



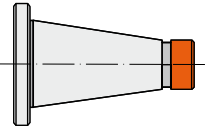
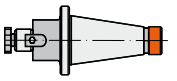
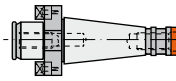
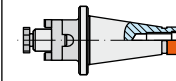
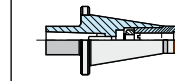
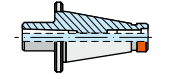
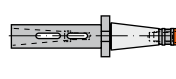
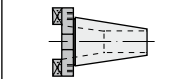
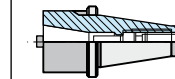
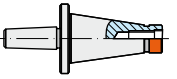
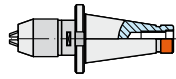
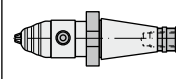
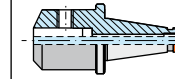
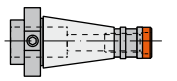
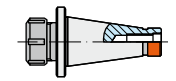
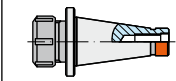
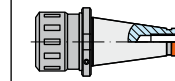
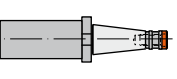
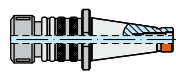
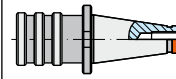
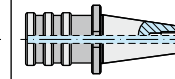
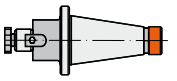
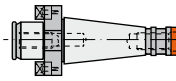
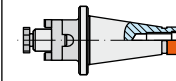
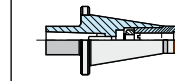
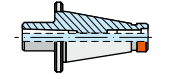
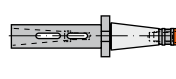
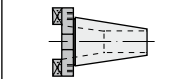
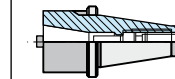
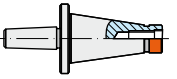
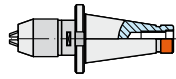
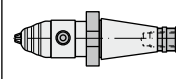
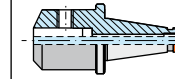
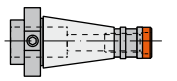
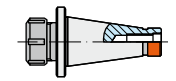
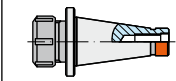
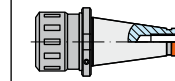
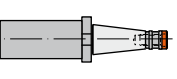
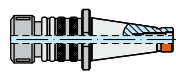
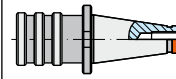
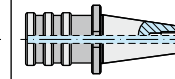
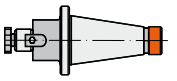
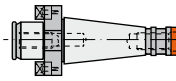
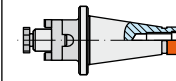
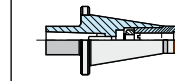
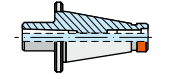
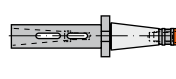
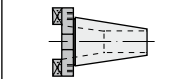
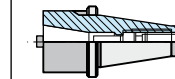
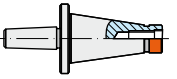
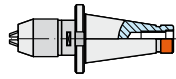
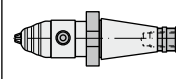
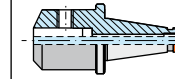
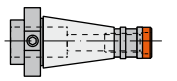
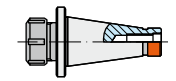
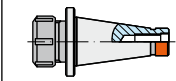
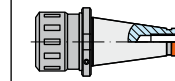
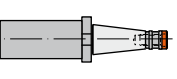
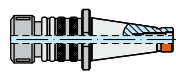
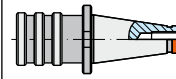
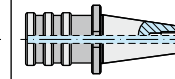
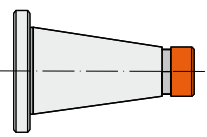
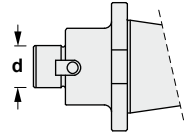
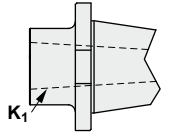
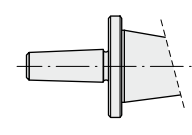
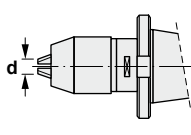
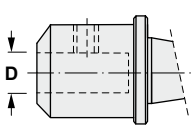
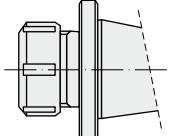
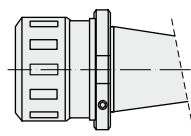
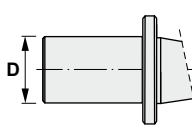
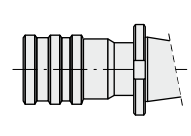
DIN 2080

| | |
|--|---------------|
| Code system Kodifizierung | I02 |
| Technical information Technische Auskünfte | I03 |
| Applications index Anwendungen | I04 |
| Arbors and adaptors DIN 2080 Aufnahmen DIN 2080 | I05-24 |
| Special tool request Sonderwerkzeug-Anfrage | I25 |



Code system / Kodifizierung

| | | | |
|-----------|------------|-----------|-----------|
| 10 | 160 | 30 | 16 |
| 1 | 2 | 3 | 4 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|--|--|--|--|--|--|--|--|--|---|---|--|---|-----|-----|-----|-----|---|---|--|---|-----|-----|-----|-----|---|---|--|---|-----|-----|-----|-----|---|---|--|---|-----|-----|-----|-----|---|---|--|---|-----|-----|-----|-----|
| 1 Model Modell  10 DIN 2080 | | 2 Arbor type Aufnahmen-Typ <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>160</td> <td>165</td> <td>180</td> <td>210</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>215</td> <td>216</td> <td>220</td> <td>225</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>290</td> <td>295</td> <td>296</td> <td>300</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>302</td> <td>353</td> <td>453</td> <td>457</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>470</td> <td>610</td> <td>620</td> <td>630</td> </tr> </table> | | | | | | | | | | | |  |  |  |  | 160 | 165 | 180 | 210 |  |  |  |  | 215 | 216 | 220 | 225 |  |  |  |  | 290 | 295 | 296 | 300 |  |  |  |  | 302 | 353 | 453 | 457 |  |  |  |  | 470 | 610 | 620 | 630 |
|  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 165 | 180 | 210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 215 | 216 | 220 | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 290 | 295 | 296 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 302 | 353 | 453 | 457 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 470 | 610 | 620 | 630 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Arbor size Aufnahmegröße ISO  ISO 30 30 ISO 40 40 ISO 50 50 DIN 2080 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 Adaptor size Adaptergröße | | | | K ₁ - MORSE  d Ø 16 Ø 22 Ø 27 Ø 32 Ø 40 Ø 60 16 22 27 32 40 60 | | | | K ₁ - ISO  K ₁ ISO 30 ISO 40 30 40 | | | |  B12 B16 B18 12 16 18 | | | |  d Ø 8 Ø 13 Ø 16 8 13 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  D Ø 6 ... Ø 50 6 ... 50 | | | |  ER16 ER20 ER25 ER32 ER40 16 20 25 32 40 | | | |  ER16 ER20 ER25 ER32 ER40 16 20 25 32 40 | | | |  D Ø 50 Ø 63 Ø 80 Ø 85 Ø 90 50 63 80 85 90 | | | |  M3-M12 M4-M20 M8-M33 12 20 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AT3 TECHNICAL CHARACTERISTICS OF THE TOOLHOLDERS AT3 TECHNISCHE EIGENSCHAFTEN DER AUFNAHMEN

MATERIAL:

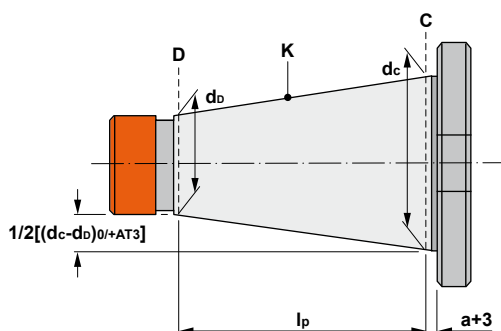
- Chromium-manganese carburised steel 1.7131 (16MnCr5).

EXECUTION:

- Carburised, hardened and tempered.
- Surface hardness HRC 58±2 (670±40 HV30)
- Depth of carburised layer minimum 0,5 mm.
- Tensile strength in core minimum 800 N/mm2 after carburizing.

ACCURACY:

- Taper according to DIN 254
- Taper angle:
tolerance AT 3 DIN 7178 part 1 and DIN 2080 part 1.
- Other tolerances according to DIN 7160 and 7168.
- Taper surface roughness RZ<0,001 mm.



TOLERANCE AT:

- Indicates the tolerance of measuring plane D between the real and the theoretical value of the taper conicity.
- This value of measuring plane D must always be less (negative), never more (positive) in order to GUARANTEE a good toolholder fixation at the bigger taper diameter.

MATERIALIEN:

- Legierter aufgekohlter Stahl mit Chrom-Mangan 1.7131 (16MnCr5).

KONSTRUKTIONS DATEN:

- Aufgekühlt, gehärtet und angelassen.
- Oberflächenhärte HRC 58±2 (670±40 HV30)
- Aufgekühlt auf minimum 0,5 mm Tiefe.
- Zugfestigkeit im Kern minimum 800 N/mm2 nach der Aufkohlung.

GENAUIGKEIT:

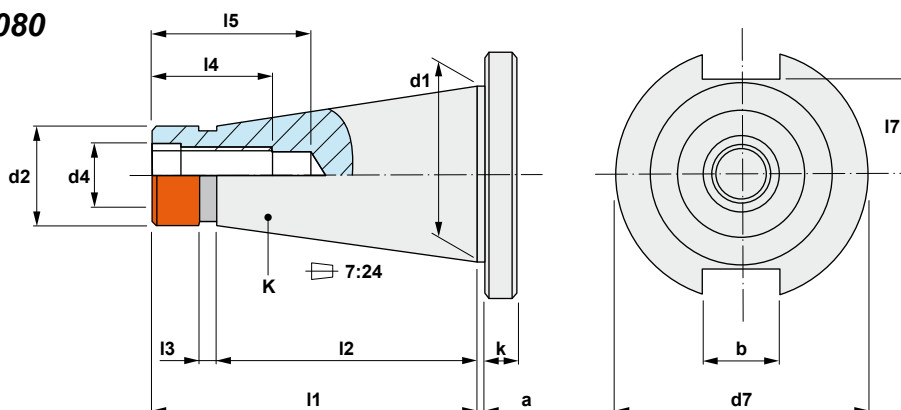
- Dorn nach DIN 254
- Kegelminkel:
Toleranz AT 3 DIN 7178 Teil 1 und DIN 2080 Teil 1.
- Andere Toleranzen entsprechend DIN 7160 und 7168.
- Rauigkeit der Oberfläche RZ<0,001 mm.

| K | AT3 mm |
|--------|--------|
| ISO 30 | 0,002 |
| ISO 40 | 0,003 |
| ISO 45 | 0,003 |
| ISO 50 | 0,004 |
| ISO 60 | 0,005 |

TOLERANZ AT:

- Zeigt die Toleranz auf der Messebene D zwischen dem tatsächlichen Wert der Kegelkonizität und dem theoretischen Wert.
- Dieser Wert auf der Messebene D sollte immer minus (negativ) sein, nie plus (positiv), um für einen guten Halt des Futter in den größeren Durchmesser des Kegels zu GARANTIEREN.

10 DIN 2080



| K | a ±0,2 | b H12 | d1 | d2 | d4 | d7 | k | l1 | l2 | l3 | l4 | l5 min | l7 max |
|----|--------|-------|--------|------|-----|-------|----|-------|-------|----|----|--------|--------|
| 30 | 1,6 | 16,1 | 31,75 | 17,4 | M12 | 50,0 | 8 | 68,4 | 48,4 | 3 | 24 | 33,5 | 16,2 |
| 40 | 1,6 | 16,1 | 44,45 | 25,3 | M16 | 63,0 | 10 | 93,4 | 65,4 | 5 | 32 | 42,5 | 22,5 |
| 45 | 3,2 | 19,3 | 57,15 | 32,4 | M20 | 80,0 | 12 | 106,8 | 82,8 | 6 | 40 | 52,5 | 29,0 |
| 50 | 3,2 | 25,7 | 69,85 | 39,6 | M24 | 97,5 | 12 | 126,8 | 101,8 | 8 | 47 | 61,5 | 35,3 |
| 60 | 3,2 | 25,7 | 107,95 | 60,2 | M30 | 156,0 | 16 | 206,8 | 161,8 | 10 | 59 | 76,0 | 60,0 |

Arbors and adaptors DIN 2080
Aufnahmen DIN 2080

10.160



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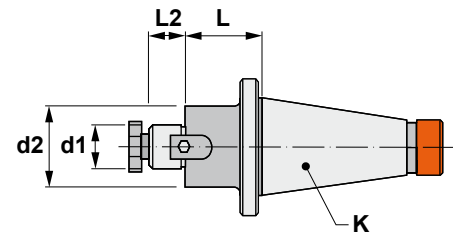


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Characteristics:
Shell mill adaptor.
DIN 2080 / ISO 3937
For cutters with driving
slot DIN 138.

Eigenschaften:
Aufsteckfräsdorne.
DIN 2080 / ISO 3937
Für Fräser mit Quernut DIN 138.



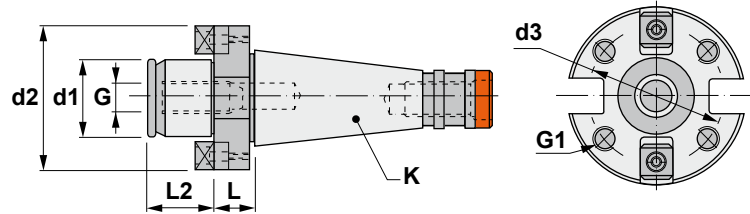
10.160

| Reference Bezeichnung | K ISO | d1 h6 | L | L2 | d2 |  |  |  |  |
|--------------------------|-------|-------|-----|----|----|---|---|---|---|
| 10.160.30.16 | 30 | 16 | 30 | 17 | 38 | 10008 | 86016 | 11103 | 0,480 |
| 10.160.30.22 | 30 | 22 | 30 | 19 | 48 | 10010 | 86022 | 11004 | 0,570 |
| 10.160.30.27 | 30 | 27 | 30 | 21 | 58 | 10012 | 86027 | 11005 | 0,700 |
| 10.160.30.32 | 30 | 32 | 35 | 24 | 78 | 10016 | 86032 | 11105 | 0,840 |
| 10.160.40.16 | 40 | 16 | 30 | 17 | 38 | 10008 | 86016 | 11103 | 0,950 |
| 10.160.40.16/100 | 40 | 16 | 100 | 17 | 38 | 10008 | 86016 | 11103 | 1,370 |
| 10.160.40.22 | 40 | 22 | 30 | 19 | 48 | 10010 | 86022 | 11004 | 1,040 |
| 10.160.40.22/100 | 40 | 22 | 100 | 19 | 48 | 10010 | 86022 | 11004 | 1,830 |
| 10.160.40.27 | 40 | 27 | 30 | 21 | 58 | 10012 | 86027 | 11005 | 1,160 |
| 10.160.40.27/100 | 40 | 27 | 100 | 21 | 58 | 10012 | 86027 | 11005 | 2,310 |
| 10.160.40.32 | 40 | 32 | 35 | 24 | 63 | 10016 | 86032 | 11105 | 1,320 |
| 10.160.40.32/125 | 40 | 32 | 125 | 24 | 63 | 10016 | 86032 | 11105 | 3,134 |
| 10.160.40.40 | 40 | 40 | 40 | 27 | 73 | 10020 | 86040 | 11006 | 1,620 |
| 10.160.50.16 | 50 | 16 | 35 | 17 | 38 | 10008 | 86016 | 11103 | 2,840 |
| 10.160.50.16/150 | 50 | 16 | 150 | 17 | 38 | 10008 | 86016 | 11103 | 3,600 |
| 10.160.50.22 | 50 | 22 | 35 | 19 | 48 | 10010 | 86022 | 11004 | 2,950 |
| 10.160.50.22/150 | 50 | 22 | 150 | 19 | 48 | 10010 | 86022 | 11004 | 4,270 |
| 10.160.50.27 | 50 | 27 | 35 | 21 | 58 | 10012 | 86027 | 11005 | 3,070 |
| 10.160.50.27/150 | 50 | 27 | 150 | 21 | 58 | 10012 | 86027 | 11005 | 5,070 |
| 10.160.50.32 | 50 | 32 | 40 | 24 | 63 | 10016 | 86032 | 11105 | 3,230 |
| 10.160.50.32/150 | 50 | 32 | 150 | 24 | 63 | 10016 | 86032 | 11105 | 6,370 |
| 10.160.50.40 | 50 | 40 | 40 | 27 | 73 | 10020 | 86040 | 11006 | 3,990 |
| 10.160.50.40/150 | 50 | 40 | 150 | 27 | 73 | 10020 | 86040 | 11006 | 7,190 |
| 10.160.50.50 | 50 | 50 | 40 | 30 | 90 | 10024 | 86050 | 11008 | 3,990 |






Characteristics:
Adaptor for indexable milling cutters.
DIN 2080 / DIN 6357 - Form A

Eigenschaften:
Zwischenhülsen für Fräser.
DIN 2080 / DIN 6357 - Form A



10.165

| Reference Bezeichnung | K ISO | d1 g5 | L | d2 | d3 | G | G1 | L2 |  |
|--------------------------|-------|-------|----|-----|-------|------|------|----|---|
| 10.165.40.40 | 40 | 40 | 20 | 89 | 66,7 | M-20 | M-12 | 30 | 1,410 |
| 10.165.50.40 | 50 | 40 | 30 | 89 | 66,7 | M-20 | M-12 | 30 | 3,430 |
| 10.165.50.60 | 50 | 60 | 30 | 129 | 101,6 | M-30 | M-16 | 40 | 4,210 |

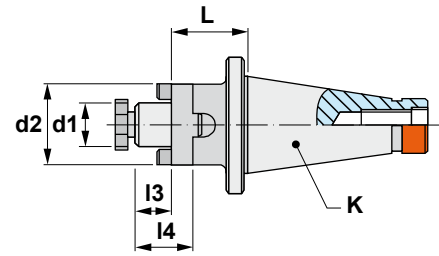
| Reference Bezeichnung | 2x  | 2x  |
|--------------------------|--|--|
| 10.165.40.40 | 80040 | 11006 |
| 10.165.50.40 | 80040 | 11006 |
| 10.165.50.60 | 80060 | 11012 |

**Characteristics:**





Combi-Shell mill adaptor.
DIN 2080 / DIN 6358 - Form A
For cutters with keyway or driving slot DIN 138.

Eigenschaften:

Kombi-Aufsteckfräsdorne
DIN 2080 / DIN 6358 - Form A
Für Fräser mit Längsnut
oder Stirnmitnehmer DIN 138.



10.180

| Reference Bezeichnung | K ISO | d1 h6 | L | I3 | I4 | d2 |  |  |  |  |
|--------------------------|-------|-------|-----|----|----|----|---|---|---|---|
| 10.180.30.16 | 30 | 16 | 35 | 17 | 27 | 32 | 10008 | 60116 | 88016 | 0,560 |
| 10.180.30.22 | 30 | 22 | 35 | 19 | 31 | 40 | 10010 | 60122 | 88022 | 0,690 |
| 10.180.30.27 | 30 | 27 | 35 | 21 | 33 | 48 | 10012 | 60127 | 88027 | 0,830 |
| 10.180.30.32 | 30 | 32 | 50 | 24 | 38 | 58 | 10016 | 60132 | 88032 | 1,360 |
| 10.180.40.16 | 40 | 16 | 52 | 17 | 27 | 32 | 10008 | 60116 | 88016 | 1,130 |
| 10.180.40.16/125 | 40 | 16 | 125 | 17 | 27 | 32 | 10008 | 60116 | 88016 | 1,670 |
| 10.180.40.22 | 40 | 22 | 52 | 19 | 31 | 40 | 10010 | 60122 | 88022 | 1,310 |
| 10.180.40.22/125 | 40 | 22 | 125 | 19 | 31 | 40 | 10010 | 60122 | 88022 | 2,250 |
| 10.180.40.27 | 40 | 27 | 52 | 21 | 33 | 48 | 10012 | 60127 | 88027 | 1,530 |
| 10.180.40.27/125 | 40 | 27 | 125 | 21 | 33 | 48 | 10012 | 60127 | 88027 | 2,930 |
| 10.180.40.32 | 40 | 32 | 52 | 24 | 38 | 58 | 10016 | 60132 | 88032 | 1,840 |
| 10.180.40.32/125 | 40 | 32 | 125 | 24 | 38 | 58 | 10016 | 60132 | 88032 | 3,390 |
| 10.180.40.40 | 40 | 40 | 52 | 27 | 41 | 70 | 10020 | 60140 | 88040 | 2,430 |
| 10.180.50.16 | 50 | 16 | 55 | 17 | 27 | 32 | 10008 | 60116 | 88016 | 3,120 |
| 10.180.50.16/125 | 50 | 16 | 125 | 17 | 27 | 32 | 10008 | 60116 | 88016 | 3,650 |
| 10.180.50.22 | 50 | 22 | 55 | 19 | 31 | 40 | 10010 | 60122 | 88022 | 3,340 |
| 10.180.50.22/125 | 50 | 22 | 125 | 19 | 31 | 40 | 10010 | 60122 | 88022 | 3,650 |
| 10.180.50.22/200 | 50 | 22 | 200 | 19 | 31 | 40 | 10010 | 60122 | 88022 | 5,130 |
| 10.180.50.27 | 50 | 27 | 55 | 21 | 33 | 48 | 10012 | 60127 | 88027 | 3,520 |
| 10.180.50.27/125 | 50 | 27 | 125 | 21 | 33 | 48 | 10012 | 60127 | 88027 | 4,860 |
| 10.180.50.27/200 | 50 | 27 | 200 | 21 | 33 | 48 | 10012 | 60127 | 88027 | 6,220 |
| 10.180.50.32 | 50 | 32 | 55 | 24 | 38 | 58 | 10016 | 60132 | 88032 | 3,830 |
| 10.180.50.32/125 | 50 | 32 | 125 | 24 | 38 | 58 | 10016 | 60132 | 88032 | 5,980 |
| 10.180.50.32/200 | 50 | 32 | 200 | 24 | 38 | 58 | 10016 | 60132 | 88032 | 8,280 |
| 10.180.50.40 | 50 | 40 | 55 | 27 | 41 | 70 | 10020 | 60140 | 88040 | 4,420 |
| 10.180.50.40/125 | 50 | 40 | 125 | 27 | 41 | 70 | 10020 | 60140 | 88040 | 6,770 |
| 10.180.50.50 | 50 | 50 | 55 | 30 | 46 | 90 | 10024 | 60150 | 88050 | 4,400 |

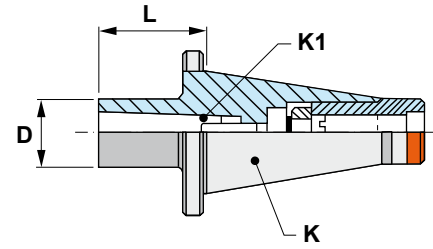


Characteristics:


Reducing adaptors.
DIN 2080 / DIN 6364 - Form A ISO 5415
For tools with Morse taper shank and
drawbar thread DIN 228-A.




Eigenschaften:

Reduzierhülsen.
DIN 2080 / DIN 6364 - Form A ISO 5415
Für Werkzeuge mit Morsekegel und
Anzugsgewinde DIN 228-A.



10.210

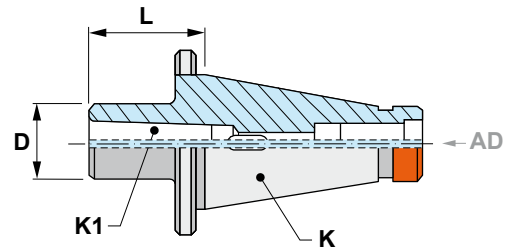
| Reference Bezeichnung | K ISO | K1 MORSE | L | D |  |
|--------------------------|-------|----------|-----|----|---|
| 10.210.30.01 | 30 | 1 | 50 | 25 | 0,480 |
| 10.210.30.02 | 30 | 2 | 50 | 32 | 0,570 |
| 10.210.30.03 | 30 | 3 | 76 | 40 | 0,750 |
| 10.210.40.01 | 40 | 1 | 50 | 25 | 0,940 |
| 10.210.40.02 | 40 | 2 | 50 | 32 | 0,940 |
| 10.210.40.03 | 40 | 3 | 65 | 40 | 1,110 |
| 10.210.40.04 | 40 | 4 | 95 | 48 | 1,520 |
| 10.210.50.01 | 50 | 1 | 60 | 25 | 2,940 |
| 10.210.50.02 | 50 | 2 | 60 | 32 | 2,960 |
| 10.210.50.03 | 50 | 3 | 65 | 40 | 3,020 |
| 10.210.50.04 | 50 | 4 | 65 | 48 | 3,070 |
| 10.210.50.05 | 50 | 5 | 100 | 63 | 3,540 |

| Reference Bezeichnung |  |  |  |
|--------------------------|---|---|---|
| 10.210.30.01 | 16004 | 19312 | 11406 |
| 10.210.30.02 | 16005 | 19315 | 12110 |
| 10.210.30.03 | 16005 | 19318 | 12012 |
| 10.210.40.01 | 16105 | 19516 | 11506 |
| 10.210.40.02 | 16205 | 19416 | 12110 |
| 10.210.40.03 | 16205 | 19420 | 11312 |
| 10.210.40.04 | 16205 | 19322 | 12016 |
| 10.210.50.01 | 16205 | 19624 | 11206 |
| 10.210.50.02 | 16205 | 19324 | 11210 |
| 10.210.50.03 | 16205 | 19524 | 11512 |
| 10.210.50.04 | 16205 | 19424 | 12016 |
| 10.210.50.05 | 16205 | 19338 | 11020 |




Characteristics:
Reducing adaptors.
DIN 2080 / DIN 6383 - ISO 4202
For tools with Morse taper shank
and tang according to DIN 228-B.

Eigenschaften:
Reduzierhülsen.
DIN 2080 / DIN 6383 - ISO 4202
Für Werkzeuge mit Morsekegel
und Austreiblappen nach DIN
228-B.



10.215

| Reference Bezeichnung | K ISO | K1 MORSE | L | D |  |
|--------------------------|-------|----------|-----|----|---|
| 10.215.30.01 | 30 | 1 | 50 | 25 | 0,470 |
| 10.215.30.02 | 30 | 2 | 50 | 32 | 0,490 |
| 10.215.30.03 | 30 | 3 | 76 | 40 | 0,720 |
| 10.215.40.01 | 40 | 1 | 50 | 25 | 0,870 |
| 10.215.40.02 | 40 | 2 | 50 | 32 | 0,900 |
| 10.215.40.03 | 40 | 3 | 65 | 40 | 1,050 |
| 10.215.40.04 | 40 | 4 | 95 | 48 | 1,380 |
| 10.215.50.01 | 50 | 1 | 45 | 25 | 2,790 |
| 10.215.50.02 | 50 | 2 | 60 | 32 | 2,890 |
| 10.215.50.03 | 50 | 3 | 65 | 40 | 2,920 |
| 10.215.50.04 | 50 | 4 | 70 | 48 | 2,940 |
| 10.215.50.05 | 50 | 5 | 105 | 63 | 3,370 |

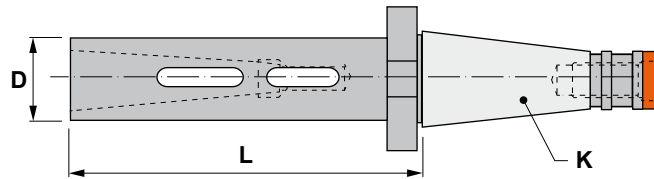


Characteristics:


Long reducing adaptors. DIN 2080 For tools with Morse taper shank and tang according to DIN 228-B.

Eigenschaften:

Lange Reduzierhülsen. DIN 2080 Für Werkzeuge mit Morsekegel und Austreiblappen nach DIN 228-B.



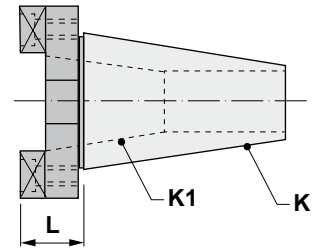
10.216

| Reference Bezeichnung | K ISO | K1 MORSE | L | D |  |
|--------------------------|-------|----------|-----|----|---|
| 10.216.40.02 | 40 | 2 | 110 | 32 | 1,320 |
| 10.216.40.03 | 40 | 3 | 135 | 40 | 1,720 |
| 10.216.40.04 | 40 | 4 | 160 | 48 | 2,240 |
| 10.216.50.02 | 50 | 2 | 115 | 32 | 3,290 |
| 10.216.50.03 | 50 | 3 | 140 | 40 | 3,740 |
| 10.216.50.04 | 50 | 4 | 165 | 48 | 4,270 |
| 10.216.50.05 | 50 | 5 | 215 | 63 | 6,000 |






Characteristics:
Reducing adaptors.
DIN 2080
For tools with DIN 2080 ISO
taper shank.

Eigenschaften:
Reduzierhülsen.
DIN 2080
Für Werkzeuge mit DIN 2080
ISO Kegel.



10.220

| Reference Bezeichnung | K ISO | K1 ISO | L |  |
|--------------------------|-------|--------|----|---|
| 10.220.40.30 | 40 | 30 | 19 | 0,740 |
| 10.220.50.30 | 50 | 30 | 23 | 2,580 |
| 10.220.50.40 | 50 | 40 | 23 | 2,470 |

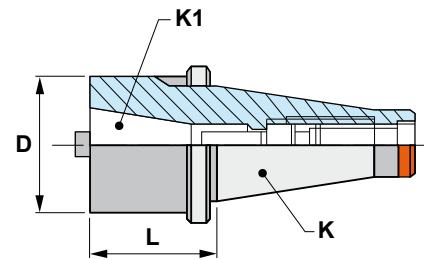
| Reference Bezeichnung | 2x  | 2x  |
|--------------------------|--|--|
| 10.220.40.30 | 80440 | 11006 |
| 10.220.50.30 | 80440 | 11006 |
| 10.220.50.40 | 80440 | 11006 |









Characteristics:
Reducing adaptors.
DIN 2080
For tools with DIN 2080 ISO
taper shank.

Eigenschaften:
Reduzierhülsen.
DIN 2080
Für Werkzeuge mit DIN 2080
ISO Kegel.



10.225

| Reference Bezeichnung | K ISO | K1 ISO | L | D |  |
|--------------------------|-------|--------|----|----|---|
| 10.225.40.30 | 40 | 30 | 50 | 50 | 1,190 |
| 10.225.50.30 | 50 | 30 | 50 | 50 | 3,050 |
| 10.225.50.40 | 50 | 40 | 50 | 63 | 3,140 |

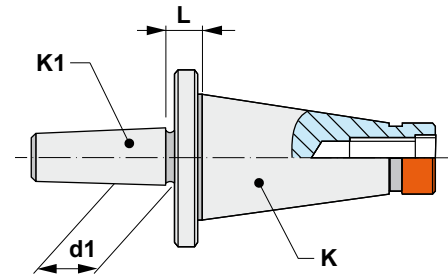
| Reference Bezeichnung |  |  |  |
|--------------------------|---|---|---|
| 10.225.40.30 | 16205 | 19420 | 11312 |
| 10.225.50.30 | 16205 | 19524 | 11512 |
| 10.225.50.40 | 16205 | 19424 | 12016 |

**Characteristics:**


Drill chuck adaptors.
DIN 2080
For drill chucks with DIN 238 taper.

Eigenschaften:

Bohrfutteraufnahmen.
DIN 2080
Für Bohrfutter mit DIN 238 Kegel.



10.290

| Reference Bezeichnung | K ISO | K1 DIN 238 | L | d1 |  Kg |
|--------------------------|-------|------------|----|--------|--|
| 10.290.30.12 | 30 | B-12 | 15 | 12,065 | 0,390 |
| 10.290.30.16 | 30 | B-16 | 15 | 15,733 | 0,380 |
| 10.290.30.18 | 30 | B-18 | 15 | 17,437 | 0,360 |
| 10.290.40.12 | 40 | B-12 | 17 | 12,065 | 0,860 |
| 10.290.40.16 | 40 | B-16 | 17 | 15,733 | 0,880 |
| 10.290.40.18 | 40 | B-18 | 17 | 17,437 | 0,890 |
| 10.290.50.16 | 50 | B-16 | 20 | 15,733 | 2,880 |
| 10.290.50.18 | 50 | B-18 | 20 | 17,437 | 2,920 |

MU

 I199

| Ref. / Bez. | Accessories / Zubehör |
|-------------|---|
| MU | Standard keyless drill chucks DIN 238 Standard Schnellspann-Bohrfutter DIN 238 |



MP

 I200

| Ref. / Bez. | Accessories / Zubehör |
|-------------|--|
| MP | Super precision keyless drill chucks DIN 238 Höchst-Genauigkeit-Selbstspannbohrfutter DIN 238 |



MK

 I201

| Ref. / Bez. | Accessories / Zubehör |
|-------------|--|
| MK | Super precision keyless drill chucks DIN 238 with gripping tongue Höchst-Genauigkeit-Selbstspannbohrfutter DIN 238 mit Schlüsselflächen |



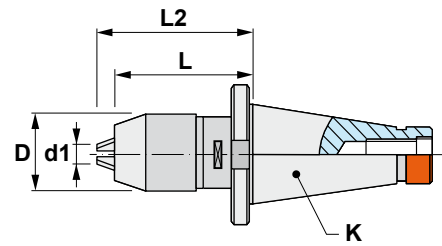


Characteristics:
Self clamping short precision
drill chucks.
DIN 2080
For right turn only.


*** SUPPLIED WITH WRENCH**



Eigenschaften:
Selbstspann-Kurzbohrfutter,
Genauigkeitsausführung.
DIN 2080
Nur für rechtslaufende Bearbeitungen.

*** LIEFERUNG MIT SCHLÜSSEL**



10.295

| Reference Bezeichnung | K ISO | d1 | D | L | L2 max |  |
|--------------------------|-------|-------|----|----|--------|---|
| 10.295.30.08 | 30 | 0,3-8 | 38 | 70 | 76 | 1,000 |
| 10.295.40.08 | 40 | 0,3-8 | 38 | 63 | 69 | 1,400 |
| 10.295.40.13 | 40 | 1-13 | 48 | 78 | 89 | 1,700 |
| 10.295.40.16 | 40 | 3-16 | 55 | 90 | 101 | 2,100 |
| 10.295.50.13 | 50 | 1-13 | 48 | 71 | 101 | 3,600 |
| 10.295.50.16 | 50 | 3-16 | 55 | 72 | 83 | 3,750 |

| Reference Bezeichnung |  |  |
|--------------------------|---|---|
| 10.295.30.08 | 50008 | 11206 |
| 10.295.40.08 | 50008 | 11206 |
| 10.295.40.13 | 50013 | 11108 |
| 10.295.40.16 | 50016 | 11108 |
| 10.295.50.13 | 50013 | 11108 |
| 10.295.50.16 | 50016 | 11108 |

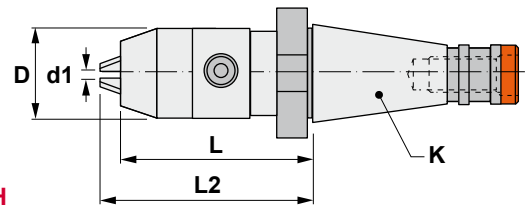


Characteristics:
CNC-Universal precision
drill chucks.
DIN 2080
For left and right hand turn.


*** SUPPLIED WITH WRENCH**



Eigenschaften:
CNC-Universal Bohrfutter,
Genauigkeitausführung.
DIN 2080
Für links- und rechtslaufende
Bearbeitungen.

*** LIEFERUNG MIT SCHLÜSSEL**



10.296

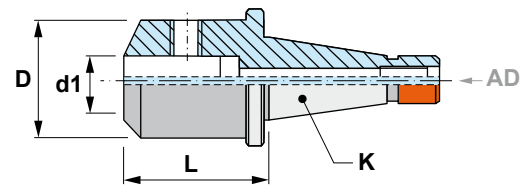
| Reference Bezeichnung | K ISO | d1 | D | L | L2 max |  |
|--------------------------|-------|------|----|----|--------|---|
| 10.296.40.13 | 40 | 1-13 | 54 | 82 | 91 | 1,840 |
| 10.296.40.16 | 40 | 3-16 | 57 | 85 | 92 | 2,000 |
| 10.296.50.13 | 50 | 1-13 | 54 | 85 | 94 | 3,320 |
| 10.296.50.16 | 50 | 3-16 | 57 | 88 | 95 | 3,420 |

| Reference Bezeichnung |  | 3x  |
|--------------------------|---|--|
| 10.296.40.13 | 5006 | 60313 |
| 10.296.40.16 | 5006 | 60313 |
| 10.296.50.13 | 5006 | 60313 |
| 10.296.50.16 | 5006 | 60313 |







Characteristics:
Weldon end mill adaptor.
DIN 2080 / DIN 6359
Form A ISO 5414
For cutters with cylindrical shank and Weldon flat DIN 1835-B.



Eigenschaften:
Zylinderschaft-Aufnahme Weldon.
DIN 2080 / DIN 6359
Form A ISO 5414
Für Fräser mit zylindrischem Schaft und Weldon-Fläche DIN 1835-B.

10.300

| Reference Bezeichnung | K ISO | d1 h4 | L | D |  |  |
|--------------------------|-------|-------|-----|----|---|---|
| 10.300.30.06 | 30 | 6 | 40 | 25 | 15106 | 0,410 |
| 10.300.30.08 | 30 | 8 | 40 | 28 | 15108 | 0,430 |
| 10.300.30.10 | 30 | 10 | 40 | 35 | 15110 | 0,500 |
| 10.300.30.12 | 30 | 12 | 40 | 42 | 15212 | 0,560 |
| 10.300.30.14 | 30 | 14 | 40 | 44 | 15212 | 0,580 |
| 10.300.30.16 | 30 | 16 | 50 | 48 | 15314 | 0,750 |
| 10.300.30.18 | 30 | 18 | 50 | 50 | 15314 | 0,760 |
| 10.300.40.06 | 40 | 6 | 50 | 25 | 15106 | 0,880 |
| 10.300.40.08 | 40 | 8 | 50 | 28 | 15108 | 0,950 |
| 10.300.40.10 | 40 | 10 | 50 | 35 | 15110 | 1,010 |
| 10.300.40.12 | 40 | 12 | 50 | 42 | 15212 | 1,110 |
| 10.300.40.14 | 40 | 14 | 63 | 44 | 15212 | 1,290 |
| 10.300.40.16 | 40 | 16 | 63 | 48 | 15314 | 1,370 |
| 10.300.40.18 | 40 | 18 | 63 | 50 | 15314 | 1,400 |
| 10.300.40.20 | 40 | 20 | 63 | 52 | 15216 | 1,410 |
| 10.300.40.25 | 40 | 25 | 80 | 65 | 2 x 15218 | 2,180 |
| 10.300.40.32 | 40 | 32 | 80 | 72 | 2 x 15220 | 2,550 |
| 10.300.40.40 | 40 | 40 | 102 | 90 | 2 x 15220 | 4,120 |
| 10.300.50.06 | 50 | 6 | 63 | 25 | 15106 | 2,850 |
| 10.300.50.08 | 50 | 8 | 63 | 28 | 15108 | 2,890 |
| 10.300.50.10 | 50 | 10 | 63 | 35 | 15110 | 2,940 |
| 10.300.50.12 | 50 | 12 | 63 | 42 | 15212 | 3,140 |
| 10.300.50.14 | 50 | 14 | 63 | 44 | 15212 | 3,130 |
| 10.300.50.16 | 50 | 16 | 63 | 48 | 15314 | 3,180 |
| 10.300.50.18 | 50 | 18 | 63 | 50 | 15314 | 3,220 |
| 10.300.50.20 | 50 | 20 | 63 | 52 | 15216 | 3,270 |
| 10.300.50.25 | 50 | 25 | 80 | 65 | 2 x 15218 | 3,980 |
| 10.300.50.32 | 50 | 32 | 80 | 72 | 2 x 15220 | 4,210 |
| 10.300.50.40 | 50 | 40 | 90 | 90 | 2 x 15220 | 5,310 |
| 10.300.50.50 | 50 | 50 | 100 | 98 | 2 x 15024 | 6,060 |

42.300

 1182

Ref. / Bez. Accessories / Zubehör

42.300 Short and long reducing bushings DIN 1835-B Form A and B
Kurze und lange Reduzierhülsen DIN 1835-B Form A und B



**Characteristics:**

Short end mill adaptor.

DIN 2080

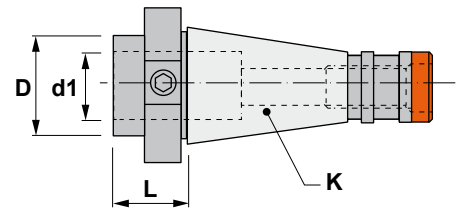
For cutters and tooling with cylindrical shank and Weldon flat DIN 1835-B.

Eigenschaften:



Kurze Aufsteckfräsdorne.

DIN 2080

Für Fräser und Werkzeuge mit zylindrischem Schaft und Weldon-Fläche DIN 1835-B.



10.302

| Reference Bezeichnung | K ISO | d1 h4 | L | D |  |  |
|--------------------------|-------|-------|----|----|---|---|
| 10.302.30.16 | 30 | 16 | 20 | 32 | 15114 | 0,400 |
| 10.302.30.20 | 30 | 20 | 34 | 36 | 15014 | 0,390 |
| 10.302.40.16 | 40 | 16 | 22 | 44 | 15214 | 0,850 |
| 10.302.40.20 | 40 | 20 | 22 | 44 | 15116 | 0,800 |
| 10.302.40.25 | 40 | 25 | 22 | 44 | 15016 | 0,710 |
| 10.302.50.16 | 50 | 16 | 16 | - | 15314 | 2,710 |
| 10.302.50.20 | 50 | 20 | 16 | - | 15216 | 2,640 |
| 10.302.50.25 | 50 | 25 | 16 | - | 15118 + 15218 | 2,540 |
| 10.302.50.32 | 50 | 32 | 16 | - | 15020 + 15120 | 2,330 |

42.610

 I183

| Ref. / Bez. | Accessories / Zubehör |
|-------------|--|
| 42.610 | Tapping head with axial compensation DIN 1835-B Gewindeschneidfutter mit Längenausgleich DIN 1835-B |



42.620

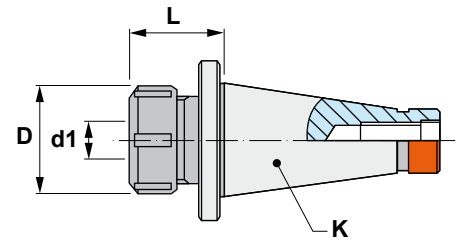
 I184

| Ref. / Bez. | Accessories / Zubehör |
|-------------|--|
| 42.620 | Quick change tapping head with axial compensation DIN 1835-B+E Gewindeschneid-Schnellwechselfutter mit Längenausgleich DIN 1835-B + E |





Characteristics:
Collet chucks for DIN 6388 collets.
DIN 2080
For tools with cylindrical shank
DIN 1835-B.
* Ball bearing nut, see page: I220







*** SUPPLIED WITHOUT WRENCH**

Eigenschaften:
Spannzangenfutter für Spannzangen DIN 6388.
DIN 2080
Für Werkzeuge mit zylindrischem Schaft DIN 1835-B.
* Für Kugellager-Mutter, siehe Seite: I220

*** LIEFERUNG OHNE SCHLÜSSEL**

10.353

| Reference Bezeichnung | K ISO | L | d1 | D |  |  |  |  |
|--------------------------|-------|----|------|----|--|---|---|---|
| 10.353.30.16 | 30 | 43 | 2-16 | 43 | 43316 | 50116 | 19216 | 0,490 |
| 10.353.30.25 | 30 | 70 | 3-25 | 60 | 43325 | 50125 | 19216 | 0,880 |
| 10.353.40.16 | 40 | 50 | 2-16 | 43 | 43316 | 50116 | 19216 | 0,970 |
| 10.353.40.25 | 40 | 63 | 3-25 | 60 | 43325 | 50125 | 19224 | 1,200 |
| 10.353.40.32 | 40 | 90 | 4-32 | 72 | 43332 | 50132 | 19224 | 1,840 |
| 10.353.50.25 | 50 | 63 | 3-25 | 60 | 43325 | 50125 | 19224 | 2,660 |
| 10.353.50.32 | 50 | 70 | 4-32 | 72 | 43332 | 50132 | 19230 | 3,330 |

BXX

 I206-208

| Ref. / Bez. | Accessories / Zubehör |
|-------------|---|
| BXX | Collets with double slot DIN 6388 - Form B Spannzangen mit Doppelnut DIN 6388 - Form B |



**Characteristics:**

Collet chucks for DIN 6499 (ER) collets.
DIN 2080
For tools with cylindrical shank.

* Ball bearing nut, see page: I221

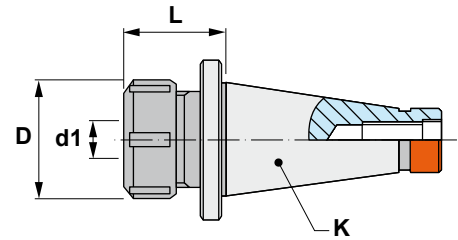
*** SUPPLIED WITHOUT WRENCH**

Eigenschaften:






Spannzangenfutter für Spannzangen
DIN 6499 (ER).
DIN 2080
Für Werkzeuge mit zylindrischem Schaft.

* Für Kugellager-Mutter, siehe Seite: I221


*** LIEFERUNG OHNE SCHLÜSSEL**



10.453

| Reference Bezeichnung | K ISO |  | L | d1 | D | D1 |  |  |  |  |
|--------------------------|-------|---|-----|--------|----|----|---|---|---|---|
| 10.453.30.16 | 30 | ER16 | 35 | 0,5-10 | 32 | - | 45316 | 50216 | 19210 | 0,329 |
| 10.453.30.20 | 30 | ER20 | 38 | 1-13 | 35 | - | 45320 | 50220 | 19212 | 0,324 |
| 10.453.30.25 | 30 | ER25 | 42 | 1-16 | 42 | - | 45325 | 50225 | 19216 | 0,480 |
| 10.453.30.32 | 30 | ER32 | 50 | 2-20 | 50 | - | 45332 | 50232 | 19218 | 0,520 |
| 10.453.40.25 | 40 | ER25 | 44 | 1-16 | 42 | - | 45325 | 50225 | 19216 | 0,920 |
| 10.453.40.32 | 40 | ER32 | 48 | 2-20 | 50 | - | 45332 | 50232 | 19218 | 0,950 |
| 10.453.40.32/070 | 40 | ER32 | 70 | 2-20 | 50 | - | 45332 | 50232 | 19218 | 1,140 |
| 10.453.40.32/100 | 40 | ER32 | 100 | 2-20 | 50 | 50 | 45332 | 50232 | 19218 | 1,506 |
| 10.453.40.32/150 | 40 | ER32 | 150 | 2-20 | 50 | 50 | 45332 | 50232 | 19218 | 2,050 |
| 10.453.40.40 | 40 | ER40 | 51 | 3-30 | 63 | - | 45340 | 50240 | 19224 | 1,070 |
| 10.453.40.40/100 | 40 | ER40 | 100 | 3-30 | 63 | 63 | 45340 | 50240 | 19224 | 1,400 |
| 10.453.50.25 | 50 | ER25 | 46 | 1-16 | 42 | - | 45325 | 50225 | 19216 | 2,870 |
| 10.453.50.25/150 | 50 | ER25 | 150 | 1-16 | 42 | 42 | 45325 | 50225 | 19216 | 3,600 |
| 10.453.50.32 | 50 | ER32 | 60 | 2-20 | 50 | - | 45332 | 50232 | 19218 | 2,960 |
| 10.453.50.32/100 | 50 | ER32 | 100 | 2-20 | 50 | 50 | 45332 | 50232 | 19218 | 3,080 |
| 10.453.50.32/150 | 50 | ER32 | 150 | 2-20 | 50 | 50 | 45332 | 50232 | 19218 | 3,920 |
| 10.453.50.40 | 50 | ER40 | 60 | 3-30 | 63 | - | 45340 | 50240 | 19224 | 3,120 |
| 10.453.50.40/150 | 50 | ER40 | 150 | 3-30 | 63 | 63 | 45340 | 50240 | 19224 | 4,530 |
| 10.453.50.50 | 50 | ER50 | 65 | 6-34 | 78 | - | 45350 | 50250 | 19230 | 3,270 |

ERXX

 I210-212

Reference / Bezeichnung

ERXX

**40.453..**

 I180

Reference / Bezeichnung

40.453..

**ERCXX**

 I215-216

Reference / Bezeichnung

ERCXX

**40.455..**

 I181

Reference / Bezeichnung

40.455..

**ERTXX**

 I217-218

Reference / Bezeichnung

ERTXX





Characteristics:
Mechanical collet chucks with high tightening torque and precision.
DIN 2080
For DIN 6499 (ER) collets.

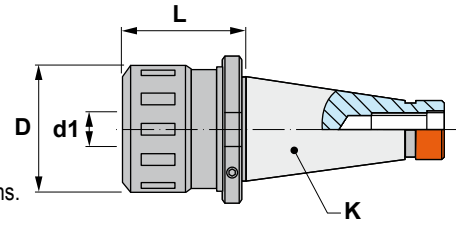
The alternative to hydraulic or other systems.
With central coolant supply.

*** SUPPLIED WITH WRENCH**

Eigenschaften:
Mechanisches Spannzangenfutter mit hohem Anzugsmoment.
DIN 2080.
Für Spannzangen DIN 6499 (ER).

Die Alternative zu hydraulischen und anderen Systemen.
Mit Innenkühlung.

*** LIEFERUNG MIT SCHLÜSSEL**



10.457

| Reference Bezeichnung | K ISO |  | L | d1 | D |  |  |  |  |
|--------------------------|-------|---|----|------|----|--|---|---|---|
| 10.457.40.32 | 40 | ER32 | 80 | 2-20 | 54 | 45732 | 50704 | 19006 | 1,620 |
| 10.457.50.32 | 50 | ER32 | 85 | 2-20 | 54 | 45732 | 50704 | 19006 | 3,630 |
| 10.457.50.40 | 50 | ER40 | 97 | 3-30 | 65 | 45740 | 50706 | 19010 | 4,570 |

ERXX

 I210-212

Ref. / Bez. Accessories / Zubehör

ERXX Collets with double slot DIN 6499 - Form B (ER)
Spannzangen mit Doppelnut DIN 6499 - Form B (ER)



ERCXX

 I215-216

Ref. / Bez. Accessories / Zubehör

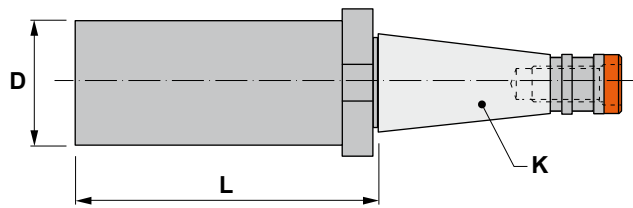
ERCXX Sealed collets DIN 6499 (ER)
Abgedichtete Spannzangen DIN 6499 (ER)






Characteristics:
Blank adaptors.

Eigenschaften:
Rohlinge mit
weichem Schaft.



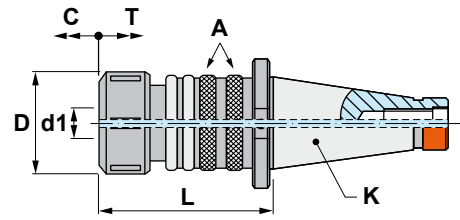
10.470

| Reference Bezeichnung | K ISO | D | L |  Kg |
|--------------------------|-------|------|-----|--|
| 10.470.30.40 | 30 | 40,5 | 160 | 1,920 |
| 10.470.40.63/250 | 40 | 63,5 | 250 | 6,760 |
| 10.470.50.95/315 | 50 | 95,5 | 315 | 18,470 |



Characteristics:

Tapping head with axial compensation.
DIN 2080
With DIN 6499 (ER) collets and central coolant supply.
Compensation in compression (C) and tension (T).
Compression can be blocked by turning the rear ring (A).
Control of threading depth.



*** SUPPLIED WITH WRENCH**

Eigenschaften:

Gewindeschneidfutter mit Längenausgleich DIN 2080.
Befestigung mit Spannzangen 6499 (ER) und mit Innenkühlung.
Ausgleich der Kompression (C) und der Traktion (T).
Die Kompression kann mit dem Ring (A) blockiert werden.
Kontrolle der Gewindetiefe.

*** LIEFERUNG MIT SCHLÜSSEL**

10.610

| Reference Bezeichnung | K ISO | | | d1 | L | D | C | T | | | |
|--------------------------|-------|------|--------|-------|----|------|------|-------|-------|-------|--|
| 10.610.30.16 | 30 | ER16 | M3-M12 | 100,5 | 28 | 5,5 | 6,0 | 45316 | 50216 | 0,900 | |
| 10.610.40.16 | 40 | ER16 | M3-M12 | 88,5 | 28 | 5,5 | 6,0 | 45316 | 50216 | 1,300 | |
| 10.610.40.25 | 40 | ER25 | M4-M20 | 112,0 | 42 | 10,5 | 7,5 | 45325 | 50225 | 1,850 | |
| 10.610.40.40 | 40 | ER40 | M8-M33 | 128,0 | 63 | 10,0 | 10,0 | 45340 | 50240 | 3,050 | |
| 10.610.50.16 | 50 | ER16 | M3-M12 | 82,5 | 28 | 5,5 | 6,0 | 45316 | 50216 | 3,100 | |
| 10.610.50.25 | 50 | ER25 | M4-M20 | 106,0 | 42 | 10,5 | 7,5 | 45325 | 50225 | 3,650 | |
| 10.610.50.40 | 50 | ER40 | M8-M33 | 122,0 | 63 | 10,0 | 10,0 | 45340 | 50240 | 4,850 | |

ERXX

I210-212

Ref. / Bez. Accessories / Zubehör

ERXX Collets with double slot DIN 6499 - Form B (ER)
Spannzangen mit Doppelnut DIN 6499 - Form B (ER)



ERCXX

I215-216

Ref. / Bez. Accessories / Zubehör

ERCXX Sealed collets DIN 6499 (ER)
Abgedichtete Spannzangen DIN 6499 (ER)



ERTXX

I217-218

Ref. / Bez. Accessories / Zubehör

ERTXX Collets DIN 6499 - Form Mexin (ER)
Spannzangen DIN 6499 - Form Mexin (ER)



40.453..

I180

Ref. / Bez. Accessories / Zubehör

40.453.. Collet chucks for DIN 6499 (ER) collets
Spannzangenfutter für DIN 6499 (ER) Spannzangen



40.455..

I181

Ref. / Bez. Accessories / Zubehör

40.455.. Long collet chucks for DIN 6499 (ER) collets
Lange Spannzangenfutter für DIN 6499 (ER) Spannzangen



**Characteristics:**

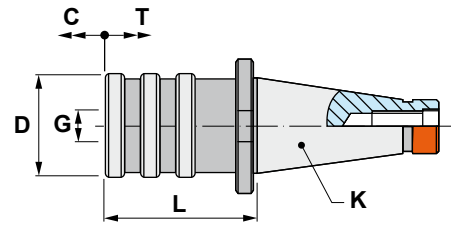
Quick change tapping head with axial compensation. DIN 2080
With Bilz system tap chucks bushings.

Compensation in compression (C) and tension (T).




Eigenschaften:

Gewindeschneid-Schnellwechselfutter mit Längenausgleich. DIN 2080
Mit Schnellwechseleinsätzen Bilz-System.

Ausgleich der Kompression (C) und der Traktion (T).



10.620

| Reference Bezeichnung | K ISO | N ^G . Ø | d1 | L | D | C | T |  |  |  |
|--------------------------|-------|--------------------|---------|-----|----|----|----|---|---|---|
| 10.620.30.12 | 30 | 1 19 | M3-M12 | 41 | 38 | 9 | 9 | 710XX | 750XX | 0,580 |
| 10.620.40.12 | 40 | 1 19 | M3-M12 | 52 | 38 | 9 | 9 | 710XX | 750XX | 1,070 |
| 10.620.40.20 | 40 | 2 31 | M8-M20 | 77 | 55 | 15 | 15 | 720XX | 760XX | 1,460 |
| 10.620.40.33 | 40 | 3 48 | M14-M33 | 97 | 79 | 24 | 24 | 730XX | 770XX | 3,500 |
| 10.620.50.12 | 50 | 1 19 | M3-M12 | 41 | 38 | 9 | 9 | 710XX | 750XX | 4,600 |
| 10.620.50.20 | 50 | 2 31 | M8-M20 | 79 | 55 | 15 | 15 | 720XX | 760XX | 4,600 |
| 10.620.50.33 | 50 | 3 48 | M14-M33 | 125 | 79 | 24 | 24 | 730XX | 770XX | 5,090 |

710XX..730XX

 I202

Ref. / Bez.

Accessories / Zubehör

710XX..730XX

Quick change adapters without overload clutch
Schnellwechseleinsätze ohne Sicherheitskupplung



750XX..770XX

 I203

Ref. / Bez.

Accessories / Zubehör

750XX..770XX

Quick change adapters with overload clutch
Schnellwechseleinsätze mit Sicherheitskupplung



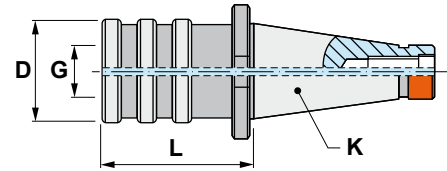


Characteristics:
Quick change tapping head for rigid tapping.
With Bilz system tap chucks bushings.

With inner coolant.

Eigenschaften:
Gewindeschneid-Schnellwechselfutter ohne Längenausgleich.
Mit Schnellwechseleinsätzen Bilz-System.

Mit Innenkühlung.



10.630

| Reference Bezeichnung | K ISO | N ^G N° Ø | | L | D | | | |
|--------------------------|-------|------------------------|---------|-----|----|-------|-------|-------|
| 10.630.30.12 | 30 | 1 19 | M3-M12 | 50 | 33 | 710XX | 750XX | 1,000 |
| 10.630.40.12 | 40 | 1 19 | M3-M12 | 52 | 33 | 710XX | 750XX | 1,000 |
| 10.630.40.20 | 40 | 2 31 | M8-M20 | 74 | 50 | 720XX | 760XX | 1,500 |
| 10.630.40.33 | 40 | 3 48 | M14-M33 | 115 | 72 | 730XX | 770XX | 3,500 |
| 10.630.50.12 | 50 | 1 19 | M3-M12 | 55 | 33 | 710XX | 750XX | 4,600 |
| 10.630.50.20 | 50 | 2 31 | M8-M20 | 78 | 50 | 720XX | 760XX | 4,600 |
| 10.630.50.33 | 50 | 3 48 | M14-M33 | 83 | 72 | 730XX | 770XX | 5,500 |

710XX..730XX

i I202

Ref. / Bez.

Accessories / Zubehör

710XX..730XX

Quick change adapters without overload clutch
Schnellwechseleinsätze ohne Sicherheitskupplung



750XX..770XX

i I203

Ref. / Bez.

Accessories / Zubehör

750XX..770XX

Quick change adapters with overload clutch
Schnellwechseleinsätze mit Sicherheitskupplung



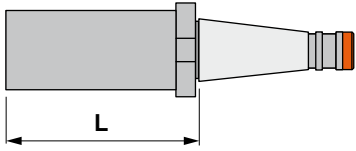
1 TYPE / TYP

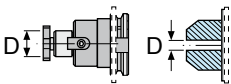
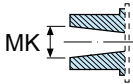
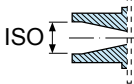
| | | | | |
|--------|--------|--------|--------|--------|
| 10.160 | 10.165 | 10.180 | 10.210 | 10.215 |
| 10.216 | 10.220 | 10.225 | 10.290 | 10.295 |
| 10.296 | 10.300 | 10.302 | 10.353 | 10.453 |
| 10.457 | 10.470 | 10.610 | 10.620 | 10.630 |

2 DIMENSION / ABMESSUNGEN

| | | | |
|-----------|-----------|-----------|-----------|
| 30 | 40 | 50 | 60 |
|-----------|-----------|-----------|-----------|

3 LENGTH / LÄNGE (L)

| | |
|---|-------------------------------|
|  | <hr/> <hr/> <hr/> <hr/> <hr/> |
|---|-------------------------------|

| | | | |
|---|---|---|-------------------------------|
| <p>Ø DIAMETER / DURCHMESSER</p>  | <p>MK</p>  | <p>ISO</p>  | <p>COLLET SPANNZANGEN</p> |
| | | | |

NOTES / BEMERKUNGEN: _____



