0 | 75 | 6  | 6 |
| 800003136   | U-6530/0 | 45 | 7  | 7 |
| 800003137   | U-6531/0 | 75 | 7  | 7 |
| 800003138   | U-6532/0 | 45 | 8  | 7 |
| 800003139   | U-6533/0 | 75 | 8  | 7 |
| 800003140   | U-6534/0 | 45 | 10 | 8 |
| 800003141   | U-6535/0 | 75 | 10 | 8 |

**PASSFEDER C**  
DRIVE KEY C



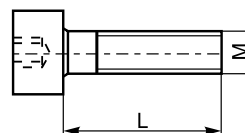
| Artikel Nr. | Typ      | b  | h   |
|-------------|----------|----|-----|
| Code No.    | Type     |    |     |
| 800003050   | S-0898/0 | 6  | 9   |
| 800003068   | U-0097/0 | 3  | 3,7 |
| 800003069   | U-0098/0 | 5  | 6,5 |
| 800003071   | U-0106/0 | 12 | 19  |
| 800003078   | U-0648/0 | 4  | 5   |
| 800003079   | U-0649/0 | 8  | 11  |
| 800003080   | U-0650/0 | 10 | 16  |

**ANZUGSSCHRAUBE**  
CUTTER RETAINING SCREW



| Artikel Nr. | Typ      | M   | l  | d  | L  |
|-------------|----------|-----|----|----|----|
| Code No.    | Type     |     |    |    |    |
| 800003072   | U-0620/0 | M8  | 16 | 20 | 22 |
| 800003073   | U-0621/0 | M10 | 18 | 28 | 25 |
| 800003074   | U-0622/0 | M12 | 22 | 35 | 30 |
| 800003075   | U-0623/0 | M16 | 26 | 42 | 35 |
| 800003076   | U-0624/0 | M20 | 30 | 52 | 40 |
| 800003077   | U-0625/0 | M24 | 36 | 63 | 48 |

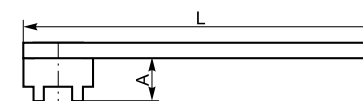
**SCHRAUBE**  
HEX SOCKET HEAD SCREW



| Artikel Nr. | Typ      | M   | L  |
|-------------|----------|-----|----|
| Code No.    | Type     |     |    |
| 800005895   | U-1414/0 | M12 | 40 |
| 800005905   | U-2042/0 | M16 | 50 |
| 800005892   | U-5335/0 | M8  | 40 |
| 800005891   | U-6520/0 | M8  | 70 |
| 800003131   | U-6523/0 | M10 | 80 |
| 800005894   | U-6524/0 | M10 | 80 |
| 800005890   | U-7682/0 | M6  | 35 |
| 800005893   | U-7683/0 | M10 | 40 |
| 800003161   | U-7790/0 | M12 | 35 |
| 800005624   | W-1091/0 | M6  | 25 |
| 800005625   | W-1092/0 | M10 | 25 |
| 800005626   | W-1093/0 | M12 | 30 |
| 800005627   | W-1094/0 | M16 | 40 |
| 800005628   | W-1095/0 | M10 | 30 |
| 800005629   | W-1096/0 | M12 | 40 |
| 800005630   | W-1097/0 | M16 | 40 |
| 800005631   | W-1098/0 | M20 | 50 |

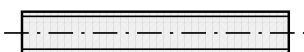
**9876**

- Spannschlüssel
- Wrench for cross head screws



| Artikel Nr. | Typ        | Größe | L   | A  |
|-------------|------------|-------|-----|----|
| Code No.    | Type       | Size  |     |    |
| 800003756   | KL 9876-13 | 13    | 160 | 16 |
| 800002989   | KL 9876-16 | 16    | 180 | 20 |
| 800002990   | KL 9876-22 | 22    | 200 | 23 |
| 800002991   | KL 9876-27 | 27    | 225 | 32 |
| 800002992   | KL 9876-32 | 32    | 250 | 36 |
| 800002993   | KL 9876-40 | 40    | 280 | 40 |
| 800002994   | KL 9876-50 | 50    | 315 | 45 |
| 800002995   | KL 9876-60 | 60    | 355 | 50 |

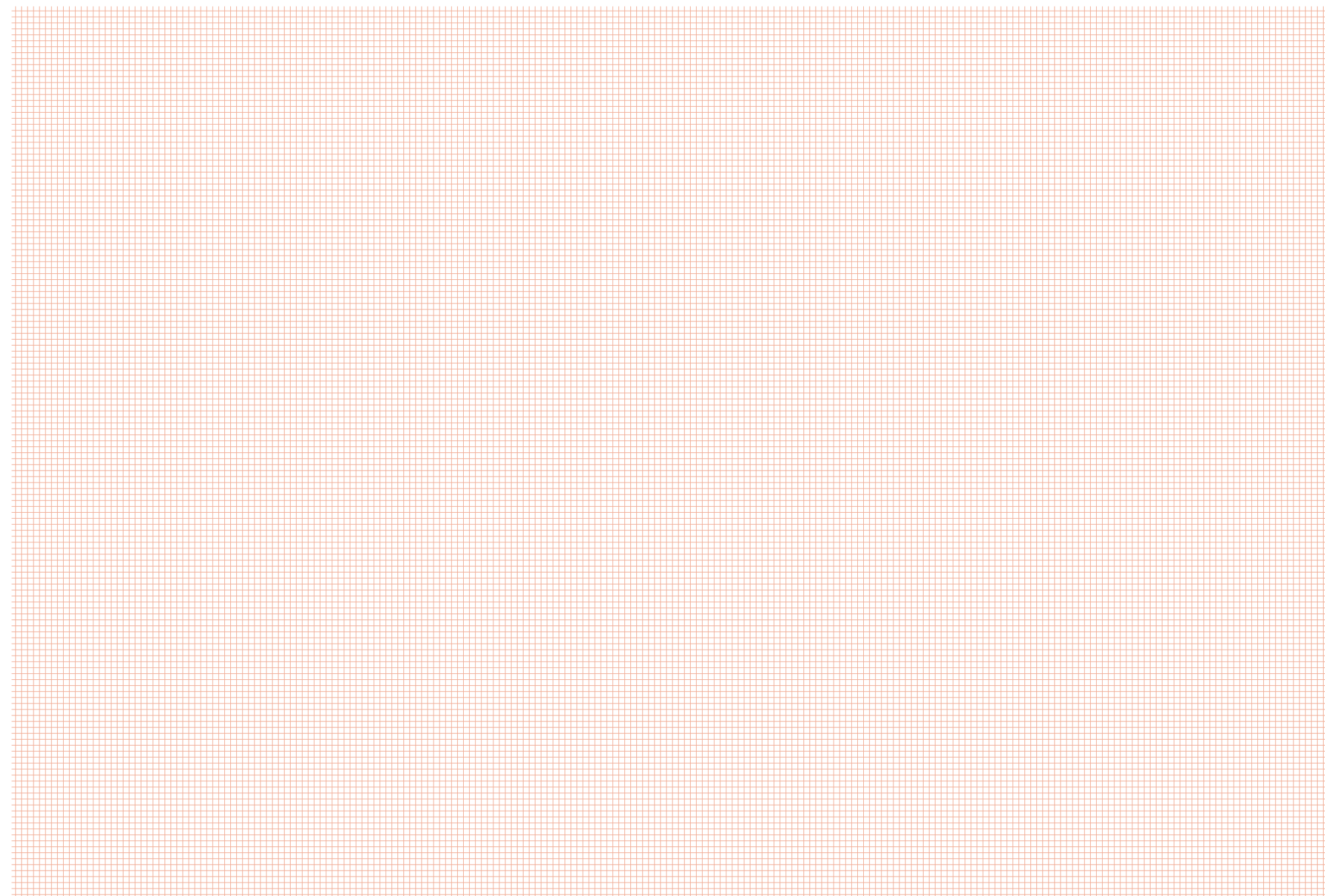
**EINSTELLBOLZEN**  
STUD



| Artikel Nr. | Typ      | Für Typ        |
|-------------|----------|----------------|
| Code No.    | Type     | For Type       |
| 800005900   | U-5515/1 | T.00M          |
| 800005901   | U-5515/0 | T.00B          |
| 800005902   | U-8578/0 | T.0, T.1, T.1X |
| 800005903   | U-5754/0 | T.2, T.2T      |
| 800005904   | U-5997/0 | T.3, T.3HX     |







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