

New products for machining technicians

NEW Hydraulic chuck



The latest hydro-expansion technology with a newly developed, improved hydro-expansion bush, complements the existing standard portfolio.

NEW VDI holders with DirectCooling



The VDI holder with DirectCooling is incredibly versatile owing to its 4-in-1 functionality. Thanks to its double tooth profile, only one holder is needed. The clamping rails can be attached at the top or bottom, as an optional extra.

NEW Shell mill adapter



These shell mill adapters, which were developed specially for the MaxiMill 211-KN porcupine cutters, are being added to our product range. Now the porcupine cutters can be securely clamped thanks to the adapted flange diameters.

NEW Torsional vibration dampers with ABS connection



The popular and very useful torsional vibration damper with ABS connection has been supplemented with the PSC interface. This extension is complementing our complete range and we can now also clamp without an adapter directly on machines with the PSC interface.

NEW BMT holders with DirectCooling



We have expanded our portfolio to include various BMT systems with DirectCooling.



Solid drilling and bore machining

- 1 HSS drilling
- 2 Solid carbide drilling
- 3 Indexable insert drilling
- 4 Reaming and Countersinking
- 5 Spindle Tooling

Threading

- 6 Taps and thread formers
- 7 Circular and Thread Milling
- 8 Thread turning

Turning

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- 12 Miniature turning tools

Milling

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WNT \ Performance

Premium quality tools for high performance.

The premium quality tools from the **WNT Performance** product line have been designed for specific applications and are distinguished by their outstanding performance. If you make high demands on the performance of your production and want to achieve the very best results, we recommend the Premium tools in this product line.

WNT \ Standard

Quality tools for standard applications.

The quality tools of the **WNT Standard** product line are high quality, powerful and reliable and enjoy the highest trust of our customers worldwide. Tools from this product line are the first choice for many standard applications and guarantee optimal results.

Symbol explanation

Coolant supply version



without coolant supply (Form A)



Coolant supply central
Steep taper Form AD



Coolant supply either via the flange, or central (Form AD/B)



with eroded cooling ducts



Coolant supply centrally or via the collar
with eroded cooling channels



Adapter with two additional coolant holes



Coolant supply centrally or via the collar
also additional coolant holes



Central coolant supply or via a coolant nozzle



specially matched adapter for ThermoGrip® shrinking process



Collet description

- ▲ Type version
- ▲ Radial run-out accuracy

Toolfinder – Machine interface

ISO 7388-1 – SK steep taper holders

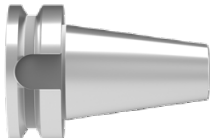


- ▲ SK 30
- ▲ SK 40
- ▲ SK 50
- ▲ SK-FC 50

| | | |
|---|---------------------------------|-------|
| ▶ | Toolfinder – Adapters, rotating | 6+7 |
| | Product programme | 14–59 |

ISO 7388-2 – MAS-BT taper shank

MAS-BT / MAS-BT-FC with face contact



- ▲ BT 30
- ▲ BT 40
- ▲ BT 50
- ▲ BT-FC 30
- ▲ BT-FC 40
- ▲ BT-FC 50

| | | |
|---|---------------------------------|-----------------|
| ▶ | Toolfinder – Adapters, rotating | 6+7 |
| | MAS-BT product range | 60–98 / 108+109 |
| | MAS-BT-FC product range | 99–107 |

HSK hollow taper adapters with face contact

ISO 12164 – HSK-A / HSK-E



- ▲ HSK-A 40
- ▲ HSK-A 50
- ▲ HSK-A 63
- ▲ HSK-A 100
- ▲ HSK-E 25
- ▲ HSK-E 32
- ▲ HSK-E 40
- ▲ HSK-E 50

| | | |
|---|---------------------------------|---------------|
| ▶ | Toolfinder – Adapters, rotating | 6+7 |
| | HSK-A product range | 110–148 / 152 |
| | HSK-E product range | 149–151 |

ISO 12164-3 – HSK-T

- ▲ HSK-T 63
- ▲ HSK-T 100

| | | |
|---|-----------------------------------|---------|
| ▶ | Toolfinder – Adapters, stationary | 8+9 |
| | Product programme | 189–191 |

ISO 26623-1 – PSC polygon hollow adapters with face contact

PSC, rotating



- ▲ PSC 32
- ▲ PSC 40
- ▲ PSC 50
- ▲ PSC 63
- ▲ PSC 80

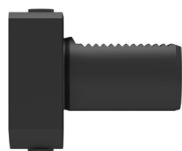
| | | |
|---|---------------------------------|---------|
| ▶ | Toolfinder – Adapters, rotating | 6+7 |
| | Product programme | 153–172 |

PSC, stationary

- ▲ PSC 32
- ▲ PSC 40
- ▲ PSC 50
- ▲ PSC 63
- ▲ PSC 80
- ▲ PSC 80X

| | | |
|---|-----------------------------------|---------|
| ▶ | Toolfinder – Adapters, stationary | 8+9 |
| | Product programme | 192–198 |

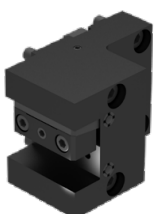
ISO 10889 – VDI tool holders with cylindrical shank



- ▲ VDI 16
- ▲ VDI 20
- ▲ VDI 25
- ▲ VDI 30
- ▲ VDI 40
- ▲ VDI 50

| | | |
|---|-----------------------------------|---------|
| ▶ | Toolfinder – Adapters, stationary | 10+11 |
| | Product programme | 199–220 |
| | Driven Tools | 297+298 |

BMT tool holders



- ▲ Doosan/Spinner – BMT 45
- ▲ Doosan – BMT 55
- ▲ EMAG – BMT 55
- ▲ HAAS/Doosan – BMT 65
- ▲ Mori/Seiki – BMT 40
- ▲ Mori/Seiki – BMT 60
- ▲ Mazak – BMT 68

| | | |
|---|---|---------|
| ▶ | Toolfinder – Adapters, stationary – BMT tool holders | 12 |
| | Product programme | 221–234 |

Toolfinder – Adaptors, rotating

| Holder Type | ISO 7388-1 | | ISO 7388-2 | | ISO 12164 | | ISO 26623-1 | ABS | Morse taper | Cylindrical shank |
|---------------------------------------|------------|-------|--|-----------|-----------|---------|-------------|---------|-------------|-------------------|
| | SK | SK-FC | MAS-BT | MAS-BT-FC | HSK-A | HSK-E | PSC | | | |
| Accuracy | | | | | | | | | | |
| Maximum | | | | | | | | | | |
| ER Precision Collet chuck | | | | | | | | | | |
| ▲ Centro-P | | | 14-16 | 60-62 | 99 | 110-112 | 149+150 | 153 | | 246 |
| ▲ HDC | | | 17 | 63 | 100 | 113 | | | | |
| High Pressure Milling Chuck | | | | | | | | | | |
| | | | 18-20 | 64-66 | 102 | 114-116 | | 154 | | |
| Hydraulic chuck | | | | | | | | | | |
| | | | 21+22 | 67+68 | 103 | 117+118 | | 173 | | 242+243 |
| Heat Shrink Adapter | | | | | | | | | | |
| | | | 23-28 | 69-73 | 101 | 119-126 | 151 | 155-157 | 174 | 241 |
| Micro-Precision Collet Chuck | | | | | | | | | | |
| | | | | | | | | | | 244 |
| High | | | | | | | | | | |
| Cylindrical shank adapter | | | | | | | | | | |
| ▲ Weldon | | | 29-31 | 74+75 | 104 | 127+128 | | 158 | 175 | 245 |
| ▲ Whistle Notch | | | 32+33 | 76+77 | | 129 | | 159 | 176+177 | |
| Indexable insert drill adapter | | | | | | | | | | |
| | | | 34 | 78 | | 130 | | 160 | | |
| Collet Chuck | | | | | | | | | | |
| ▲ Precision Collet chuck – PCC | | | 35 | 79 | | 131 | | | | |
| ▲ ER Collet chuck | | | 36+37 | 80 | 105 | 132+133 | | 161+162 | 178 | 247+248 |
| Short drill chuck | | | | | | | | | | |
| | | | 38 | 81 | | 134 | | 163 | 179 | 237 |
| Quick change tapping chuck | | | | | | | | | | |
| ▲ With minimum length compensation | | | 39+40 | 82+83 | | 135 | | 164 | 180 | 238 |
| ▲ with length compensation | | | 41 | 84 | | 136 | | 165 | 179 | 239 |
| ABS adapters | | | | | | | | | | |
| | | | 42+43 | 44 | 85-87 | 106 | 137+138 | 166+167 | 183-187 | |
| Compensation holder DAH | | | | | | | | | | |
| | | | The DAH length compensation chucks are available in our online shop. Technical information on the products can be found on page 308 . | | | | | | | |

Main Application
Extended application



Finishing





















Roughing - Finishing



Roughing

Toolfinder – Adaptors, rotating

| Holder Type | ISO 7388-1 | | ISO 7388-2 | | ISO 12164 | | ISO 26623-1 | ABS | Morse taper | Cylindrical shank |
|---|---|---|------------|-----------|-----------|---------|-------------|-----|-------------|-------------------|
| | SK | SK-FC | MAS-BT | MAS-BT-FC | HSK-A | HSK-E | PSC | | | |
| Accuracy Medium | | | | | | | | | | |
| Adapter for milling cutters with threaded end |  |  | 45+46 | 88 | | 139+140 | 168 | | | 249+250 |
| Face mill adapter | | | | | | | | | | |
| ▲ Combination shell mill adapter |  |  | 47 | 89 | | 141 | | 182 | | |
| ▲ Shell mill adapter |  |  | 48-50 | 90-92 | 107 | 142-144 | 169 | 181 | | |
| ▲ Large diameter facemill adapter |  |  | 51 | 93 | | | | | | |
| Drill chuck adapter |  |  | | | | | | | 236 | |
| Taper adapter for Morse taper |  |  | 52 | 94 | | 145 | 170 | | 236 | |
| Adapter | | | | | | | | | | |
| ▲ SK |  | | 53 | | | | | | | |
| ▲ MAS-BT |  | | | 95 | | | | | | |
| ▲ HSK-A |  | | 54 | 96 | | 146 | | | | |
| ▲ PSC |  | | 55 | 97 | | 147 | 196+197 | | | |
| Blank |  | | 56 | 98 | | 148 | 171 | 188 | | |
| Test bar |  | | 56 | 98 | | 148 | 172 | | | |

Main Application
Extended application



Finishing







Roughing - Finishing




Roughing


Toolfinder – Stationary adaptors – HSK-T and PSC tool holders





Toolholders for negative turning inserts


| | Type | Article no. | Illustration |
|---|---------------------------------|-----------------|---|
| | Machining | | |
|  | DCLN 95° Internal + External | 74 503 + 74 504 |  |
| | DCMN 95° External | 74 506 |  |
| | DCMN+ DDMN External | 74 600 |  |


 All tool holders for negative rotary indexable inserts CN.. can be found in → **Section 9, Turning Tools**

| | | | |
|---|---------------------------------------|-----------------|---|
|  | DCMN+ DDMN External | 74 600 |  |
| | DDUN 93° Internal + External | 74 515 + 74 516 |  |
| | DDJN 93° Internal + External | 74 511 + 74 512 |  |
| | DDHN 107,5° Internal + External | 74 507 + 74 508 |  |
| | DDMN 48° External | 74 519 |  |




 All tool holders for negative rotary indexable inserts DN.. can be found in → **Section 9, Turning Tools**


| | | | |
|---|------------------------------------|-----------------|---|
|  | DSDN 45° External | 74 522 |  |
| | DVMN 50° External | 74 525 |  |
| | DWLN 95° Internal + External | 74 528 + 74 529 |  |





 All tool holders for negative rotary indexable inserts SN.., VN.. and WN.. can be found in → **Section 9, Turning Tools**


 You can find more information on the multifunction tool EcoCut in → **Section 10, Multifunctional Tools – EcoCut and FreeTurn**


Toolholders for positive turning inserts


| | Type | Article no. | Illustration |
|---|---------------------------------|-----------------|---|
| | Machining | | |
|  | SCLC 95° Internal + External | 74 540 + 74 541 |  |
| | SCMC 50° External | 74 542 |  |






 All tool holders for positive rotary indexable inserts CC.. can be found in → **Section 9, Turning Tools**


| | | | |
|---|-----------------------------------|-----------------|---|
|  | SDJC 93° Internal + External | 74 543 + 74 544 |  |
| | SDNC 62,5° Internal + External | 74 677 |  |
| | SDMC 48° External | 74 546 |  |

 All tool holders for positive rotary indexable inserts DC.. can be found in → **Section 9, Turning Tools**

| | | | |
|---|-----------------------------|-----------------|---|
|  | PRDC 0° External | 74 548 |  |
| | PRSC Internal + External | 74 551 + 74 552 |  |

 All tool holders for positive rotary indexable inserts RC.. can be found in → **Section 9, Turning Tools**

| | | | |
|---|---------------------------------------|-----------------|---|
|  | SVUC 93° Internal + External | 74 557 + 74 558 |  |
| | SVJC 93° Internal + External | 74 555 + 74 556 |  |
| | SVHC 107,5° Internal + External | 74 553 + 74 554 |  |
| | SVMC 50° External | 74 560 |  |

 All tool holders for positive rotary indexable inserts VC.. can be found in → **Section 9, Turning Tools**



Toolfinder – Stationary adapters – HSK-T and PSC tool holders

Holders for grooving and threading inserts

| Type | Article no. | Illustration |
|------|-----------------|--------------|
| 0° | 74 580 + 74 581 | |

All tool holders for grooving and threading inserts can be found in → **Section 11, Grooving tools**

Toolholders for threading inserts

| Type | Article no. | Illustration |
|-----------------|-----------------|--------------|
| Internal thread | 84 196 + 84 197 | |
| External thread | 84 190 + 84 191 | |

All tool holders for threading inserts can be found in → **Section 8, Thread turning**

Boring bars for negative inserts

| Type | Article no. | Illustration |
|------------------|-----------------|--------------|
| CN.. DCLN 95° | 74 528 + 74 529 | |
| DN.. DDUN 93° | 74 532 + 74 533 | |
| WN.. DWLN 95° | 74 536 + 74 537 | |

All boring bars for negative indexable inserts can be found in → **Section 9, Turning Tools**

Boring bars for positive inserts

| Type | Article no. | Illustration |
|------------------|-----------------|-----------------|
| CC.. SCLC 95° | 74 563 + 74 564 | |
| DC.. SDUC 93° | 74 565 + 74 566 | |
| VC.. SVUC 93° | 74 567 + 74 568 | |
| | SVQC 107,5° | 70 748 + 70 749 |

All boring bars for positive indexable inserts can be found in → **Section 9, Turning Tools**

Basic holder

| Type | Illustration | HSK-T ISO 12164 | PSC ISO 26623 |
|-------------------------------|--------------|-----------------|---------------|
| Square shank holder 0° | | 190+191 | 192 |
| Square shank holder 45° | | 190+191 | 193 |
| Square shank holder 90° | | 190+191 | 192 |
| Square shank holder 2 face 0° | | | 193 |
| Square shank holder 3 face 0° | | 191 | 193 |
| Boring bar holder | | 191 | 194 |

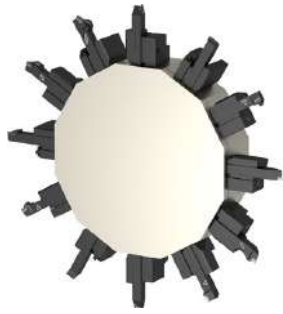
Parting blade holders

| Type | Illustration | HSK-T ISO 12164 | PSC ISO 26623 |
|--------------------------|--------------|-----------------|---------------|
| Parting blade holder 0° | | 189 | |
| Parting blade holder 90° | | 189 | 192 |

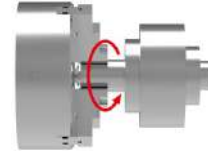
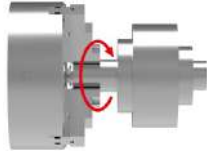
Accessories





| | | |
|------------------|--|-----|
| Protection plug | | 198 |
| Hollow nose keys | | 198 |





Toolfinder – Stationary adapters – VDI adapters for star turrets







Toolholders above







| Upper turret | Spindle rotation clockwise | Spindle rotation counter clockwise |
|--|---|---|
|  Square Shank Adapters / DirectCooling | B2/B3/B6/B7/C1/C2/D1/D2 199–201 203–206 | B2/B3/B6/B7/C3/C4/D1/D2 199–201 203–206 |
|  Parting blade holders / DirectCooling | double 202 210+211 | double – overhead 202 210+211 |
|  Adapter VDI to VDI | Left-hand 216 | Left-hand 216 |
|  Boring bar holder | Left-hand 216 | Left-hand 216 |

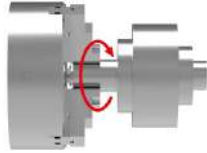
| Lower turret | Spindle rotation clockwise | Spindle rotation counter clockwise |
|--|---|---|
|  Square Shank Adapters / DirectCooling | B2/B3/B6/B7/C3/C4/D1/D2 199–201 203–206 | B2/B3/B6/B7/C1/C2/D1/D2 199–201 203–206 |
|  Parting blade holders / DirectCooling | double – overhead 202 210+211 | double 202 210+211 |
|  Adapter VDI to VDI | Right-hand 216 | Right-hand 216 |
|  Boring bar holder | Right-hand 216 | Right-hand 216 |



Toolholders below



| Upper turret | Spindle rotation clockwise | Spindle rotation counter clockwise |
|--|---|---|
|  Square Shank Adapters / DirectCooling | B2/B3/B6/B7/C3/C4/D1/D2 199–201 203–206 | B2/B3/B6/B7/C1/C2/D1/D2 199–201 203–206 |
|  Parting blade holders / DirectCooling | double 202 210+211 | double – overhead 202 210+211 |
|  Adapter VDI to VDI | Right-hand 216 | Right-hand 216 |
|  Boring bar holder | Right-hand 216 | Right-hand 216 |










| Lower turret | Spindle rotation clockwise | Spindle rotation counter clockwise |
|--|---|---|
|  Square Shank Adapters / DirectCooling | B2/B3/B6/B7/C1/C2/D1/D2 199–201 203–206 | B2/B3/B6/B7/C3/C4/D1/D2 199–201 203–206 |
|  Parting blade holders / DirectCooling | double – overhead 202 210+211 | double 202 210+211 |
|  Adapter VDI to VDI | Left-hand 216 | Left-hand 216 |
|  Boring bar holder | Left-hand 216 | Left-hand 216 |






Toolfinder – Stationary adapters – VDI adapters for disc turrets


















































| Upper turret | Spindle rotation clockwise | Spindle rotation counter clockwise |
|--|--------------------------------------|--------------------------------------|
|  Square Shank Adapters / DirectCooling | B1/B5/C1/C2/D1 199–201 203–206 | B3/B7/C3/C4/D2 199–201 203–206 |
|  Part Off Holder | Right-hand 202 210+211 | Overhead right 202 210+211 |

| Lower turret | Spindle rotation clockwise | Spindle rotation counter clockwise |
|--|--------------------------------------|--------------------------------------|
|  Square Shank Adapters / DirectCooling | B4/B8/C3/C4/D2 199–201 203–206 | B2/B6/C1/C2/D1 199–201 203–206 |
|  Part Off Holder | Overhead left 202 210+211 | Left-hand 202 210+211 |























| General VDI adapters | | |
|--|--|---------|
|  Cylindrical Shank Adapters | E/E1/E2/E3/E4 | 206–208 |
|  Taper Adapters | F1 | 209 |
|  Short drill chuck | NC 2010 | 212 |
|  ER Collet chuck | | 209 |
|  Hydraulic chuck | | 213 |
|  VDI to PSC adapter | | 217 |
|  VDI to HSK-T adapter | | 218 |
|  VDI adapter with ABS-N connection | This article can be found in our online shop at cuttingtools.ceratizit.com  | |

| Accessories | | |
|--|--|-----|
|  Test arbors | | 214 |
|  Tool holders | | 214 |
|  Bar pullers | | 219 |
|  Gripper accessories | | 220 |
|  Protection plug | | 220 |

Toolfinder – Adaptors, stationary – BMT tool holders

| Doosan/Spinner – BMT 45 | | | | Mori/Seiki – BMT 40 | | | | | |
|---|----------------------------------|--------------------|---|---------------------|---|----------------------------------|--------------------|---|-----|
|  | Axial square section tool holder | Left-hand |  | 221 |  | Axial square section tool holder | Left-hand |  | 229 |
|  | Square section adapter | Left-hand |  | 221 |  | Square section adapter | Left-hand |  | 229 |
|  | Square multiple tool holder | |  | 222 |  | Square multiple tool holder | |  | 230 |
|  | Combi tool holder | with thro' coolant | | 222 |  | Combi tool holder | with thro' coolant | | 230 |
| Doosan – BMT 55 | | | | Mori/Seiki – BMT 60 | | | | | |
|  | Axial square section tool holder | Left-hand |  | 223 |  | Axial square section tool holder | Left-hand |  | 231 |
|  | Square section adapter | Left-hand |  | 223 |  | Square section adapter | Left-hand |  | 231 |
|  | Square multiple tool holder | |  | 224 |  | Square multiple tool holder | |  | 232 |
|  | Boring bar holder | with thro' coolant | | 224 |  | Combi tool holder | with thro' coolant | | 232 |
| EMAG – BMT 55 | | | | Mazak – BMT 68 | | | | | |
|  | Axial square section tool holder | Left-hand |  | 225 |  | Axial square section tool holder | Left-hand |  | 233 |
|  | Square section adapter | Left-hand |  | 225 |  | Square section adapter | Left-hand |  | 233 |
|  | Boring bar holder | with thro' coolant | | 226 |  | Square multiple tool holder | |  | 234 |
|  | Combi tool holder | with thro' coolant | | | | Combi tool holder | with thro' coolant | | 234 |
| HAAS/Doosan – BMT 65 | | | | | | | | | |
|  | Axial square section tool holder | Left-hand |  | 227 | | | | | |
|  | Square section adapter | Left-hand |  | 227 | | | | | |
|  | Square multiple tool holder | |  | 228 | | | | | |
|  | Combi tool holder | with thro' coolant | | 228 | | | | | |

Toolfinder – accessories

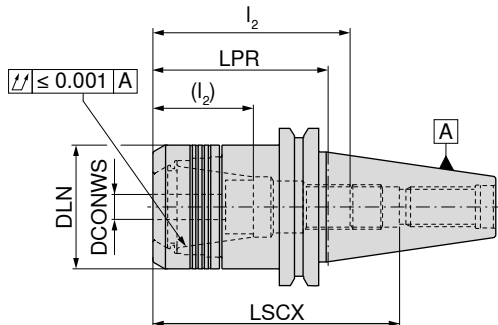
| Type | | Page No. | Type | | Page No. | |
|---|---|----------|--|---|---|---|
| Pull stud | SK | 57-59 | Spare parts for VDI |  | 258-260 | |
| | MAS-BT | 108+109 | | Spare parts driven tools |  | 261 |
| | PSC | 172 | | | Quick change applications |  |
| Coolant pipe/key | HSK-A | 152 | Reduction sleeve and reducing bushings |  | | 276+277 |
| | PSC | 172 | | 3D tester and zero setting device |  | 293+294 |
| Drill chuck with internal taper |  | 235 | Cleaning propeller | |  | 296 |
| Tap clamping sleeve for Weldon adapters |  | 240 | | TORX® screwdrivers, TORX® interchangeable blades, TORX® bit holders and adapters |  | 288-292 |
| Extension for Shell mill arbors |  | 256 | Assembly device for SK, HSK and PSC adapters | |  | 278 |
| Milling adapter ring |  | 257 | | MultiChange - Holder |  | 253-255 |
| Lock nuts ER-Standard and ER-Mini |  | 281 | MultiChange key | |  | 287 |
| Y clamping key and ER-Mini clamping key |  | 281 | | Cool-jet |  | 295 |
| Spare parts Centro-P |  | 279 | Taper wiper | |  | 278 |
| Roll key |  | 280 | | | | |
| ER collets |  | 262-272 | | | | |
| Sealing discs |  | 274+275 | | | | |

ER Precision Collet chuck – Centro-P

- ▲ for standard or sealed nuts
- ▲ maximum size collet to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without nut, without backstop**



AD
G 2,5 n_{max} 25000



AD/B
G 2,5 n_{max} 25000

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | for collet | AD | | AD/B | |
|--------------|--------------|-----------|-----------|------------|-----------------------|-------------|-------------------|-------------------|--------|-------|
| | | | | | | | £ | | £ | |
| SK 30 | 2 - 16 | 70 | 40 | 66 | 35 - 49 (18 - 31) | 430E (ER25) | 84 424 ... | 84 414 ... | | |
| | | | | | | | £ Y8 | £ Y8 | | |
| | | | | | | | 282.49 | | | |
| | | | | | | | | | | |
| SK 40 | 1 - 10 | 70 | 30 | 110 | 28 - 45 (16 - 31) | 426E (ER16) | 233.38 | | | |
| SK 40 | 1 - 10 | 100 | 30 | 140 | 28 - 45 (16 - 31) | 426E (ER16) | 287.41 | | | |
| SK 40 | 1 - 10 | 130 | 30 | 140 | 28 - 50 (14 - 34) | 426E (ER16) | | | 290.62 | 510 |
| SK 40 | 1 - 10 | 160 | 30 | 200 | 28 - 45 (16 - 31) | 426E (ER16) | | | 320.75 | 910 |
| SK 40 | 2 - 16 | 45 | 40 | 85 | 35 - 60 (20 - 42) | 430E (ER25) | | | 263.93 | 816 |
| SK 40 | 2 - 16 | 70 | 40 | 110 | 35 - 60 (20 - 42) | 430E (ER25) | 215.66 | | | |
| SK 40 | 2 - 16 | 100 | 40 | 113 | 35 - 60 (20 - 42) | 430E (ER25) | 287.41 | | | |
| SK 40 | 2 - 16 | 130 | 40 | 140 | 38 - 67 (21 - 49) | 430E (ER25) | | | 315.85 | 516 |
| SK 40 | 2 - 16 | 160 | 40 | 118 | 35 - 60 (20 - 42) | 430E (ER25) | | | 332.75 | 916 |
| SK 40 | 2 - 20 | 50 | 50 | 85 | 52 - 70 (26 - 52) | 470E (ER32) | 283.72 | | | |
| SK 40 | 2 - 20 | 70 | 50 | 111 | 55 - 75 (42 - 62) | 470E (ER32) | 201.27 | | | |
| SK 40 | 2 - 20 | 100 | 50 | 114 | 52 - 70 (32 - 52) | 470E (ER32) | 287.41 | | | |
| SK 40 | 2 - 20 | 130 | 50 | 114 | 50 - 74 (36 - 55) | 470E (ER32) | | | 315.85 | 620 |
| SK 40 | 2 - 20 | 160 | 50 | 119 | 52 - 70 (32 - 52) | 470E (ER32) | | | 332.75 | 920 |
| SK 40 | 3 - 26 | 70 | 63 | 105 | 48 - 55 | 472E (ER40) | 323.20 | | | |
| SK 50 | 2 - 16 | 100 | 40 | 150 | 35 - 64 (20 - 48) | 430E (ER25) | 538.66 | | | |
| SK 50 | 2 - 20 | 70 | 50 | 120 | 59 - 85 (40 - 70) | 470E (ER32) | | | 479.16 | 320 |
| SK 50 | 2 - 20 | 100 | 50 | 150 | 53 - 81 (35 - 63) | 470E (ER32) | | | 540.60 | 520 |
| SK 50 | 2 - 20 | 130 | 50 | 150 | 53 - 81 (35 - 63) | 470E (ER32) | | | 474.95 | 52100 |
| SK 50 | 2 - 20 | 160 | 50 | 200 | 53 - 83 (35 - 65) | 470E (ER32) | | | 880.56 | 720 |
| SK 50 | 3 - 26 | 70 | 63 | 120 | 48 - 60 | 472E (ER40) | | | 484.79 | 26600 |
| SK 50 | 3 - 26 | 100 | 63 | 90 | 48 - 70 | 472E (ER40) | | | 401.87 | 26700 |
| SK 50 | 3 - 26 | 130 | 63 | 90 | 47 - 57 | 472E (ER40) | | | 494.17 | 26800 |
| SK 50 | 3 - 26 | 160 | 63 | 90 | 47 - 57 | 472E (ER40) | | | 567.26 | 26900 |

1) Non standard groove before tool change collar not according to DIN, not suitable for automatic tool change

→ Transmittable torque moments, Page 306

i LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 3 mm longer

Spare parts ER precision collet chuck – Centro-P

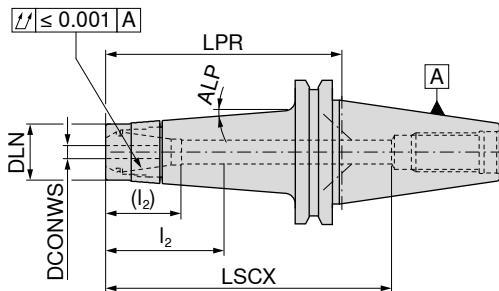
| | | | | |
|-------------------------------|------------|------------|-------------------------|-------------------------|
| | | | | |
| | 84 950 ... | 84 950 ... | 83 950 ... | 83 950 ... |
| Spare parts for collet | £ Y8 | £ Y8 | £ Y8 | £ Y8 |
| 426E (ER16) | 92.42 011 | 68.64 001 | M11x1 - SW6 57.33 341 | M11x1 - SW6 38.40 337 |
| 430E (ER25) | 103.01 013 | 76.26 003 | M18x1,5 - SW6 40.33 432 | M18x1,5 - SW6 28.76 431 |
| 470E (ER32) | 110.15 015 | 83.89 005 | M22x1,5 - SW6 34.06 402 | M22x1,5 - SW6 24.81 401 |
| 472E (ER40) | 150.65 017 | 122.04 007 | | M28x1,5 - SW6 34.77 400 |

ER Precision tapered collet chuck – Centro-P

- ▲ for special tapered nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop



AD/B
G 2,5 n_{max} 25000

84 417 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | for collet | ALP | £ Y8 | |
|---------|--------------|-----------|-----------|------------|-----------------------|-------------|------|---------|-------|
| SK 40 | 1 - 10 | 100 | 24 | 140 | 28 - 48 (20 - 35) | 426E (ER16) | 4.5° | 314.50 | 410 |
| SK 40 | 1 - 10 | 130 | 24 | 105 | 28 - 48 (20 - 35) | 426E (ER16) | 3.5° | 276.90 | 61000 |
| SK 40 | 1 - 10 | 160 | 24 | 200 | 28 - 48 (20 - 35) | 426E (ER16) | 2.5° | 377.34 | 910 |

→ Transmittable torque moments, Page 306



LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer

| | | | | |
|-------------------------------|------------|------------|-----------------------|-----------------------|
| | | | | |
| | 84 950 ... | 84 950 ... | 83 950 ... | 83 950 ... |
| Spare parts for collet | £ Y8 | £ Y8 | £ Y8 | £ Y8 |
| 426E (ER16) | 113.47 033 | 95.86 031 | M11x1 - SW6 57.33 341 | M11x1 - SW6 38.40 337 |

Accessories

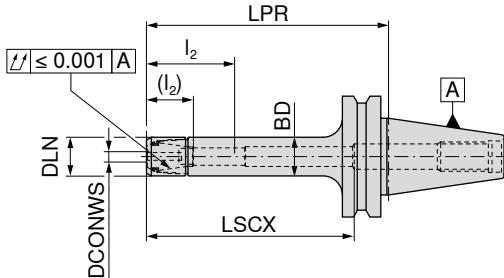
| | | | | | |
|----------------|--------------|----------|-----------------|------------|--------|
| | | | | | |
| ER collet | Sealing ring | Roll key | Roll key device | Pull studs | Others |
| → 262-269, 273 | → 274 | → 280 | → 280 | → 57, 59 | → 278 |

ER Precision collet chuck, slim version – Centro-P

- ▲ for Mini Clamping Nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ p_{max} 80 bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without nut, without backstop**



AD/B
G 2,5 n_{max} 25000

84 412 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | BD mm | LSCX mm | I_2 (I_2) mm | for collet | £ Y8 | |
|---------|--------------|-----------|-----------|----------|------------|-----------------------|--------------|---------|-----|
| SK 40 | 1 - 7 | 70 | 16 | 16 | 60 | 15 - 32 (7 - 22) | 4008E (ER11) | 294.43 | 207 |
| SK 40 | 1 - 7 | 100 | 16 | 16 | 68 | 18 - 36 (12 - 26) | 4008E (ER11) | 303.86 | 407 |
| SK 40 | 1 - 7 | 130 | 16 | 16 | 110 | 15 - 32 (7 - 22) | 4008E (ER11) | 392.47 | 607 |
| SK 40 | 1 - 7 | 160 | 16 | 16 | 68 | 18 - 36 (12 - 26) | 4008E (ER11) | 409.82 | 907 |
| SK 40 | 1 - 10 | 70 | 22 | 22 | 90 | 28 - 50 (14 - 36) | 426E (ER16) | 294.43 | 210 |
| SK 40 | 1 - 10 | 100 | 22 | 22 | 110 | 28 - 50 (14 - 36) | 426E (ER16) | 294.43 | 310 |
| SK 40 | 1 - 10 | 130 | 22 | 22 | 140 | 28 - 50 (14 - 36) | 426E (ER16) | 392.47 | 410 |
| SK 40 | 1 - 10 | 160 | 22 | 22 | 170 | 28 - 50 (14 - 36) | 426E (ER16) | 392.47 | 510 |

→ Transmittable torque moments, Page 306

i LSCX = Clamping depth without back stop screw for shanks
 I_2 = With back stop screw 1, Dimension in brackets (I_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer

| Spare parts for collet | Mini lock nut IK | Mini lock nut | Stop screw 2 | Stop screw 1 |
|---------------------------|------------------|---------------|--------------|--------------|
| | £ Y8 | £ Y8 | £ Y8 | £ Y8 |
| 4008E (ER11) | 84 950 ... | 84 950 ... | 83 950 ... | 83 950 ... |
| 426E (ER16) | 93.35 035 | 76.59 034 | 57.33 341 | 38.40 337 |
| | | 95.86 041 | 54.64 340 | 36.39 336 |
| | | | M8x1 - SW4 | M8x1 - SW4 |
| | | | M11x1 - SW6 | M11x1 - SW6 |

Accessories

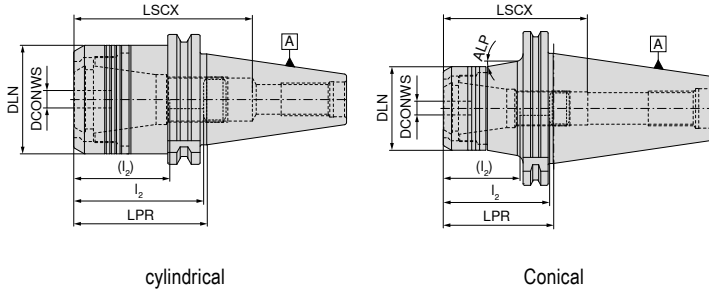
| | | | | | | |
|----------------|--------------|--------|----------|-----------------|------------|--------|
| | | | | | | |
| ER collet | Sealing ring | Device | Roll key | Roll key device | Pull studs | Others |
| → 262-269, 273 | → 274 | → 279 | → 280 | → 280 | → 57, 59 | → 278 |

ER precision collet chuck – HDC

- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip on request

Scope of supply:

Base body including lock nut, without backstop screw



G 6,3 p_{max} 18000

cylindrical



G 6,3 p_{max} 18000

conical

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | ALP ° | for collet | 84 400 ... £ Y8 | 84 400 ... £ Y8 |
|---------|--------------|-----------|-----------|------------|-----------------------|----------|-------------|-----------------------|-----------------------|
| SK 40 | 2 - 20 | 65 | 53 | 85 | 41 - 65 (27 - 47) | | 470E (ER32) | 393.28 | 12079 |
| SK 50 | 2 - 20 | 70 | 53 | 91 | 41 - 71 (27 - 53) | 10 | 470E (ER32) | | 632.13 12078 |
| SK 50 | 2 - 20 | 100 | 53 | 121 | 41 - 74 (27 - 56) | 10 | 470E (ER32) | | 738.30 22078 |



LSCX = Clamping depth without backstop screw
 l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2

Spare parts

| DCONWS | Lock nut | Stop screw 2 | Stop screw 1 |
|--------|---------------------------------------|------------------------------------|------------------------------------|
| 2 - 20 | 84 950 ... £ Y8 127.88 30100 | 83 950 ... £ Y8 34.06 402 | 83 950 ... £ Y8 24.81 401 |

Accessories

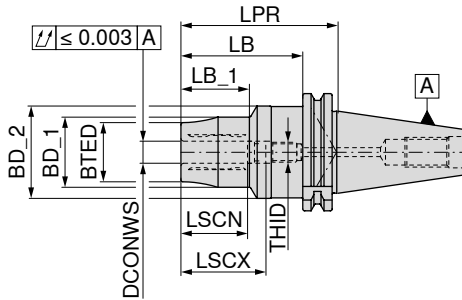
| ER collet | Roll key | Roll key device | Pull studs | Others |
|--------------------|----------|-----------------|------------|--------|
| → 262-270, 272-273 | → 280 | → 280 | → 57, 59 | → 278 |

High pressure chuck, short version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD/B
G 2,5 n_{max} 25000

83 422 ...

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD_1 mm | BD_2 mm | LB_1 mm | LSCX mm | LSCN mm | LB mm | THID mm | | |
|-------|---------|--------------|-----------|------------|------------|------------|------------|------------|------------|----------|------------|----------|-----|
| | | | | | | | | | | | | £ | |
| short | SK 40 | 16 | 90 | 36 | 42 | 50 | 42 | 49 | 39 | 71 | M12x1 | 1,141.41 | 116 |
| | SK 40 | 20 | 95 | 42 | 48 | 50 | 45 | 51 | 41 | 76 | M16x1 | 1,014.24 | 120 |
| | SK 40 | 25 | 110 | 51 | 57 | 50 | 60 | 57 | 47 | 91 | M16x1 | 1,141.41 | 125 |
| | SK 40 | 32 | 120 | 57 | 63 | 50 | 65 | 61 | 51 | 101 | M16x1 | 1,141.41 | 132 |

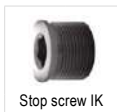
→ Min. clamping depth, Page 306



Clamping key – T



Pressure screw



Stop screw IK

Spare parts

| DCONWS | | | £ | | £ | | £ | | |
|--------|-----|------|-----|-------------|-------|-----|------------|-------|-----|
| 16 | SW5 | 7.73 | 050 | TR10x1,5x14 | 40.85 | 430 | M12x1x18 | 21.22 | 446 |
| 20 | SW5 | 7.73 | 050 | TR10x1,5x14 | 40.85 | 430 | M16x1x18,5 | 23.26 | 448 |
| 25 | SW5 | 7.73 | 050 | TR10x1,5x14 | 40.85 | 430 | M16x1x22 | 36.76 | 449 |
| 32 | SW5 | 7.73 | 050 | TR10x1,5x14 | 40.85 | 430 | M16x1x25 | 45.75 | 450 |

Accessories

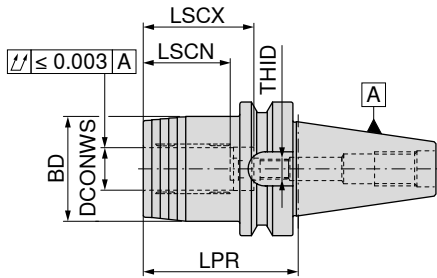
| | | |
|------------------|------------|--------|
| | | |
| Reduction sleeve | Pull studs | Others |
| → 276 | → 57, 59 | → 278 |

High pressure chuck, short and stable version

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD/B
G 2,5 n_{max} 25000

83 427 ...

£
Y8

429.89 120

| Adapter | DCONWS mm | LPR mm | BD mm | LSCX mm | LSCN mm | THID |
|---------|--------------|-----------|----------|------------|------------|------------|
| SK 40 | 20 | 64.5 | 49 | 51 | 40 | M16x1x13,5 |

→ Min. clamping depth, Page 306



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

83 950 ...

80 397 ...

83 950 ...

83 950 ...

**Spare parts
for Article no.**

| | | | | | | | | | | | | |
|------------|--------------|------|-----|-----|------|-----|----------|-------|-----|------------------|-------|-----|
| 83 427 120 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x14 | 10.98 | 429 | M16x1x13,5 - SW8 | 27.66 | 424 |
|------------|--------------|------|-----|-----|------|-----|----------|-------|-----|------------------|-------|-----|

Accessories

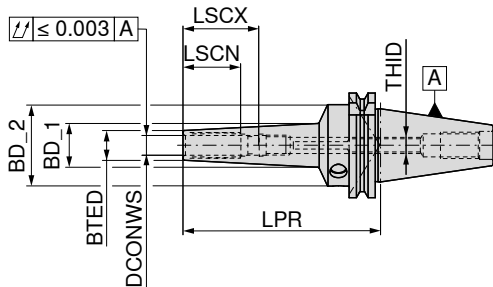
| | | |
|------------------|------------|--------|
| | | |
| Reduction sleeve | Pull studs | Others |
| → 276 | → 57, 59 | → 278 |

High pressure chuck, slim 3°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw, pressure screw and screw plug



AD/B
G 2,5 n_{max} 25000

83 421 ...

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD_1 mm | BD_2 mm | LSCX mm | LSCN mm | THID | £ | |
|---------------|---------|--------------|-----------|------------|------------|------------|------------|------------|-------|----------|-----|
| | | | | | | | | | | Y8 | |
| medium length | SK 40 | 3 | 120 | 9 | 17.40 | 49.5 | 28 | 12 | M3 | 820.36 | 103 |
| | SK 40 | 4 | 120 | 10 | 18.40 | 49.5 | 28 | 16 | M3 | 820.36 | 104 |
| | SK 40 | 5 | 120 | 11 | 19.40 | 49.5 | 28 | 20 | M3 | 820.36 | 105 |
| | SK 40 | 6 | 120 | 12 | 20.40 | 49.5 | 37 | 27 | M5 | 699.76 | 106 |
| | SK 40 | 8 | 120 | 14 | 22.40 | 49.5 | 37 | 27 | M6 | 699.76 | 108 |
| | SK 40 | 10 | 120 | 16 | 24.50 | 49.5 | 41 | 31 | M8x1 | 699.76 | 110 |
| | SK 40 | 12 | 120 | 18 | 26.60 | 49.5 | 46 | 36 | M10x1 | 699.76 | 112 |
| | SK 40 | 16 | 120 | 24 | 32.30 | 49.5 | 49 | 39 | M12x1 | 1,012.82 | 116 |
| | SK 40 | 20 | 120 | 28 | 36.40 | 49.5 | 51 | 41 | M16x1 | 1,012.82 | 120 |
| | SK 40 | 6 | 160 | 16 | 34.37 | 49.5 | 37 | 27 | M5 | 1,007.44 | 206 |
| | SK 40 | 8 | 160 | 18 | 35.45 | 49.5 | 37 | 27 | M6 | 1,007.44 | 208 |
| | SK 40 | 10 | 160 | 20 | 37.10 | 49.5 | 41 | 31 | M8x1 | 1,007.44 | 210 |
| | SK 40 | 12 | 160 | 22 | 38.72 | 49.5 | 46 | 36 | M10x1 | 1,007.44 | 212 |
| | SK 40 | 6 | 200 | 16 | 38.72 | 49.5 | 37 | 27 | M5 | 1,192.46 | 306 |
| | SK 40 | 8 | 200 | 18 | 39.74 | 49.5 | 37 | 27 | M6 | 1,192.46 | 308 |
| | SK 40 | 10 | 200 | 20 | 41.40 | 49.5 | 41 | 31 | M8x1 | 1,192.46 | 310 |
| | SK 40 | 12 | 200 | 22 | 43.02 | 49.5 | 46 | 36 | M10x1 | 1,192.46 | 312 |

→ Min. clamping depth, Page 306



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

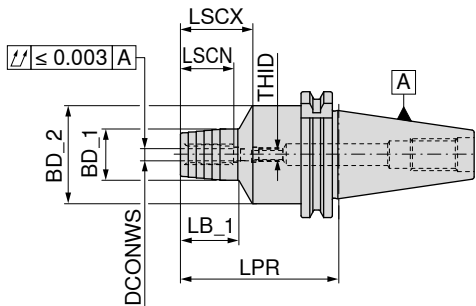
| Spare parts for Article no. | 83 950 ... | | 80 397 ... | | 83 950 ... | | 83 950 ... | | | | | |
|--------------------------------|--------------|------|------------|-----|------------|-----|------------|-------|-----|------------------|-------|-----|
| | £ | Y7 | £ | Y7 | £ | Y7 | £ | Y7 | | | | |
| 83 421 103 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M3x20 - SW1,5 | 16.65 | 172 |
| 83 421 104 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M3x20 - SW1,5 | 16.65 | 172 |
| 83 421 105 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M3x20 - SW1,5 | 16.65 | 172 |
| 83 421 106 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 83 421 108 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M6x12,5 - SW3 | 23.98 | 419 |
| 83 421 110 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 83 421 112 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 83 421 116 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M12x1x13,5 - SW5 | 23.98 | 422 |
| 83 421 120 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M16x1x13,5 - SW8 | 27.66 | 424 |
| 83 421 206 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 83 421 208 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M6x12,5 - SW3 | 23.98 | 419 |
| 83 421 210 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 83 421 212 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 83 421 306 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 83 421 308 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M6x12,5 - SW3 | 23.98 | 419 |
| 83 421 310 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 83 421 312 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M8x1x13,5 - SW3 | 23.98 | 420 |

Hydraulic chuck, short and slim version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD/B
G 2,5 n_{max} 25000

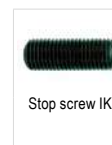
83 402 ...

| | Adapter | DCONWS mm | LPR mm | BD_1 mm | BD_2 mm | LSCX mm | LSCN mm | LB_1 mm | THID | | |
|----------------|---------|--------------|-----------|------------|------------|------------|------------|------------|-------|----------|-----|
| | | | | | | | | | | £ | |
| short and slim | SK 40 | 6 | 80.5 | 26 | 49.5 | 37 | 27 | 29.5 | M5 | 835.64 | 106 |
| | SK 40 | 8 | 80.5 | 28 | 49.5 | 37 | 27 | 30.0 | M6 | 835.64 | 108 |
| | SK 40 | 10 | 80.5 | 30 | 49.5 | 41 | 31 | 35.0 | M8x1 | 835.64 | 110 |
| | SK 40 | 12 | 80.5 | 32 | 49.5 | 46 | 36 | 40.0 | M10x1 | 730.49 | 112 |
| | SK 40 | 16 | 80.5 | 38 | 49.5 | 49 | 39 | 45.0 | M12x1 | 835.64 | 116 |
| | SK 40 | 20 | 80.5 | 42 | 49.5 | 51 | 41 | 47.0 | M16x1 | 730.49 | 120 |
| | SK 40 | 25 | 80.5 | 55 | 63.0 | 57 | 47 | 28.0 | M16x1 | 835.64 | 125 |
| | SK 40 | 32 | 80.5 | 63 | 70.0 | 61 | 51 | 25.5 | M16x1 | 835.64 | 132 |
| | SK 50 | 6 | 80.5 | 26 | 49.5 | 37 | 27 | 29.5 | M5 | 1,169.50 | 306 |
| | SK 50 | 8 | 80.5 | 28 | 49.5 | 37 | 27 | 30.0 | M6 | 1,169.50 | 308 |
| | SK 50 | 10 | 80.5 | 30 | 49.5 | 41 | 31 | 35.0 | M8x1 | 1,169.50 | 310 |
| | SK 50 | 12 | 80.5 | 32 | 49.5 | 46 | 36 | 40.0 | M10x1 | 1,062.52 | 312 |
| | SK 50 | 16 | 80.5 | 38 | 49.5 | 49 | 39 | 45.0 | M12x1 | 1,169.50 | 316 |
| | SK 50 | 20 | 80.5 | 42 | 49.5 | 51 | 41 | 42.0 | M16x1 | 1,062.52 | 320 |
| | SK 50 | 25 | 100.0 | 55 | 63.0 | 57 | 47 | 48.0 | M16x1 | 1,169.50 | 325 |
| | SK 50 | 32 | 100.0 | 63 | 70.0 | 61 | 51 | 51.0 | M16x1 | 1,169.50 | 332 |

→ Min. clamping depth, Page 306



Pressure screw



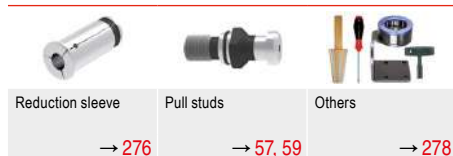
Stop screw IK



Stop screw IK

| Spare parts | 83 950 ... | | 83 950 ... | | 83 950 ... | | | | |
|-------------|------------|-------|------------|-------------|-----------------|-------|------------------|-------|-----|
| | DCONWS | £ Y7 | | £ Y7 | | £ Y7 | | | |
| 6 | M8x1x10 | 16.61 | 439 | | M5x12,5 - SW2,5 | 23.98 | 418 | | |
| 8 | M8x1x10 | 16.61 | 439 | M6x14 - SW2 | 23.98 | 417 | M6x12,5 - SW3 | 23.98 | 419 |
| 10 | M10x1x12 | 16.61 | 440 | | | | M8x1x13,5 - SW3 | 23.98 | 420 |
| 12 | M10x1x12 | 16.61 | 440 | | | | M10x1x13,5 - SW5 | 23.98 | 421 |
| 16 | M10x1x12 | 16.61 | 440 | | | | M12x1x13,5 - SW5 | 23.98 | 422 |
| 20 - 32 | M10x1x12 | 16.61 | 440 | | | | M16x1x13,5 - SW8 | 27.66 | 424 |

Accessories



Reduction sleeve

→ 276

Pull studs

→ 57, 59

Others

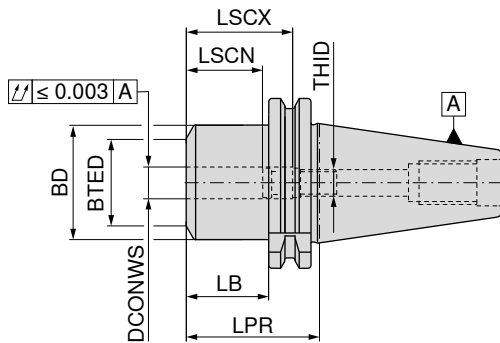
→ 278

Hydraulic chuck, short and stable version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

| |
|-------------------|
| 83 430 ... |
| £ Y8 |
| 377.13 01279 |
| 377.13 02079 |
| 674.03 02078 |

| Adapter | DCONWS mm | LPR mm | BD mm | BTED mm | LB mm | LSCN mm | LSCX mm | THID |
|---------|--------------|-----------|----------|------------|----------|------------|------------|-------|
| SK 40 | 12 | 50.0 | 42 | 32 | 31.0 | 46 | 56 | M8x1 |
| SK 40 | 20 | 64.5 | 49 | 38 | 45.5 | 41 | 51 | M16x1 |
| SK 50 | 20 | 64.5 | 49 | 38 | 45.5 | 41 | 51 | M16x1 |

→ Min. clamping depth, Page 306



Clamping key - T



Pressure screw



Stop screw IK

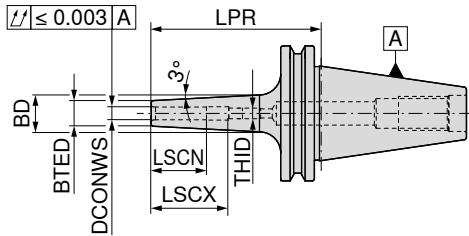
Spare parts

| DCONWS | SW | Price | Part No. | SW | Price | Part No. | SW | Price | Part No. |
|--------|-----|-------|----------|----------|-------|----------|------------------|-------|----------|
| 12 | SW5 | 7.73 | 050 | M10x1x12 | 16.61 | 440 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 20 | SW5 | 7.73 | 050 | M10x1x12 | 16.61 | 440 | M16x1x13,5 - SW8 | 27.66 | 424 |

Heat shrink adapter, slim 3°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG



AD/B
G 2,5 n_{max} 25000

84 320 ...

| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | | £ | |
|---------------|---------|--------|-----|------|----|------|-------|-------|--------|--------|-----|
| | | mm | mm | mm | mm | mm | mm | | | Y8 | |
| short | SK 40 | 3 | 80 | 9 | 14 | 28 | 12 | M6 | | 640.62 | 103 |
| | SK 40 | 4 | 80 | 10 | 15 | 28 | 16 | M6 | | 622.31 | 104 |
| | SK 40 | 5 | 80 | 11 | 16 | 30 | 20 | M6 | | 622.31 | 105 |
| | SK 40 | 6 | 80 | 12 | 17 | 36 | 26 | M5 | | 544.51 | 106 |
| | SK 40 | 8 | 80 | 14 | 19 | 36 | 26 | M6 | | 544.51 | 108 |
| | SK 40 | 10 | 80 | 16 | 21 | 41 | 31 | M8x1 | | 544.51 | 110 |
| | SK 40 | 12 | 80 | 18 | 23 | 47 | 37 | M10x1 | | 544.51 | 112 |
| | SK 40 | 14 | 80 | 20 | 26 | 47 | 37 | M10x1 | | 544.51 | 114 |
| | SK 40 | 16 | 80 | 22 | 28 | 50 | 40 | M12x1 | | 544.51 | 116 |
| | SK 40 | 18 | 80 | 24 | 30 | 50 | 40 | M12x1 | | 544.51 | 118 |
| SK 40 | 20 | 80 | 26 | 32 | 52 | 42 | M16x1 | | 544.51 | 120 | |
| medium length | SK 40 | 3 | 120 | 9 | 16 | 12 | 12 | | | 718.41 | 203 |
| | SK 40 | 4 | 120 | 10 | 17 | 16 | 16 | | | 700.10 | 204 |
| | SK 40 | 5 | 120 | 11 | 18 | 20 | 20 | | | 700.10 | 205 |
| | SK 40 | 6 | 120 | 12 | 22 | 36 | 26 | M5 | | 626.89 | 206 |
| | SK 40 | 8 | 120 | 14 | 24 | 36 | 26 | M6 | | 626.89 | 208 |
| | SK 40 | 10 | 120 | 16 | 26 | 41 | 31 | M8x1 | | 626.89 | 210 |
| | SK 40 | 12 | 120 | 18 | 28 | 47 | 37 | M10x1 | | 626.89 | 212 |
| | SK 40 | 14 | 120 | 20 | 30 | 47 | 37 | M10x1 | | 626.89 | 214 |
| | SK 40 | 16 | 120 | 22 | 32 | 50 | 40 | M12x1 | | 626.89 | 216 |
| | SK 40 | 18 | 120 | 24 | 34 | 50 | 40 | M12x1 | | 626.89 | 218 |
| SK 40 | 20 | 120 | 26 | 36 | 52 | 42 | M16x1 | | 626.89 | 220 | |
| extra-long | SK 40 | 3 | 160 | 9 | 19 | 12 | 12 | | | 814.50 | 303 |
| | SK 40 | 4 | 160 | 10 | 20 | 16 | 16 | | | 796.19 | 304 |
| | SK 40 | 5 | 160 | 11 | 21 | 20 | 20 | | | 796.19 | 305 |
| | SK 40 | 6 | 160 | 12 | 24 | 36 | 26 | M5 | | 723.00 | 306 |
| | SK 40 | 8 | 160 | 14 | 26 | 36 | 26 | M6 | | 723.00 | 308 |
| | SK 40 | 10 | 160 | 16 | 28 | 41 | 31 | M8x1 | | 723.00 | 310 |
| | SK 40 | 12 | 160 | 18 | 30 | 47 | 37 | M10x1 | | 723.00 | 312 |
| | SK 40 | 14 | 160 | 20 | 32 | 47 | 37 | M10x1 | | 723.00 | 314 |
| | SK 40 | 16 | 160 | 22 | 34 | 50 | 40 | M12x1 | | 723.00 | 316 |
| | SK 40 | 18 | 160 | 24 | 36 | 50 | 40 | M12x1 | | 723.00 | 318 |
| SK 40 | 20 | 160 | 26 | 38 | 52 | 42 | M16x1 | | 723.00 | 320 | |

→ Min. clamping depth, Page 306



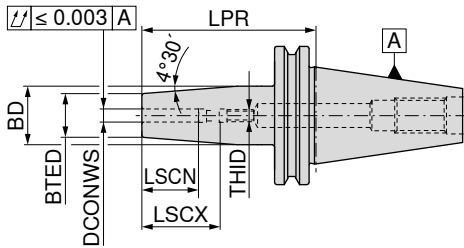
Spare parts
DCONWS

| | | £ | | £ | |
|---------|-------------|-------|-----|------------------|-----------|
| | | Y7 | | Y7 | |
| 3 - 5 | M6x14 - SW2 | 23.98 | 417 | | |
| 6 | | | | M5x12,5 - SW2,5 | 23.98 418 |
| 8 | | | | M6x12,5 - SW3 | 23.98 419 |
| 10 | | | | M8x1x13,5 - SW3 | 23.98 420 |
| 12 - 14 | | | | M10x1x13,5 - SW5 | 23.98 421 |
| 16 - 18 | | | | M12x1x13,5 - SW5 | 23.98 422 |
| 20 | | | | M16x1x13,5 - SW8 | 27.66 424 |

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip on request

TG



AD/B
G 2,5 n_{max} 25000

84 300 ...

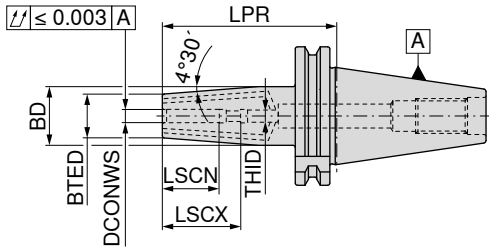
| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | £ | |
|---------------|---------|--------|-----|------|----|------|-------|--------|--------|-----|
| | | mm | mm | mm | mm | mm | mm | | Y8 | |
| short | SK 40 | 3 | 80 | 10 | 17 | 22 | 12 | M6 | 245.40 | 103 |
| | SK 40 | 4 | 80 | 15 | 22 | 26 | 16 | M6 | 245.40 | 104 |
| | SK 40 | 5 | 80 | 15 | 22 | 30 | 20 | M6 | 245.40 | 105 |
| | SK 40 | 6 | 80 | 21 | 27 | 36 | 26 | M5 | 235.28 | 106 |
| | SK 40 | 8 | 80 | 21 | 27 | 26 | 26 | M6 | 235.28 | 108 |
| | SK 40 | 10 | 80 | 24 | 32 | 41 | 31 | M8x1 | 235.28 | 110 |
| | SK 40 | 12 | 80 | 24 | 32 | 47 | 37 | M10x1 | 235.28 | 112 |
| | SK 40 | 14 | 80 | 27 | 34 | 47 | 37 | M10x1 | 235.28 | 114 |
| | SK 40 | 16 | 80 | 27 | 34 | 50 | 40 | M12x1 | 235.28 | 116 |
| | SK 40 | 18 | 80 | 33 | 42 | 50 | 40 | M12x1 | 235.28 | 118 |
| | SK 40 | 20 | 80 | 33 | 42 | 52 | 42 | M16x1 | 235.28 | 120 |
| SK 40 | 25 | 100 | 44 | 53 | 58 | 48 | M16x1 | 235.28 | 125 | |
| medium length | SK 40 | 3 | 120 | 10 | 20 | 12 | 12 | | 302.75 | 203 |
| | SK 40 | 4 | 120 | 15 | 22 | 16 | 16 | | 304.21 | 204 |
| | SK 40 | 5 | 120 | 15 | 22 | 20 | 20 | | 304.21 | 205 |
| | SK 40 | 6 | 120 | 21 | 27 | 36 | 26 | M5 | 303.81 | 206 |
| | SK 40 | 8 | 120 | 21 | 27 | 36 | 26 | M6 | 303.81 | 208 |
| | SK 40 | 10 | 120 | 24 | 32 | 41 | 31 | M8x1 | 303.81 | 210 |
| | SK 40 | 12 | 120 | 24 | 32 | 47 | 37 | M10x1 | 303.81 | 212 |
| | SK 40 | 14 | 120 | 27 | 34 | 47 | 37 | M10x1 | 303.81 | 214 |
| | SK 40 | 16 | 120 | 27 | 34 | 50 | 40 | M12x1 | 303.81 | 216 |
| | SK 40 | 18 | 120 | 33 | 42 | 50 | 40 | M12x1 | 303.81 | 218 |
| | SK 40 | 20 | 120 | 33 | 42 | 52 | 42 | M16x1 | 303.81 | 220 |
| SK 40 | 25 | 120 | 44 | 53 | 58 | 48 | M16x1 | 567.40 | 225 | |
| extra-long | SK 40 | 3 | 160 | 10 | 20 | 12 | 12 | | 412.36 | 303 |
| | SK 40 | 4 | 160 | 15 | 22 | 16 | 16 | | 402.88 | 304 |
| | SK 40 | 5 | 160 | 15 | 22 | 20 | 20 | | 402.88 | 305 |
| | SK 40 | 6 | 160 | 21 | 27 | 36 | 26 | M5 | 363.25 | 306 |
| | SK 40 | 8 | 160 | 21 | 27 | 36 | 26 | M6 | 363.25 | 308 |
| | SK 40 | 10 | 160 | 24 | 32 | 41 | 31 | M8x1 | 363.25 | 310 |
| | SK 40 | 12 | 160 | 24 | 32 | 47 | 37 | M10x1 | 363.25 | 312 |
| | SK 40 | 14 | 160 | 27 | 34 | 47 | 37 | M10x1 | 363.25 | 314 |
| | SK 40 | 16 | 160 | 27 | 34 | 50 | 40 | M12x1 | 363.25 | 316 |
| | SK 40 | 18 | 160 | 33 | 42 | 50 | 40 | M12x1 | 363.25 | 318 |
| | SK 40 | 20 | 160 | 33 | 42 | 52 | 42 | M16x1 | 363.25 | 320 |
| SK 40 | 25 | 160 | 44 | 53 | 58 | 48 | M16x1 | 363.25 | 325 | |

→ Min. clamping depth, Page 306

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG



AD/B – 2KMB
G 2,5 n_{max} 25000

84 317 ...

| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | | £ | |
|-------|---------|--------|-----|------|----|------|------|-------|--------|-----|--|
| | | mm | mm | mm | mm | mm | mm | mm | | | |
| short | SK 40 | 3 | 80 | 10 | 17 | 28 | 12 | M6 | 650.85 | 103 | |
| | SK 40 | 4 | 80 | 15 | 22 | 28 | 16 | M6 | 629.83 | 104 | |
| | SK 40 | 5 | 80 | 15 | 22 | 30 | 20 | M6 | 629.83 | 105 | |
| | SK 40 | 6 | 80 | 21 | 27 | 36 | 26 | M5 | 554.06 | 106 | |
| | SK 40 | 8 | 80 | 21 | 27 | 36 | 26 | M6 | 554.06 | 108 | |
| | SK 40 | 10 | 80 | 24 | 32 | 41 | 31 | M8x1 | 554.06 | 110 | |
| | SK 40 | 12 | 80 | 24 | 32 | 47 | 37 | M10x1 | 554.06 | 112 | |
| | SK 40 | 14 | 80 | 27 | 34 | 47 | 37 | M10x1 | 554.06 | 114 | |
| | SK 40 | 16 | 80 | 27 | 34 | 50 | 40 | M12x1 | 554.06 | 116 | |
| | SK 40 | 18 | 80 | 33 | 42 | 50 | 40 | M12x1 | 554.06 | 118 | |
| | SK 40 | 20 | 80 | 33 | 42 | 52 | 42 | M16x1 | 554.06 | 120 | |
| | SK 40 | 25 | 100 | 44 | 53 | 58 | 48 | M16x1 | 554.06 | 125 | |
| | SK 40 | 32 | 100 | 44 | 53 | 62 | 52 | M16x1 | 554.06 | 132 | |

→ Min. clamping depth, Page 306



Stop screw IK



Stop screw IK



Sealing screw

Spare parts

| DCONWS | | £ | | £ | | £ | | | |
|---------|-------------|-------|-----|------------------|-------|-----|------|------|-----|
| | | Y7 | | Y7 | | Y7 | | | |
| 3 - 5 | M6x14 - SW2 | 23.98 | 417 | M5x12,5 - SW2,5 | 23.98 | 418 | M2x6 | 1.93 | 512 |
| 6 | | | | M6x12,5 - SW3 | 23.98 | 419 | M2x6 | 1.93 | 512 |
| 8 | | | | M8x1x13,5 - SW3 | 23.98 | 420 | M2x6 | 1.93 | 512 |
| 10 | | | | M10x1x13,5 - SW5 | 23.98 | 421 | M2x6 | 1.93 | 512 |
| 12 - 14 | | | | M12x1x13,5 - SW5 | 23.98 | 422 | M2x6 | 1.93 | 512 |
| 16 - 18 | | | | M16x1x13,5 - SW8 | 27.66 | 424 | M2x6 | 1.93 | 512 |
| 20 - 25 | | | | | | | M2x6 | 1.93 | 512 |
| 32 | M16x1 - SW5 | 19.25 | 511 | | | | M2x6 | 1.93 | 512 |

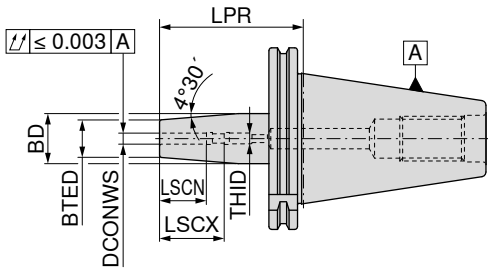
Accessories

| | | |
|----------------------|------------|--------|
| | | |
| Shrink fit extension | Pull studs | Others |
| → 241 | → 57, 59 | → 278 |

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip on request

TG



AD/B
G 2,5 n_{max} 25000

84 301 ...

| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | | £ | |
|---------------|---------|--------|-----|------|----|------|------|-------|--|--------|-----|
| | | mm | mm | mm | mm | mm | mm | | | Y8 | |
| short | SK 50 | 6 | 80 | 21 | 27 | 36 | 26 | M5 | | 404.77 | 106 |
| | SK 50 | 8 | 80 | 21 | 27 | 36 | 26 | M6 | | 404.77 | 108 |
| | SK 50 | 10 | 80 | 24 | 32 | 41 | 31 | M8x1 | | 404.77 | 110 |
| | SK 50 | 12 | 80 | 24 | 32 | 47 | 37 | M10x1 | | 404.77 | 112 |
| | SK 50 | 14 | 80 | 27 | 34 | 47 | 37 | M10x1 | | 404.77 | 114 |
| | SK 50 | 16 | 80 | 27 | 34 | 50 | 40 | M12x1 | | 404.77 | 116 |
| | SK 50 | 18 | 80 | 33 | 42 | 50 | 40 | M12x1 | | 404.77 | 118 |
| | SK 50 | 20 | 80 | 33 | 42 | 52 | 42 | M16x1 | | 404.77 | 120 |
| | SK 50 | 25 | 100 | 44 | 53 | 58 | 48 | M16x1 | | 404.77 | 125 |
| | SK 50 | 32 | 100 | 44 | 53 | 62 | 52 | M16x1 | | 404.77 | 132 |
| medium length | SK 50 | 6 | 120 | 21 | 27 | 36 | 26 | M5 | | 446.52 | 206 |
| | SK 50 | 8 | 120 | 21 | 27 | 36 | 26 | M6 | | 446.52 | 208 |
| | SK 50 | 10 | 120 | 24 | 32 | 41 | 31 | M8x1 | | 446.52 | 210 |
| | SK 50 | 12 | 120 | 24 | 32 | 47 | 37 | M10x1 | | 446.52 | 212 |
| | SK 50 | 14 | 120 | 27 | 34 | 47 | 37 | M10x1 | | 446.52 | 214 |
| | SK 50 | 16 | 120 | 27 | 34 | 50 | 40 | M12x1 | | 446.52 | 216 |
| | SK 50 | 18 | 120 | 33 | 42 | 50 | 40 | M12x1 | | 446.52 | 218 |
| | SK 50 | 20 | 120 | 33 | 42 | 52 | 42 | M16x1 | | 446.52 | 220 |
| | SK 50 | 25 | 120 | 44 | 53 | 58 | 48 | M16x1 | | 446.52 | 225 |
| | SK 50 | 32 | 120 | 44 | 53 | 62 | 52 | M16x1 | | 446.52 | 232 |
| extra-long | SK 50 | 6 | 160 | 21 | 27 | 36 | 26 | M5 | | 497.54 | 306 |
| | SK 50 | 8 | 160 | 21 | 27 | 36 | 26 | M6 | | 497.54 | 308 |
| | SK 50 | 10 | 160 | 24 | 32 | 41 | 31 | M8x1 | | 497.54 | 310 |
| | SK 50 | 12 | 160 | 24 | 32 | 47 | 37 | M10x1 | | 497.54 | 312 |
| | SK 50 | 14 | 160 | 27 | 34 | 47 | 37 | M10x1 | | 497.54 | 314 |
| | SK 50 | 16 | 160 | 27 | 34 | 50 | 40 | M12x1 | | 497.54 | 316 |
| | SK 50 | 18 | 160 | 33 | 42 | 50 | 40 | M12x1 | | 497.54 | 318 |
| | SK 50 | 20 | 160 | 33 | 42 | 52 | 42 | M16x1 | | 497.54 | 320 |
| | SK 50 | 25 | 160 | 44 | 53 | 58 | 48 | M16x1 | | 497.54 | 325 |
| | SK 50 | 32 | 160 | 44 | 53 | 62 | 52 | M16x1 | | 497.54 | 332 |

→ Min. clamping depth, Page 306



Spare parts
DCONWS

| | | £ | |
|---------|------------------|-------|-----|
| | | Y7 | |
| 6 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 8 | M6x12,5 - SW3 | 23.98 | 419 |
| 10 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 12 - 14 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 16 - 18 | M12x1x13,5 - SW5 | 23.98 | 422 |
| 20 - 32 | M16x1x13,5 - SW8 | 27.66 | 424 |

83 950 ...

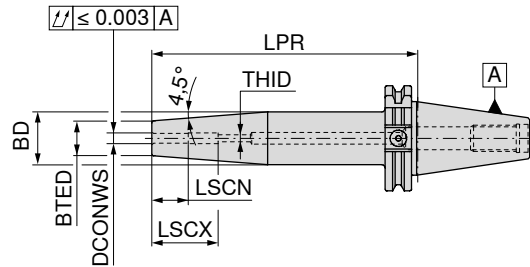
Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip on request

Scope of supply:

Holder **without** backstop screw

TG



AD/B
G 2,5 n_{max} 25000

82 310 ...

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD mm | LSCX mm | LSCN mm | THID | | |
|---------------|---------|--------------|-----------|------------|----------|------------|------------|--------|--------|-------|
| | | | | | | | | | £ | |
| short | SK 40 | 3 | 70 | 12 | 17.0 | | | | 226.75 | 10379 |
| | SK 40 | 4 | 70 | 12 | 17.0 | | | | 226.75 | 10479 |
| | SK 40 | 5 | 70 | 12 | 17.0 | | | | 226.75 | 10579 |
| | SK 40 | 6 | 80 | 21 | 30.5 | 36 | 26 | M5 | 216.67 | 10679 |
| | SK 40 | 8 | 80 | 21 | 30.5 | 36 | 26 | M6 | 216.67 | 10879 |
| | SK 40 | 10 | 80 | 24 | 33.5 | 41 | 31 | M8x1 | 216.67 | 11079 |
| | SK 40 | 12 | 80 | 24 | 33.5 | 47 | 37 | M10x1 | 216.67 | 11279 |
| | SK 40 | 14 | 80 | 27 | 36.5 | 47 | 37 | M10x1 | 216.67 | 11479 |
| | SK 40 | 16 | 80 | 27 | 36.5 | 50 | 40 | M12x1 | 216.67 | 11679 |
| | SK 40 | 18 | 80 | 33 | 42.5 | 50 | 40 | M12x1 | 216.67 | 11879 |
| | SK 40 | 20 | 80 | 33 | 42.5 | 52 | 42 | M16x1 | 216.67 | 12079 |
| | SK 40 | 25 | 100 | 44 | 50.0 | 58 | 48 | M16x1 | 216.67 | 12579 |
| | SK 50 | 6 | 80 | 21 | 27.0 | 36 | 26 | M5 | 267.81 | 10678 |
| | SK 50 | 8 | 80 | 21 | 27.0 | 36 | 26 | M6 | 267.81 | 10878 |
| | SK 50 | 10 | 80 | 24 | 32.0 | 41 | 31 | M8x1 | 267.81 | 11078 |
| | SK 50 | 12 | 80 | 24 | 32.0 | 47 | 37 | M10x1 | 267.81 | 11278 |
| | SK 50 | 14 | 80 | 27 | 34.0 | 47 | 37 | M10x1 | 267.81 | 11478 |
| | SK 50 | 16 | 80 | 27 | 34.0 | 50 | 40 | M12x1 | 267.81 | 11678 |
| SK 50 | 18 | 80 | 33 | 42.0 | 50 | 40 | M12x1 | 267.81 | 11878 | |
| SK 50 | 20 | 80 | 33 | 42.0 | 52 | 42 | M12x1 | 267.81 | 12078 | |
| SK 50 | 25 | 100 | 44 | 53.0 | 58 | 48 | M16x1 | 267.81 | 12578 | |
| SK 50 | 32 | 100 | 44 | 53.0 | 62 | 52 | M16x1 | 267.81 | 13278 | |
| medium length | SK 40 | 3 | 120 | 12 | 17.0 | | | | 273.37 | 20379 |
| | SK 40 | 4 | 120 | 12 | 17.0 | | | | 273.37 | 20479 |
| | SK 40 | 5 | 120 | 12 | 17.0 | | | | 273.37 | 20579 |
| | SK 40 | 6 | 120 | 21 | 31.0 | 36 | 26 | M5 | 273.37 | 20679 |
| | SK 40 | 8 | 120 | 21 | 32.0 | 36 | 26 | M6 | 273.37 | 20879 |
| | SK 40 | 10 | 120 | 24 | 34.0 | 41 | 31 | M8x1 | 273.37 | 21079 |
| | SK 40 | 12 | 120 | 24 | 34.0 | 47 | 37 | M10x1 | 273.37 | 21279 |
| | SK 40 | 16 | 120 | 27 | 36.0 | 50 | 40 | M12x1 | 273.37 | 21679 |
| | SK 40 | 20 | 120 | 33 | 44.0 | 52 | 42 | M16x1 | 273.37 | 22079 |
| | SK 50 | 6 | 120 | 21 | 27.0 | 36 | 26 | M5 | 294.10 | 20678 |
| | SK 50 | 8 | 120 | 21 | 27.0 | 36 | 26 | M6 | 294.10 | 20878 |
| | SK 50 | 10 | 120 | 24 | 32.0 | 41 | 31 | M8x1 | 294.10 | 21078 |
| | SK 50 | 12 | 120 | 24 | 32.0 | 47 | 37 | M10x1 | 294.10 | 21278 |
| | SK 50 | 14 | 120 | 27 | 34.0 | 47 | 37 | M10x1 | 294.10 | 21478 |
| | SK 50 | 16 | 120 | 27 | 34.0 | 50 | 40 | M12x1 | 294.10 | 21678 |
| | SK 50 | 18 | 120 | 33 | 42.0 | 50 | 40 | M12x1 | 294.10 | 21878 |
| | SK 50 | 20 | 120 | 33 | 42.0 | 52 | 42 | M16x1 | 294.10 | 22078 |
| | SK 50 | 25 | 120 | 44 | 53.0 | 58 | 48 | M16x1 | 294.10 | 22578 |
| SK 50 | 32 | 120 | 44 | 53.0 | 62 | 52 | M16x1 | 294.10 | 23278 | |

→ Min. clamping depth, Page 306

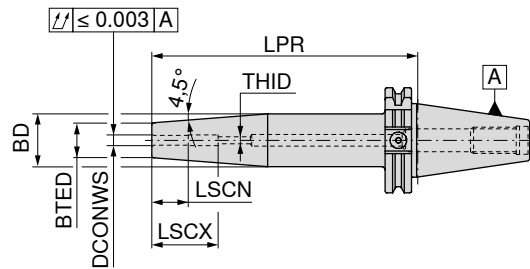
Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without** backstop screw

TG



AD/B
G 2,5 n_{max} 25000

82 310 ...

| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | £ | |
|------------|---------|--------|-----|------|------|------|------|-------|--------|-------|
| | | | | | | | | | Y8/3B | |
| extra-long | SK 40 | 6 | 160 | 21 | 31.0 | 36 | 26 | M5 | 325.95 | 30679 |
| | SK 40 | 8 | 160 | 21 | 32.0 | 36 | 26 | M6 | 325.95 | 30879 |
| | SK 40 | 10 | 160 | 24 | 34.0 | 41 | 31 | M8x1 | 325.95 | 31079 |
| | SK 40 | 12 | 160 | 24 | 34.0 | 47 | 37 | M10x1 | 325.95 | 31279 |
| | SK 40 | 14 | 160 | 27 | 36.0 | 47 | 37 | M10x1 | 325.95 | 31479 |
| | SK 40 | 16 | 160 | 27 | 36.0 | 50 | 40 | M12x1 | 325.95 | 31679 |
| | SK 40 | 18 | 160 | 33 | 44.0 | 50 | 40 | M12x1 | 325.95 | 31879 |
| | SK 40 | 20 | 160 | 33 | 44.0 | 52 | 42 | M16x1 | 325.95 | 32079 |
| | SK 40 | 25 | 160 | 44 | 50.0 | 58 | 48 | M16x1 | 325.95 | 32579 |
| | SK 50 | 6 | 160 | 21 | 27.0 | 36 | 26 | M5 | 326.68 | 30678 |
| | SK 50 | 8 | 160 | 21 | 27.0 | 36 | 26 | M6 | 326.68 | 30878 |
| | SK 50 | 10 | 160 | 24 | 32.0 | 41 | 31 | M8x1 | 326.68 | 31078 |
| | SK 50 | 12 | 160 | 24 | 32.0 | 47 | 37 | M10x1 | 326.68 | 31278 |
| | SK 50 | 14 | 160 | 27 | 34.0 | 47 | 37 | M10x1 | 326.68 | 31478 |
| | SK 50 | 16 | 160 | 27 | 34.0 | 50 | 40 | M12x1 | 326.68 | 31678 |
| | SK 50 | 18 | 160 | 33 | 42.0 | 50 | 40 | M12x1 | 326.68 | 31878 |
| | SK 50 | 20 | 160 | 33 | 42.0 | 52 | 42 | M16x1 | 326.68 | 32078 |
| | SK 50 | 25 | 160 | 44 | 53.0 | 58 | 48 | M16x1 | 326.68 | 32578 |
| | SK 50 | 32 | 160 | 44 | 53.0 | 62 | 52 | M16x1 | 326.68 | 33278 |

→ Min. clamping depth, Page 306



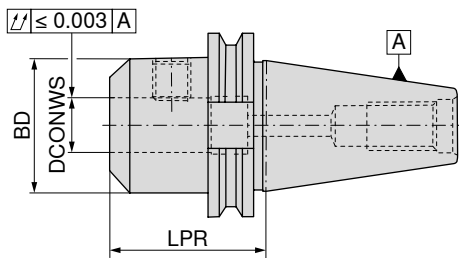
Stop screw IK

Spare parts
DCONWS

| DCONWS | | £ | |
|--------|----------------|-------|-------|
| | | Y8/3B | |
| 6 | M5x16 - SW2,5 | 5.07 | 30000 |
| 8 | M6x16 - SW3 | 5.14 | 30100 |
| 10 | M8x1x16 - SW4 | 5.47 | 30200 |
| 12 | M10x1x14 - SW5 | 5.79 | 30300 |
| 14 | M10x1x14 - SW5 | 5.79 | 30300 |
| 16 | M12x1x16 - SW6 | 6.10 | 30400 |
| 18 | M12x1x16 - SW6 | 6.10 | 30400 |
| 20 | M16x1x16 - SW8 | 6.42 | 30500 |
| 25 | M16x1x16 - SW8 | 6.42 | 30500 |
| 32 | M16x1x16 - SW8 | 6.42 | 30500 |

Cylindrical shank adapter (Weldon)

- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**



AD
G 2,5 n_{max} 25000

82 401 ...

| | Adapter | DCONWS _{H4} mm | LPR mm | BD mm | | |
|--------------------|---------|----------------------------|-----------|----------|--|----------------------------|
| short | SK 30 | 6 | 50 | 25 | | |
| | SK 30 | 8 | 50 | 28 | | |
| | SK 30 | 10 | 50 | 35 | | |
| | SK 30 | 12 | 50 | 42 | | |
| | SK 30 | 14 | 63 | 44 | | |
| | SK 30 | 16 | 63 | 48 | | |
| | SK 30 | 18 | 63 | 50 | | |
| | SK 30 | 20 | 70 | 52 | | |
| extra short | SK 40 | 16 | 35 | 48 | | |
| | SK 40 | 20 | 35 | 50 | | |
| | SK 40 | 25 | 40 | 50 | | |
| | SK 40 | 32 | 75 | 72 | | |
| | | | | | | £ |
| | | | | | | Y8/3B |
| | | | | | | 103.65 00600 |
| | | | | | | 101.05 00800 |
| | | | | | | 101.05 01000 |
| | | | | | | 101.05 01200 |
| | | | | | | 101.05 01400 |
| | | | | | | 101.05 01600 |
| | | | | | | 101.05 01800 |
| | | | | | | 101.05 02000 |
| | | | | | | 156.78 416 |
| | | | | | | 156.78 420 |
| | | | | | | 171.75 425 ¹⁾ |
| | | | | | | 155.69 43200 ¹⁾ |

1) Version with two grub screws

SK 50 adapters and other lengths can be found on the next 2 pages



Spare parts

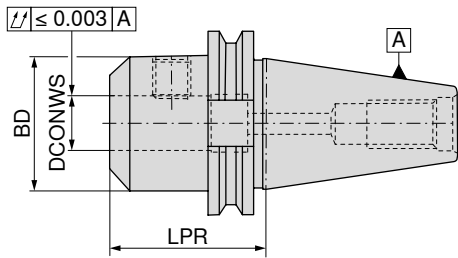
| DCONWS _{H4} | | | £ | | | |
|----------------------|--------|------|--------------|----------|------|-----|
| 6 | | | Y8/3B | | | |
| 8 | | | | | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 25 | M16x10 | 2.08 | 275 | M18x2x20 | 4.27 | 025 |
| 32 | M14x10 | 2.04 | 259 | M20x2x20 | 4.46 | 032 |

Accessories

| | |
|------------|--------|
| | |
| Pull studs | Others |
| → 57, 59 | → 278 |

Cylindrical shank adapter (Weldon)

- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**



AD/B
G 2,5 n_{max} 25000



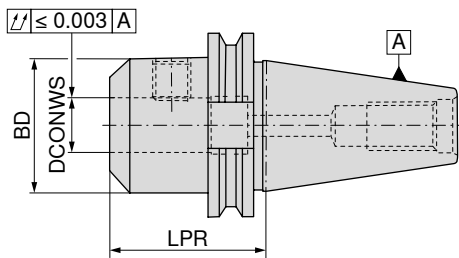
AD/Be
G 2,5 n_{max} 25000

| | Adapter | DCONWS _{H4} mm | LPR mm | BD mm | 82 401 ... | | 82 404 ... | | |
|---------------|---------|----------------------------|-----------|----------|------------|---------------------|------------|---------------------|---------------------|
| | | | | | £ | | £ | | |
| short | SK 40 | 6 | 50 | 25 | 106.76 | 106 | 152.55 | 106 | |
| | SK 40 | 8 | 50 | 28 | 106.76 | 108 | 152.55 | 108 | |
| | SK 40 | 10 | 50 | 35 | 106.76 | 110 | 152.55 | 110 | |
| | SK 40 | 12 | 50 | 42 | 106.76 | 112 | 152.55 | 112 | |
| | SK 40 | 14 | 50 | 44 | 106.76 | 114 | 152.55 | 114 | |
| | SK 40 | 16 | 63 | 48 | 106.76 | 116 | 152.55 | 116 | |
| | SK 40 | 18 | 63 | 50 | 106.76 | 118 | 152.55 | 118 | |
| | SK 40 | 20 | 63 | 52 | 106.76 | 120 | 152.55 | 120 | |
| | SK 40 | 25 | 100 | 65 | 106.76 | 125 ¹⁾ | 152.55 | 125 ¹⁾ | |
| | SK 40 | 32 | 100 | 72 | 122.04 | 132 ¹⁾ | 152.55 | 13200 ¹⁾ | |
| | SK 40 | 40 | 120 | 90 | 106.76 | 14000 ¹⁾ | | | |
| short | SK 50 | 6 | 63 | 25 | 143.98 | 306 | 230.18 | 30600 | |
| | SK 50 | 8 | 63 | 28 | 143.98 | 308 | 230.18 | 30800 | |
| | SK 50 | 10 | 63 | 35 | 138.59 | 310 | 211.99 | 31000 | |
| | SK 50 | 12 | 63 | 42 | 138.59 | 312 | 211.99 | 31200 | |
| | SK 50 | 14 | 63 | 44 | 138.59 | 314 | 211.99 | 31400 | |
| | SK 50 | 16 | 63 | 48 | 138.59 | 316 | 232.11 | 31600 | |
| | SK 50 | 18 | 63 | 50 | 138.59 | 318 | 232.11 | 31800 | |
| | SK 50 | 20 | 63 | 52 | 138.59 | 320 | 232.11 | 32000 | |
| | SK 50 | 25 | 80 | 65 | 152.53 | 325 ¹⁾ | 248.71 | 32500 ¹⁾ | |
| | SK 50 | 32 | 100 | 72 | 154.09 | 332 ¹⁾ | 261.86 | 33200 ¹⁾ | |
| | SK 50 | 40 | 120 | 90 | 160.92 | 34000 ¹⁾ | | | |
| medium length | SK 40 | 6 | 100 | 25 | 114.39 | 506 | 243.36 | 50600 | |
| | SK 40 | 8 | 100 | 28 | 114.39 | 508 | 243.36 | 50800 | |
| | SK 40 | 10 | 100 | 35 | 114.39 | 510 | 233.08 | 51000 | |
| | SK 40 | 12 | 100 | 42 | 114.39 | 512 | 233.08 | 51200 | |
| | SK 40 | 14 | 100 | 44 | 114.39 | 514 | 233.08 | 51400 | |
| | SK 40 | 16 | 100 | 48 | 156.78 | 516 | 265.38 | 51600 | |
| | SK 40 | 18 | 100 | 50 | 114.39 | 518 | 265.38 | 51800 | |
| | SK 40 | 20 | 100 | 52 | 156.78 | 520 | 265.38 | 52000 | |
| | | SK 40 | 40 | 120 | 80 | | | 337.38 | 54000 ¹⁾ |
| | | SK 50 | 6 | 100 | 25 | 231.39 | 70600 | | |
| | SK 50 | 8 | 100 | 28 | 231.39 | 70800 | | | |
| | SK 50 | 10 | 100 | 35 | 222.00 | 71000 | | | |
| | SK 50 | 12 | 100 | 42 | 222.00 | 71200 | | | |
| | SK 50 | 14 | 100 | 44 | 222.00 | 71400 | | | |
| | SK 50 | 16 | 100 | 48 | 223.16 | 71600 | | | |
| | SK 50 | 18 | 100 | 50 | 223.16 | 71800 | | | |
| | SK 50 | 20 | 100 | 52 | 223.16 | 72000 | | | |
| | SK 50 | 25 | 100 | 65 | 236.68 | 72500 ¹⁾ | | | |

1) Version with two grub screws

Cylindrical shank adapter (Weldon)

▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
▲ also available with Balluff chip **on request**



AD/B
G 2,5 n_{max} 25000



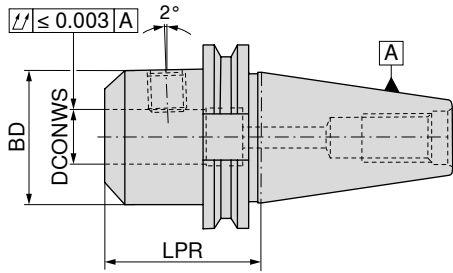
AD/Be
G 2,5 n_{max} 25000

| | Adapter | DCONWS _{H4} mm | LPR mm | BD mm | 82 401 ... | | 82 404 ... | |
|------------|---------|----------------------------|-----------|----------|---------------------|---------------------|---------------------|-------|
| | | | | | £ Y8/3B | | £ Y8/3B | |
| long | SK 40 | 6 | 130 | 25 | 122.04 | 206 | 145.70 | 206 |
| | SK 40 | 8 | 130 | 28 | 122.04 | 208 | 145.70 | 208 |
| | SK 40 | 10 | 130 | 35 | 122.04 | 210 | 140.42 | 210 |
| | SK 40 | 12 | 130 | 42 | 122.04 | 212 | 140.42 | 212 |
| | SK 40 | 14 | 130 | 44 | 122.04 | 214 | 140.42 | 214 |
| | SK 40 | 16 | 130 | 48 | 122.04 | 216 | 150.83 | 216 |
| | SK 40 | 18 | 130 | 50 | 122.04 | 218 | 150.83 | 218 |
| | SK 40 | 20 | 130 | 52 | 122.04 | 220 | 150.83 | 220 |
| | SK 50 | 6 | 130 | 25 | 145.53 | 90600 | 181.47 | 90600 |
| | SK 50 | 8 | 130 | 28 | 145.53 | 90800 | 181.47 | 90800 |
| | SK 50 | 10 | 130 | 35 | 142.54 | 91000 | 178.33 | 91000 |
| | SK 50 | 12 | 130 | 42 | 142.54 | 91200 | 178.33 | 91200 |
| | SK 50 | 14 | 130 | 44 | 142.54 | 91400 | 178.33 | 91400 |
| | SK 50 | 16 | 130 | 48 | 142.95 | 91600 | 188.52 | 91600 |
| SK 50 | 18 | 130 | 50 | 142.95 | 91800 | 188.52 | 91800 | |
| SK 50 | 20 | 130 | 52 | 142.95 | 92000 | 188.52 | 92000 | |
| SK 50 | 25 | 130 | 65 | 146.90 | 92500 ¹⁾ | 192.48 | 92500 ¹⁾ | |
| extra-long | SK 40 | 6 | 160 | 25 | 122.04 | 606 | | |
| | SK 40 | 8 | 160 | 28 | 122.04 | 608 | | |
| | SK 40 | 10 | 160 | 35 | 122.04 | 610 | | |
| | SK 40 | 12 | 160 | 42 | 122.04 | 612 | | |
| | SK 40 | 14 | 160 | 44 | 122.04 | 614 | | |
| | SK 40 | 16 | 160 | 48 | 122.04 | 616 | | |
| | SK 40 | 18 | 160 | 50 | 122.04 | 618 | | |
| | SK 40 | 20 | 160 | 52 | 122.04 | 620 | | |
| | SK 40 | 25 | 160 | 65 | 122.04 | 625 ¹⁾ | | |
| | SK 50 | 6 | 160 | 25 | 236.68 | 80600 | | |
| | SK 50 | 8 | 160 | 28 | 236.68 | 80800 | | |
| | SK 50 | 10 | 160 | 35 | 243.22 | 81000 | | |
| | SK 50 | 12 | 160 | 42 | 243.22 | 81200 | | |
| | SK 50 | 14 | 160 | 44 | 243.22 | 81400 | | |
| | SK 50 | 16 | 160 | 48 | 243.95 | 81600 | | |
| | SK 50 | 18 | 160 | 50 | 243.95 | 81800 | | |
| | SK 50 | 20 | 160 | 52 | 243.95 | 82000 | | |
| | SK 50 | 25 | 160 | 65 | 257.76 | 82500 ¹⁾ | | |
| SK 50 | 32 | 160 | 72 | 261.44 | 83200 ¹⁾ | | | |

1) Version with two grub screws

Cylindrical Shank Adapter (Whistle Notch)

- ▲ For shanks according to DIN 6535 HE / 1835 E with angled clamping flat
- ▲ The groove in the flat face is a characteristic feature of the Whistle Notch version
- ▲ also available with Balluff chip **on request**



AD/B
G 2,5 n_{max} 25000

82 407 ...

| | Adapter | DCONWS _{H4} mm | LPR mm | BD mm | £ | |
|-------|---------|----------------------------|-----------|----------|---------------------|---------------------|
| short | SK 40 | 6 | 50 | 25 | 160.07 | 106 |
| | SK 40 | 8 | 50 | 28 | 160.07 | 108 |
| | SK 40 | 10 | 50 | 35 | 148.25 | 110 |
| | SK 40 | 12 | 50 | 42 | 148.25 | 112 |
| | SK 40 | 14 | 50 | 44 | 148.25 | 114 |
| | SK 40 | 16 | 63 | 48 | 163.33 | 116 |
| | SK 40 | 18 | 63 | 50 | 163.33 | 118 |
| | SK 40 | 20 | 63 | 52 | 163.33 | 120 |
| | SK 40 | 25 | 100 | 65 | 175.08 | 12500 ¹⁾ |
| | SK 40 | 32 | 100 | 72 | 190.74 | 13200 ¹⁾ |
| | SK 50 | 6 | 63 | 25 | 234.03 | 30600 |
| | SK 50 | 8 | 63 | 28 | 234.03 | 30800 |
| | SK 50 | 10 | 63 | 35 | 223.22 | 31000 |
| | SK 50 | 12 | 63 | 42 | 223.22 | 31200 |
| | SK 50 | 14 | 63 | 44 | 223.22 | 31400 |
| | SK 50 | 16 | 63 | 48 | 224.56 | 31600 |
| | SK 50 | 18 | 63 | 50 | 224.56 | 31800 |
| | SK 50 | 20 | 63 | 52 | 224.56 | 32000 |
| SK 50 | 25 | 80 | 65 | 245.44 | 32500 ¹⁾ | |
| SK 50 | 32 | 100 | 72 | 249.86 | 33200 ¹⁾ | |
| long | SK 40 | 6 | 130 | 25 | 170.99 | 206 |
| | SK 40 | 8 | 130 | 28 | 170.99 | 208 |
| | SK 40 | 10 | 130 | 35 | 111.95 | 210 |
| | SK 40 | 12 | 130 | 42 | 111.95 | 212 |
| | SK 40 | 16 | 130 | 48 | 172.05 | 216 |
| | SK 40 | 20 | 130 | 52 | 172.05 | 220 |
| | SK 40 | 25 | 130 | 65 | 205.55 | 225 ¹⁾ |
| | SK 50 | 6 | 130 | 25 | 268.78 | 90600 |
| | SK 50 | 8 | 130 | 28 | 268.78 | 90800 |
| | SK 50 | 10 | 130 | 35 | 258.67 | 91000 |
| | SK 50 | 12 | 130 | 42 | 258.67 | 91200 |
| | SK 50 | 16 | 130 | 48 | 259.93 | 91600 |
| | SK 50 | 20 | 130 | 52 | 259.93 | 92000 |
| | SK 50 | 25 | 130 | 65 | 275.35 | 92500 ¹⁾ |
| | SK 50 | 32 | 130 | 72 | 274.06 | 93200 ¹⁾ |

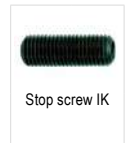
1) Version with two grub screws

Spare parts cylindrical shank adaptors (Weldon) and (Whistle Notch)

| Spare parts DCONWS _{H4} | | 62 950 ... | | 83 950 ... | |
|-------------------------------------|----------|------------|-----|------------|----------|
| | | £ W7 | | £ Y8/3B | |
| 6 | M6x10 | 1.11 | 006 | M5x35 | 3.85 033 |
| 8 | M8x10 | 1.11 | 008 | M6x35 | 2.61 034 |
| 10 | M10x12 | 2.12 | 010 | M8x35 | 2.79 035 |
| 12 - 14 | M12x16 | 1.68 | 012 | M10x35 | 3.80 036 |
| 16 - 18 | M14x16 | 2.08 | 016 | M12x40 | 3.38 037 |
| 20 | M16x16 | 2.21 | 020 | M16x45 | 3.28 272 |
| 25 | M18x2x20 | 4.27 | 025 | M20x35 | 5.81 290 |
| 32 | M20x2x20 | 4.46 | 032 | M20x35 | 5.81 290 |



Grubscrew



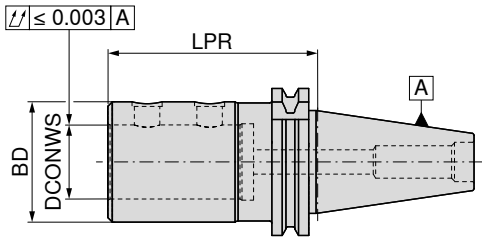
Stop screw IK

Accessories

| | |
|---|---|
|  |  |
| Pull studs | Others |
| → 57, 59 | → 278 |

Indexable insert drill adapter ISO 7388-1 SK

▲ also available with Balluff chip on request



AD/B
G 6,3 n_{max} 15000

10 840 ...

| Adapter | DCONWS mm | LPR mm | BD mm | £ | |
|---------|--------------|-----------|----------|--------|-----|
| SK 40 | 20 | 80 | 40 | 2E/45 | |
| SK 40 | 25 | 85 | 45 | 149.27 | 120 |
| SK 40 | 32 | 90 | 52 | 149.27 | 125 |
| SK 50 | 20 | 80 | 40 | 189.67 | 220 |
| SK 50 | 25 | 85 | 45 | 189.67 | 225 |
| SK 50 | 32 | 90 | 52 | 189.67 | 232 |
| SK 50 | 40 | 90 | 65 | 189.67 | 240 |
| SK 50 | 50 | 100 | 75 | 189.67 | 250 |

Suitable eccentric sleeves can be found in → Chapter 3, Indexable insert drilling.



Grubscrew

10 950 ...

| Spare parts | DCONWS | £ | |
|-------------|----------|-------|-----|
| 20 | M10x1x10 | 2A/28 | 001 |
| 25 - 32 | M12x1x10 | 4.42 | 002 |
| 40 - 50 | M16x1x12 | 4.42 | 003 |

Accessories

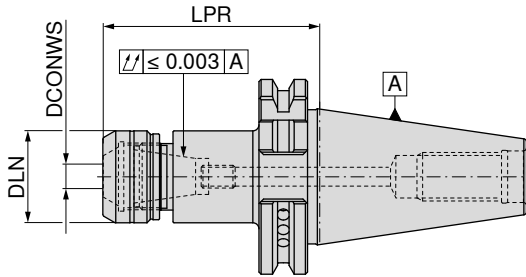
| | |
|----------|-------|
| | |
| → 57, 59 | → 278 |

ER Precision Collet chuck – PCC

- ▲ For standard or sealing disc lock nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 100$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with lock nut and backstop screw



AD/B
G 2,5 n_{max} 25000

82 700 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | for collet | £ Y8 | |
|---------|--------------|-----------|-----------|-------------|---------|-------|
| SK 40 | 1 - 10 | 70 | 30 | 426E (ER16) | 216.56 | 11079 |
| SK 40 | 1 - 10 | 100 | 30 | 426E (ER16) | 311.96 | 21079 |
| SK 40 | 2 - 16 | 70 | 40 | 430E (ER25) | 216.56 | 11679 |
| SK 40 | 2 - 16 | 100 | 40 | 430E (ER25) | 311.96 | 21679 |
| SK 40 | 2 - 20 | 70 | 50 | 470E (ER32) | 216.56 | 12079 |
| SK 40 | 2 - 20 | 100 | 50 | 470E (ER32) | 311.96 | 22079 |
| SK 50 | 2 - 16 | 70 | 40 | 430E (ER25) | 407.99 | 11678 |
| SK 50 | 2 - 16 | 100 | 40 | 430E (ER25) | 506.68 | 21678 |
| SK 50 | 2 - 20 | 70 | 50 | 470E (ER32) | 407.99 | 12078 |
| SK 50 | 2 - 20 | 100 | 50 | 470E (ER32) | 506.68 | 22078 |

Dimension LPR is 4.5 mm longer for ER16 and ER32 and 5.0 mm longer for ER25 when using thro' coolant lock nut

Spare parts for collet

| Part | £ | Part | £ | Part | £ | Part | £ |
|-------------|-------|-------|-------|-------|-------|-------|------|
| 426E (ER16) | 82.32 | 11000 | 77.57 | 01000 | 10.55 | 00200 | 7.75 |
| 430E (ER25) | 82.32 | 11600 | 77.57 | 01600 | 10.55 | 00200 | 7.75 |
| 470E (ER32) | 82.32 | 12000 | 77.57 | 02000 | 10.55 | 00200 | 7.75 |

Accessories

| | | |
|--------------------|--------------|----------|
| | | |
| ER collet | Sealing ring | Roll key |
| → 262-270, 272-273 | → 275 | → 280 |

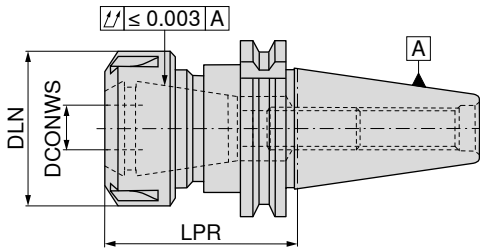
| | | | |
|-------------------|-------------------|----------------------|----------------------|
| | | | |
| Lock nut IK | Lock nut | Backstop screw PCC 2 | Backstop screw PCC 1 |
| 82 950 ... | 82 950 ... | 82 950 ... | 82 950 ... |
| £ Y8 | £ Y8 | £ Y8 | £ Y8 |

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop











AD
G 2,5 n_{max} 25000




AD/B
G 2,5 n_{max} 25000





| | Adapter | DCONWS mm | LPR mm | DLN mm | TQX Nm | for collet | AD | | AD/B | |
|---------------|---------|--------------|-----------|-----------|-----------|------------------|--------|-------|--------|-------|
| | | | | | | | £ | | £ | |
| short | SK 30 | 1 - 10 | 70 | 32 | 8 - 56 | 426E (ER16) | 135.95 | 01000 | | |
| | SK 30 | 1 - 16 | 70 | 42 | 24 - 104 | 430E (ER25) | 135.95 | 01600 | | |
| | SK 30 | 2 - 20 | 70 | 50 | 24 - 136 | 470E (ER32) | 132.00 | 02000 | | |
| | SK 40 | 1 - 10 | 60 | 22 | 8 - 56 | 426E (ER16 mini) | | | 195.87 | 11179 |
| | SK 40 | 1 - 10 | 60 | 32 | 8 - 56 | 426E (ER16) | | | 106.76 | 110 |
| | SK 40 | 1 - 16 | 70 | 42 | 24 - 104 | 430E (ER25) | | | 111.95 | 116 |
| | SK 40 | 2 - 20 | 70 | 50 | 24 - 136 | 470E (ER32) | | | 111.95 | 120 |
| | SK 40 | 3 - 26 | 70 | 63 | 176 | 472E (ER40) | | | 118.18 | 126 |
| | SK 50 | 1 - 10 | 60 | 32 | 8 - 56 | 426E (ER16) | | | 225.77 | 31000 |
| | SK 50 | 1 - 16 | 70 | 42 | 24 - 104 | 430E (ER25) | | | 179.85 | 31600 |
| | SK 50 | 2 - 20 | 70 | 50 | 24 - 136 | 470E (ER32) | | | 181.42 | 32000 |
| | SK 50 | 3 - 26 | 70 | 63 | 176 | 472E (ER40) | | | 185.13 | 32600 |
| medium length | SK 30 | 1 - 10 | 100 | 32 | 8 - 56 | 426E (ER16) | 159.86 | 21000 | | |
| | SK 30 | 1 - 16 | 100 | 42 | 24 - 104 | 430E (ER25) | 159.86 | 21600 | | |
| | SK 30 | 2 - 20 | 100 | 50 | 24 - 136 | 470E (ER32) | 135.95 | 22000 | | |
| | SK 40 | 1 - 10 | 120 | 22 | 8 - 56 | 426E (ER16 mini) | | | 195.87 | 21179 |
| | SK 40 | 1 - 10 | 120 | 32 | 8 - 56 | 426E (ER16) | | | 122.04 | 410 |
| | SK 40 | 1 - 16 | 120 | 42 | 24 - 104 | 430E (ER25) | | | 122.04 | 416 |
| | SK 40 | 2 - 20 | 120 | 50 | 24 - 136 | 470E (ER32) | | | 122.04 | 420 |
| | SK 40 | 3 - 26 | 100 | 63 | 176 | 472E (ER40) | | | 276.06 | 42600 |
| | SK 50 | 1 - 10 | 100 | 32 | 8 - 56 | 426E (ER16) | | | 218.61 | 71000 |
| | SK 50 | 1 - 16 | 100 | 42 | 24 - 104 | 430E (ER25) | | | 232.67 | 71600 |
| | SK 50 | 2 - 20 | 100 | 50 | 24 - 136 | 470E (ER32) | | | 248.19 | 72000 |
| | SK 50 | 3 - 26 | 100 | 63 | 176 | 472E (ER40) | | | 259.73 | 72600 |
| extra-long | SK 40 | 1 - 10 | 160 | 32 | 8 - 56 | 426E (ER16) | | | 187.12 | 61000 |
| | SK 40 | 2 - 16 | 160 | 42 | 24 - 104 | 430E (ER25) | | | 280.74 | 61600 |
| | SK 40 | 2 - 20 | 160 | 50 | 24 - 136 | 470E (ER32) | | | 309.54 | 62000 |
| | SK 40 | 3 - 26 | 160 | 63 | 176 | 472E (ER40) | | | 195.00 | 62600 |
| | SK 50 | 1 - 16 | 160 | 42 | 24 - 104 | 430E (ER25) | | | 253.62 | 81600 |
| | SK 50 | 2 - 20 | 160 | 50 | 24 - 136 | 470E (ER32) | | | 280.96 | 82000 |

Spare parts ER collet chucks

| |  |  |  |  |  |  |  |  |
|------------------------|---|---|---|---|--|---|---|---|
| | 83 950 ... | 62 950 ... | 83 357 ... | 83 950 ... | 62 950 ... | 83 950 ... | 82 950 ... | 83 950 ... |
| Spare parts for collet | £ Y8 | £ W7/6B | £ Y8 | £ Y8 | £ W7 | £ Y8 | £ Y8/3B | £ Y8/3B |
| 426E (ER16 mini) | | | | 47.39 | 101 | | 5.07 | 30000 |
| 426E (ER16) | 82.98 | 25.64 | 28.20 | | 44.48 | 107.02 | | |
| 430E (ER25) | 96.66 | 26.70 | 28.20 | | | | | 3.38 |
| 470E (ER32) | 103.38 | 27.37 | 41.07 | | | | | 3.38 |
| 472E (ER40) | 124.40 | 28.36 | 46.52 | | | | | 3.28 |
| | 054 | 054 | 116 | | 066 | 058 | | 010 |
| | | 055 | 125 | | | | | 010 |
| | | 056 | 132 | | | | | 010 |
| | | 057 | 140 | | | | | 011 |

 Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts

Accessories

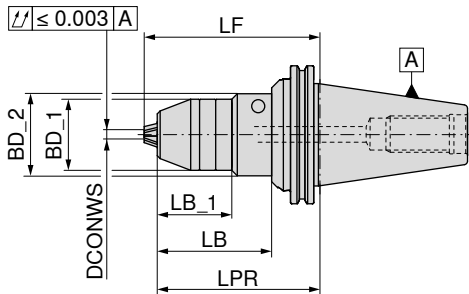
|  |  |  |  |
|---|---|---|---|
| ER collet | Sealing ring | Pull studs | Others |
| → 265, 267-270, 272 | → 274 | → 57, 59 | → 278 |

Short drill chuck – NC 2010

- ▲ Independent of direction of rotation
- ▲ Torque Moment = 12 Nm
- ▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder including clamping key SW4



A
G 6,3 n_{max} 10000



AD
G 6,3 n_{max} 10000

| Adapter | DCONWS mm | LPR mm | BD_1 mm | BD_2 mm | LB_1 mm | LB mm | LF mm | 84 418 ... | | 84 419 ... | |
|---------|--------------|-----------|------------|------------|------------|----------|----------|------------|-----|------------|-----|
| | | | | | | | | £ Y8 | | £ Y8 | |
| SK 30 | 0,5 - 10 | 80 | 43.0 | | | 59.9 | 89.0 | 536.37 | 313 | | |
| SK 40 | 0,5 - 13 | 80 | 48.5 | | | 60.8 | 89.0 | 536.37 | 413 | 486.62 | 413 |
| SK 40 | 2,5 - 16 | 80 | 51.0 | | | 60.0 | 90.5 | | | 477.87 | 416 |
| SK 40 | 2,5 - 16 | 80 | 51.0 | | | 60.8 | 90.5 | 444.48 | 416 | | |
| SK 50 | 0,5 - 13 | 110 | 48.5 | 56 | 50.9 | 78.0 | 119.0 | | | 724.35 | 513 |
| SK 50 | 0,5 - 13 | 110 | 48.5 | 56 | 50.9 | 78.1 | 119.0 | 632.47 | 513 | | |
| SK 50 | 2,5 - 16 | 110 | 51.0 | 56 | 50.9 | 78.0 | 120.5 | | | 665.84 | 516 |
| SK 50 | 2,5 - 16 | 110 | 56.0 | | 50.9 | 78.0 | 120.5 | 632.47 | 516 | | |

Can be used at G 2.5 to 30,000 1/min after additional balancing !

Accessories



Others

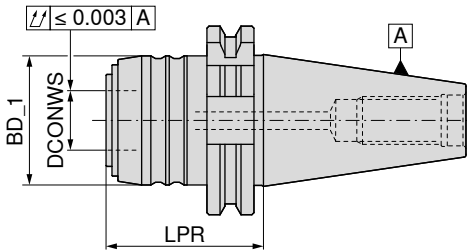
→ 278

Synchro tapping chuck with minimum length compensation

- ▲ For collet
- ▲ With length compensation under tension and compression (LZD)
- ▲ for synchro use
- ▲ $p_{max.} = 50$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Without insert





AD

83 416 ...

| Adapter | cutting range | SZID | LPR mm | BD_1 mm | DCONWS mm | LZD± mm | £ | |
|---------|---------------|------|-----------|------------|--------------|------------|--------|-----|
| SK 40 | M3 - M12 | 1 | 53 | 43 | 20 | 1,0 / 0,2 | 346.27 | 012 |
| SK 40 | M6 - M20 | 2 | 90 | 60 | 32 | 1,0 / 0,2 | 449.17 | 020 |
| SK 50 | M3 - M12 | 1 | 53 | 43 | 20 | 1,0 / 0,2 | 376.14 | 112 |
| SK 50 | M6 - M20 | 2 | 74 | 60 | 32 | 1,0 / 0,2 | 582.18 | 120 |

Accessories

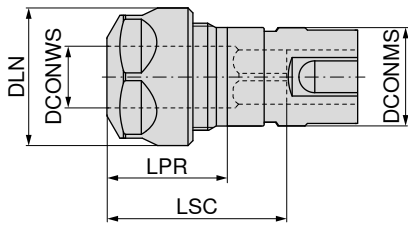
| | |
|---|---|
|  |  |
| Pull studs | Others |
| → 57, 59 | → 278 |

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



| SZID | DCONWS mm | cutting range | LPR mm | DLN mm | LSC mm | for collet | DCONMS mm | 83 608 ... | |
|------|-----------|---------------|--------|--------|--------|-------------|-----------|------------|-------------------|
| 1 | 2 - 10 | M3 - M12 | 24 | 28 | 42 | 426E (ER16) | 20 | £ Y8 | |
| 2 | 2 - 16 | M6 - M20 | 28 | 42 | 59 | 430E (ER25) | 32 | 236.04 | 012 ¹⁾ |
| | | | | | | | | 274.95 | 020 |

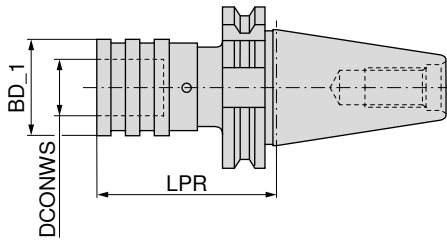
1) with 6 position lock nut

Spare parts for synchronous tapping chucks

| Spare parts for Article no. | Lock nut | | Lock nut IK | | Lock nut | | Y clamping key | | | |
|-----------------------------|----------|----------------|-------------|--|------------|-----|----------------|-----|------------|-----|
| | £ | | £ | | £ | | £ | | | |
| 83 608 012 | | M22x1,5 - SW25 | 62 950 ... | | 83 950 ... | | 62 950 ... | | 83 357 ... | |
| 83 608 020 | 32.23 | | 044 | | 82.98 | 054 | 25.64 | 054 | 28.20 | 116 |
| | | M32x1,5 | | | 96.66 | 055 | 26.70 | 055 | 28.20 | 125 |

Quick change tap chuck with length compensation

- ▲ With length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip **on request**



A

83 428 ...

| Adapter | cutting range | SZID | LPR mm | BD_1 mm | DCONWS mm | LZD± mm | £ Y8 | |
|---------|---------------|------|-----------|------------|--------------|------------|---------|-----|
| SK 30 | M3 - M12 | 01 | 60 | 38 | 19 | 9 | 585.68 | 312 |
| SK 30 | M6 - M20 | 02 | 101 | 55 | 31 | 15 | 665.40 | 320 |
| SK 40 | M3 - M12 | 01 | 60 | 38 | 19 | 9 | 452.32 | 412 |
| SK 40 | M6 - M20 | 02 | 100 | 55 | 31 | 15 | 490.14 | 420 |
| SK 50 | M3 - M12 | 01 | 62 | 38 | 19 | 9 | 675.54 | 512 |
| SK 50 | M6 - M20 | 02 | 83 | 55 | 31 | 15 | 731.76 | 520 |

Accessories

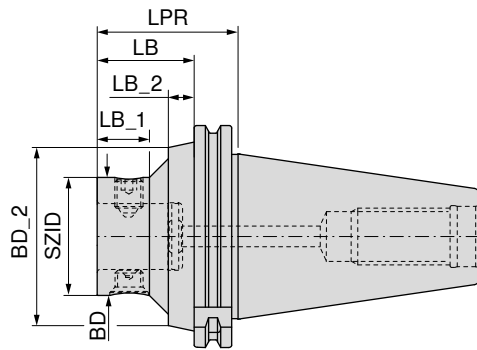
| | | |
|---|---|---|
|  |  |  |
| Collet | Pull studs | Others |
| → 282, 284–286 | → 57, 59 | → 278 |

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc



AD/B
G 6,3 n_{max} 8000

84 201 ...

| Adapter | KOMET no. | SZID | BD | LPR | LB | LB_1 | LB_2 | BD_2 | |
|---------|-----------|---------|----|-----|------|------|------|------|----------------|
| | | | mm | mm | mm | mm | mm | mm | |
| SK 40 | A50 55120 | ABS 25 | | 50 | 30.9 | 20.0 | 7.9 | 50 | £ 225.31 04090 |
| SK 40 | A50 55130 | ABS 32 | | 50 | 30.9 | 20.0 | 7.9 | 50 | £ 225.31 04089 |
| SK 40 | A50 55140 | ABS 40 | | 50 | 30.9 | 20.0 | | 50 | £ 225.31 04088 |
| SK 40 | A50 55150 | ABS 50 | 50 | 50 | 30.9 | | | | £ 225.31 04097 |
| SK 40 | A50 55160 | ABS 63 | | 90 | 70.9 | | 15.9 | 50 | £ 225.31 04096 |
| SK 50 | A50 55320 | ABS 25 | | 60 | 40.9 | 20.0 | 12.9 | 80 | £ 254.07 05090 |
| SK 50 | A50 55330 | ABS 32 | | 60 | 40.9 | 20.0 | 12.9 | 80 | £ 254.07 05089 |
| SK 50 | A50 55340 | ABS 40 | | 60 | 40.9 | 20.0 | 12.9 | 80 | £ 254.07 05088 |
| SK 50 | A50 55350 | ABS 50 | | 60 | 40.9 | 22.0 | 10.9 | 80 | £ 254.07 05097 |
| SK 50 | A50 55360 | ABS 63 | | 60 | 40.9 | 30.4 | 7.3 | 80 | £ 254.07 05096 |
| SK 50 | A50 55370 | ABS 80 | 80 | 70 | 50.9 | | | | £ 254.07 05092 |
| SK 50 | A50 55380 | ABS 100 | | 115 | 95.9 | | 15.9 | 80 | £ 254.07 05091 |

Conversion kit – Cooling agent supply



84 950 ...

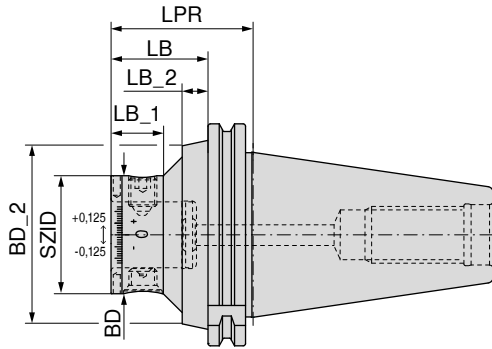
| for | Adapter | £ | |
|------|---------|------|-------|
| 4 mm | SK 40 | 6.96 | 23200 |
| 6 mm | SK 50 | 6.96 | 23400 |

Eccentric adjuster with ABS Connection

- ▲ Adjustment ± 0.25 mm on diameter
- ▲ also available with Balluff chip **on request**

Scope of supply:

Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc



AD/B

84 204 ...

£
W4/6A
607.16 04097
781.53 04096

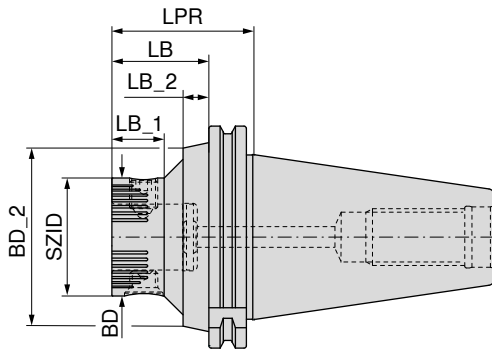
| Adapter | KOMET no. | SZID | BD | LPR | LB | LB_1 | LB_2 | BD_2 |
|---------|-----------|--------|----|-----|------|------|------|------|
| | | | mm | mm | mm | mm | mm | mm |
| SK 40 | A50 56150 | ABS 50 | 50 | 50 | 30.9 | | | |
| SK 40 | A50 56160 | ABS 63 | | 90 | 70.9 | | 15.9 | 50 |
| SK 50 | A50 56350 | ABS 50 | | 60 | 40.9 | 22.0 | 10.9 | 80 |
| SK 50 | A50 56360 | ABS 63 | | 60 | 40.9 | 30.4 | 7.3 | 80 |

Torsional vibration dampers with ABS Connection

- ▲ also available with Balluff chip **on request**

Scope of supply:

Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc



AD/B

84 207 ...

£
3E
618.21 04097
736.12 04096

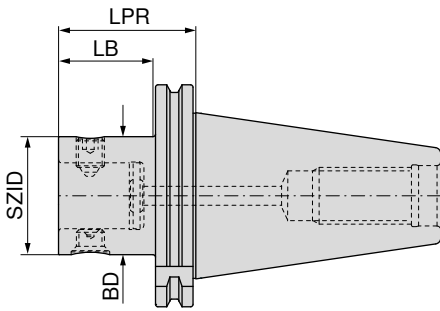
| Adapter | KOMET no. | SZID | BD | LPR | BD_2 | LB | LB_1 | LB_2 |
|---------|-----------|--------|----|-----|------|------|------|------|
| | | | mm | mm | mm | mm | mm | mm |
| SK 40 | A50 01351 | ABS 50 | 50 | 50 | | 30.9 | | |
| SK 40 | A50 01361 | ABS 63 | | 90 | 50 | 70.9 | | 15.9 |
| SK 50 | A50 01451 | ABS 50 | | 60 | 80 | 40.9 | 22.0 | 10.9 |
| SK 50 | A50 01461 | ABS 63 | | 60 | 80 | 40.9 | 30.4 | 7.3 |
| SK 50 | A50 01470 | ABS 80 | 80 | 70 | | 50.9 | | |

738.70 05097
767.56 05096
854.03 05092

Adapter with ABS Connection – SK-FC

▲ with face contact

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

| |
|-------------------|
| 84 264 ... |
| £ |
| Y8 |
| 1,571.33 05073 |
| 1,613.47 06373 |
| 1,638.08 08073 |
| 1,655.82 10073 |

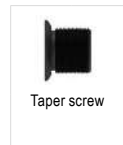
| Adapter | SZID | BD mm | LPR mm | LB mm |
|----------|---------|----------|-----------|----------|
| SK-FC 50 | ABS 50 | 50 | 60 | 40.9 |
| SK-FC 50 | ABS 63 | 63 | 60 | 40.9 |
| SK-FC 50 | ABS 80 | 80 | 70 | 50.9 |
| SK-FC 50 | ABS 100 | 100 | 115 | 95.9 |



Clamping screw

84 950 ...

| | |
|----|--|
| £ | |
| XX | |



Taper screw

84 950 ...

| | |
|----|--|
| £ | |
| XX | |

Spare parts

SZID

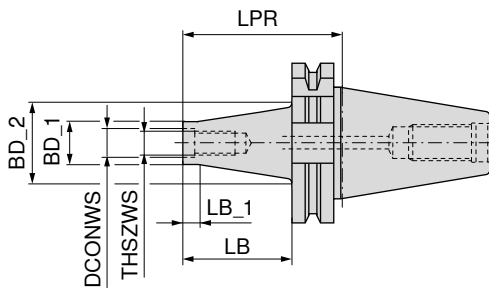
| | | | | |
|---------|-------|-------|-------|-------|
| ABS 50 | 10.95 | 20300 | 13.91 | 20400 |
| ABS 63 | 10.42 | 25500 | 13.22 | 27300 |
| ABS 80 | 12.82 | 25600 | 15.60 | 25100 |
| ABS 100 | 15.79 | 25700 | 17.32 | 25200 |

Accessories

| | | |
|---|---|---|
|  |  |  |
| Pull studs | Extension | Others |
| → 57, 59 | → 183 | → 278 |

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000



AD
G 16 n_{max} 8000

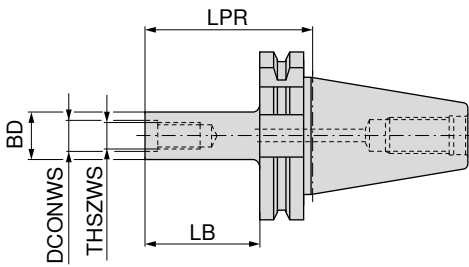
| Adapter | THSZWS | DCONWS | LB | BD_1 | BD_2 | LB_1 | LPR | 56 705 ... | | 56 707 ... | |
|---------|--------|--------|-----|------|------|------|-----|------------|-----|------------|-----|
| | | | | | | | | £ | WA | £ | WA |
| SK 40 | M8 | 8.5 | 25 | 13.8 | 15 | 12 | 44 | 245.24 | 081 | | |
| SK 40 | M8 | 8.5 | 50 | 13.8 | 23 | 12 | 69 | 251.24 | 082 | | |
| SK 40 | M8 | 8.5 | 75 | 13.8 | 25 | 12 | 94 | 257.05 | 083 | | |
| SK 40 | M10 | 10.5 | 25 | 18.0 | 23 | 12 | 44 | 245.24 | 101 | | |
| SK 40 | M10 | 10.5 | 50 | 18.0 | 25 | 12 | 69 | 251.24 | 102 | | |
| SK 40 | M10 | 10.5 | 75 | 18.0 | 30 | 12 | 94 | 257.05 | 103 | | |
| SK 40 | M10 | 10.5 | 100 | 18.0 | 35 | 12 | 119 | 263.03 | 104 | | |
| SK 40 | M12 | 12.5 | 25 | 21.0 | 24 | 12 | 44 | 245.24 | 121 | | |
| SK 40 | M12 | 12.5 | 50 | 21.0 | 30 | 12 | 69 | 251.24 | 122 | | |
| SK 40 | M12 | 12.5 | 75 | 21.0 | 35 | 12 | 94 | 257.05 | 123 | | |
| SK 40 | M12 | 12.5 | 100 | 21.0 | 38 | 12 | 119 | 263.03 | 124 | | |
| SK 40 | M16 | 17.0 | 25 | 29.0 | 29 | 12 | 44 | 245.24 | 161 | | |
| SK 40 | M16 | 17.0 | 50 | 29.0 | 34 | 12 | 69 | 251.24 | 162 | | |
| SK 40 | M16 | 17.0 | 75 | 29.0 | 35 | 12 | 94 | 257.05 | 163 | | |
| SK 40 | M16 | 17.0 | 100 | 29.0 | 40 | 12 | 119 | 263.03 | 164 | | |
| SK 40 | M16 | 17.0 | 125 | 29.0 | 44 | 12 | 144 | 268.80 | 165 | | |
| SK 40 | M16 | 17.0 | 150 | 29.0 | 48 | 12 | 169 | 274.81 | 166 | | |
| SK 40 | M16 | 17.0 | 200 | 29.0 | 50 | 12 | 219 | 286.61 | 167 | | |
| SK 50 | M12 | 12.5 | 50 | 21.0 | 30 | 12 | 69 | | | 348.06 | 122 |
| SK 50 | M12 | 12.5 | 100 | 21.0 | 38 | 12 | 119 | | | 359.84 | 124 |
| SK 50 | M12 | 12.5 | 150 | 21.0 | 52 | 12 | 169 | | | 371.62 | 126 |
| SK 50 | M16 | 17.0 | 50 | 29.0 | 34 | 12 | 69 | | | 348.06 | 162 |
| SK 50 | M16 | 17.0 | 100 | 29.0 | 40 | 12 | 119 | | | 353.84 | 164 |
| SK 50 | M16 | 17.0 | 150 | 29.0 | 48 | 12 | 169 | | | 365.64 | 166 |
| SK 50 | M16 | 17.0 | 200 | 29.0 | 58 | 12 | 219 | | | 377.42 | 167 |
| SK 50 | M16 | 17.0 | 250 | 29.0 | 62 | 12 | 269 | | | 389.41 | 168 |

Accessories

| | | |
|----------------------------------|------------------------|-----------------|
| | | |
| Extension-Reduction set → 251 | Pull studs → 57, 59 | Others → 278 |

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 709 ...

| Adapter | THSZWS | DCONWS | LB | BD | LPR | £ | WA |
|---------|--------|--------|-----|------|-----|--------|-----|
| SK 40 | M8 | 8.5 | 50 | 13.8 | 69 | 266.88 | 082 |
| SK 40 | M10 | 10.5 | 50 | 18.0 | 69 | 266.88 | 102 |
| SK 40 | M10 | 10.5 | 75 | 18.0 | 94 | 272.87 | 103 |
| SK 40 | M10 | 10.5 | 100 | 18.0 | 119 | 278.88 | 104 |
| SK 40 | M12 | 12.5 | 50 | 21.0 | 69 | 266.88 | 122 |
| SK 40 | M12 | 12.5 | 75 | 21.0 | 94 | 272.87 | 123 |
| SK 40 | M12 | 12.5 | 100 | 21.0 | 119 | 278.88 | 124 |
| SK 40 | M16 | 17.0 | 50 | 29.0 | 69 | 266.88 | 162 |
| SK 40 | M16 | 17.0 | 75 | 29.0 | 94 | 272.87 | 163 |
| SK 40 | M16 | 17.0 | 100 | 29.0 | 119 | 278.88 | 164 |

Accessories

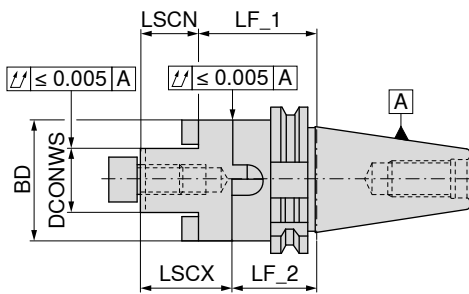
| | | |
|----------------------------------|------------------------|-----------------|
| | | |
| Extension-Reduction set → 251 | Pull studs → 57, 59 | Others → 278 |

Combination shell mill adapter

- ▲ For milling cutters with transverse or longitudinal groove according to DIN 6358
- ▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



A
G 2,5 n_{max} 25000

| |
|-------------------|
| 82 429 ... |
| £ |
| Y8/3B |
| 134.64 01600 |
| 134.64 02200 |
| 161.20 02700 |
| 169.32 03200 |

| | Adapter | DCONWS | LF_1 | BD | LSCX | LSCN | LF_2 | | |
|---------------|---------|--------|------|----|------|------|------|--|--|
| | | mm | mm | mm | mm | mm | mm | | |
| short | SK 30 | 16 | 50 | 32 | 27 | 17 | 40 | | |
| | SK 30 | 22 | 50 | 40 | 31 | 19 | 38 | | |
| | SK 30 | 27 | 55 | 48 | 33 | 21 | 43 | | |
| | SK 30 | 32 | 60 | 58 | 38 | 24 | 46 | | |
| | SK 40 | 16 | 55 | 32 | 27 | 17 | 45 | | |
| | SK 40 | 22 | 55 | 40 | 31 | 19 | 43 | | |
| | SK 40 | 27 | 55 | 48 | 33 | 21 | 43 | | |
| | SK 40 | 32 | 60 | 58 | 38 | 24 | 46 | | |
| | SK 40 | 40 | 60 | 70 | 41 | 27 | 46 | | |
| | SK 50 | 16 | 55 | 32 | 27 | 17 | 45 | | |
| | SK 50 | 22 | 55 | 40 | 31 | 19 | 43 | | |
| | SK 50 | 27 | 55 | 48 | 33 | 21 | 43 | | |
| SK 50 | 32 | 55 | 58 | 38 | 24 | 41 | | | |
| SK 50 | 40 | 55 | 70 | 41 | 27 | 41 | | | |
| SK 50 | 50 | 70 | 90 | 46 | 30 | 54 | | | |
| medium length | SK 40 | 16 | 100 | 32 | 27 | 17 | 90 | | |
| | SK 40 | 22 | 100 | 40 | 31 | 19 | 88 | | |
| | SK 40 | 27 | 100 | 48 | 33 | 21 | 88 | | |
| | SK 40 | 32 | 100 | 58 | 38 | 24 | 86 | | |
| | SK 40 | 40 | 100 | 70 | 41 | 27 | 86 | | |

1) With cross screw



| Spare parts | 83 950 ... | | 83 370 ... | | 83 368 ... | | 83 367 ... | | 83 950 ... | |
|-------------|------------|----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| | £ | | £ | | £ | | £ | | £ | |
| DCONWS | Y8/3B | | Y8 | | Y8 | | Y8 | | Y8/3B | |
| 16 | | 4.17 284 | | 15.42 116 | | 25.47 116 | | 6.77 016 | | 7.18 113 |
| 22 | | 4.17 285 | | 14.79 122 | | 31.70 122 | M10 | 7.53 022 | | 8.10 124 |
| 27 | | 6.62 286 | | 18.45 127 | | 37.27 127 | M12 | 9.63 027 | | 8.95 125 |
| 32 | | 4.72 287 | | 19.36 132 | | 50.79 132 | M16 | 15.12 032 | | 10.90 126 |
| 40 | | 5.57 288 | | 32.61 140 | | 50.45 140 | M20 | 16.18 040 | | 12.02 112 |
| 50 | | 5.57 289 | | 65.61 150 | | 71.90 150 | M24 | 41.15 050 | | |

Accessories

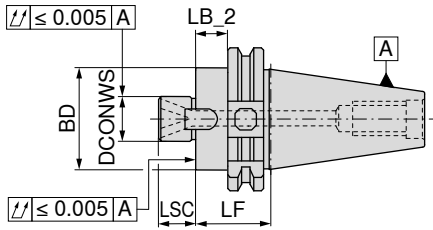
| | | |
|------------|-----------------------|--------|
| | | |
| Pull studs | Milling Adapter Rings | Others |
| → 57, 59 | → 257 | → 278 |

Shell mill adapter with reduced flange diameter

- ▲ Screwed drive dogs
- ▲ also available with Balluff chip on request

Scope of supply:

Base body with retaining screw and drive dog



NEW



AD
G 2,5 n_{max} 25000

82 315 ...

| | |
|--------|--------------|
| £ | |
| Y8/3B | 117.76 12279 |
| 114.82 | 12779 |
| 162.03 | 12278 |
| 164.82 | 12778 |

| Adapter | DCONWS mm | LB_2 mm | LF mm | BD mm | LSC mm |
|---------|--------------|------------|----------|----------|-----------|
| SK 40 | 22 | 41 | 60 | 38 | 19 |
| SK 40 | 27 | 25 | 44 | 48 | 21 |
| SK 50 | 22 | 41 | 60 | 38 | 19 |
| SK 50 | 27 | 25 | 44 | 48 | 21 |

i These shell mill adapters have been specially developed for MaxiMill 211-KN porcupine cutters. Now they can be clamped perfectly, thanks to the adapted flange diameters.



Screw for drivers



Driver



clamping screw

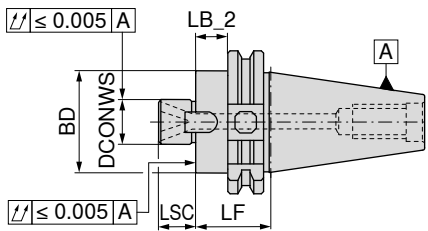
| Spare parts | | | 83 950 ... | | 83 950 ... | | 83 950 ... |
|-------------|------|------------|------------|-------------|------------|----------|------------|
| DCONWS | | | £ | | £ | | £ |
| 22 | M4x8 | 0.76 51700 | 10x7x20,5 | 10.73 51500 | M10x25 | 8.10 124 | |
| 27 | M5x8 | 0.93 51800 | 12x9x24,3 | 12.23 51600 | M12x30 | 8.95 125 | |

Shell mill adapter

- ▲ Screwed drive dogs
- ▲ also available with Balluff chip on request

Scope of supply:

Toolholder with clamping screw



A



AD/B

G 2,5 n_{max} 25000

G 2,5 n_{max} 25000

| | Adapter | DCONWS mm | LB_2 mm | LF mm | BD mm | LSC mm | 82 428 ... | | |
|---------------|---------|--------------|------------|----------|----------|-----------|------------|-------------------|-------------------|
| | | | | | | | £ Y8/3B | £ Y8/3B | |
| short | SK 30 | 16 | 21.0 | 40 | 38 | 17 | 129.36 | 01600 | |
| | SK 30 | 22 | 14.6 | 50 | 48 | 19 | 129.36 | 02200 | |
| | SK 30 | 27 | 19.3 | 55 | 58 | 21 | 151.97 | 02700 | |
| | SK 30 | 32 | 31.0 | 50 | 78 | 24 | 160.77 | 03200 | |
| | SK 40 | 16 | 25.0 | 44 | 38 | 17 | | 138.59 | 116 |
| | SK 40 | 22 | 25.0 | 44 | 48 | 19 | | 150.80 | 122 |
| | SK 40 | 27 | 36.0 | 55 | 58 | 21 | | 152.53 | 127 |
| | SK 40 | 32 | 31.0 | 50 | 78 | 24 | | 160.92 | 132 |
| | SK 40 | 40 | 31.0 | 50 | 88 | 27 | | 174.88 | 140 ¹⁾ |
| | SK 50 | 16 | 25.0 | 44 | 38 | 17 | | 203.66 | 316 |
| SK 50 | 22 | 25.0 | 44 | 48 | 19 | | 210.46 | 322 | |
| SK 50 | 27 | 25.0 | 44 | 58 | 21 | | 215.47 | 327 | |
| SK 50 | 32 | 21.0 | 40 | 78 | 24 | | 234.82 | 332 | |
| SK 50 | 40 | 31.0 | 50 | 88 | 27 | | 239.66 | 340 ¹⁾ | |
| medium length | SK 40 | 16 | 81.0 | 100 | 38 | 17 | | 148.93 | 416 |
| | SK 40 | 22 | 81.0 | 100 | 48 | 19 | | 157.50 | 422 |
| | SK 40 | 27 | 81.0 | 100 | 58 | 21 | | 160.92 | 427 |
| | SK 40 | 32 | 81.0 | 100 | 78 | 24 | | 169.47 | 432 |
| | SK 40 | 40 | 81.0 | 100 | 88 | 27 | | 179.85 | 440 ¹⁾ |
| | SK 50 | 16 | 81.0 | 100 | 38 | 17 | | 284.93 | 616 |
| | SK 50 | 22 | 81.0 | 100 | 48 | 19 | | 291.06 | 622 |
| | SK 50 | 27 | 81.0 | 100 | 58 | 21 | | 299.47 | 627 |
| | SK 50 | 32 | 81.0 | 100 | 78 | 24 | | 308.45 | 632 |
| | SK 50 | 40 | 81.0 | 100 | 88 | 27 | | 314.40 | 640 ¹⁾ |
| long | SK 40 | 16 | 111.0 | 130 | 38 | 17 | | 157.83 | 816 |
| | SK 40 | 22 | 111.0 | 130 | 48 | 19 | | 162.99 | 822 |
| | SK 40 | 27 | 111.0 | 130 | 58 | 21 | | 165.50 | 827 |
| | SK 40 | 32 | 111.0 | 130 | 78 | 24 | | 173.43 | 832 |
| | SK 40 | 40 | 111.0 | 130 | 88 | 27 | | 181.13 | 840 ¹⁾ |
| | SK 50 | 16 | 111.0 | 130 | 38 | 17 | | 250.03 | 916 |
| | SK 50 | 22 | 111.0 | 130 | 48 | 19 | | 254.90 | 922 |
| | SK 50 | 27 | 111.0 | 130 | 58 | 21 | | 261.91 | 927 |
| | SK 50 | 32 | 111.0 | 130 | 78 | 24 | | 268.89 | 932 |
| | SK 50 | 40 | 111.0 | 130 | 88 | 27 | | 273.76 | 940 ¹⁾ |
| extra-long | SK 40 | 16 | 141.0 | 160 | 38 | 17 | | 204.21 | 516 |
| | SK 40 | 22 | 141.0 | 160 | 48 | 19 | | 210.46 | 522 |
| | SK 40 | 27 | 141.0 | 160 | 58 | 21 | | 213.60 | 527 |
| | SK 40 | 32 | 141.0 | 160 | 78 | 24 | | 223.72 | 532 |
| | SK 40 | 40 | 141.0 | 160 | 88 | 27 | | 233.11 | 540 ¹⁾ |
| | SK 50 | 16 | 141.0 | 160 | 38 | 17 | | 310.29 | 716 |
| | SK 50 | 22 | 141.0 | 160 | 48 | 19 | | 315.95 | 722 |
| | SK 50 | 27 | 141.0 | 160 | 58 | 21 | | 325.08 | 727 |
| | SK 50 | 32 | 141.0 | 160 | 78 | 24 | | 334.94 | 732 |
| | SK 50 | 40 | 141.0 | 160 | 88 | 27 | | 338.07 | 740 ¹⁾ |

1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters



Cross nut key



Cross screw



clamping screw

| Spare parts DCONWS | 83 368 ... | | 83 367 ... | | 83 950 ... | |
|-----------------------|------------|-----|------------|-----|------------|-----|
| | £ Y8 | | £ Y8 | | £ Y8/3B | |
| 16 | 25.47 | 116 | 6.77 | 016 | 7.18 | 113 |
| 22 | 31.70 | 122 | 7.53 | 022 | 8.10 | 124 |
| 27 | 37.27 | 127 | 9.63 | 027 | 8.95 | 125 |
| 32 | 50.79 | 132 | 15.12 | 032 | 10.90 | 126 |
| 40 | 50.45 | 140 | 16.18 | 040 | 12.02 | 112 |



Screw for drivers



Driver

| Spare parts DCONWS | 83 950 ... | | 83 950 ... | |
|-----------------------|------------|-----|------------|-----|
| | £ Y8/3B | | £ Y8/3B | |
| 16 | 1.23 | 296 | 17.35 | 120 |
| 22 | 1.61 | 297 | 17.91 | 121 |
| 27 | 1.66 | 136 | 19.75 | 122 |
| 32 | 1.75 | 137 | 19.96 | 123 |
| 40 | 1.99 | 138 | 26.57 | 295 |

Accessories

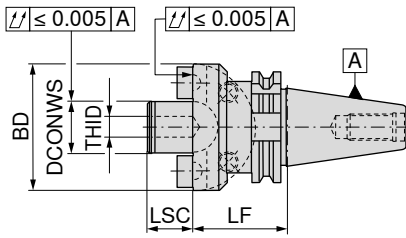
| Pull studs | Extensions | Others |
|---|---|---|
|  |  |  |
| → 57, 59 | → 256 | → 278 |

Large diameter facemill adapter

- ▲ For milling cutters with keyway or drive slot DIN 6357
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws



A
G 6,3 n_{max} 8000

82 432 ...

£

Y8/3B
367.51 040

390.15 240

477.89 260

| Adapter | DCONWS mm | LF mm | BD mm | LSC mm | THID |
|---------|--------------|----------|----------|-----------|------|
| SK 40 | 40 | 60 | 89 | 30 | M20 |
| SK 50 | 40 | 70 | 89 | 30 | M20 |
| SK 50 | 60 | 70 | 129 | 40 | M30 |



Screw for drivers



Driver



Socket head
screw



clamping screw

83 950 ...

83 950 ...

70 950 ...

83 950 ...

Spare parts

DCONWS

| | £ | | £ | | £ | | £ |
|----|-------|------|-----|----------------|-------|-------|-----|
| 40 | Y8/3B | 1.99 | 138 | 15,9x16,3x19,5 | Y8/3B | 26.57 | 295 |
| 60 | | | | 25,4x16,3x26,5 | | 29.95 | 298 |
| | | | | M12x30 - SW10 | | 9.74 | 181 |
| | | | | M12x50 | | 8.94 | 140 |
| | | | | M16x45 | | 18.37 | 160 |

Accessories



Pull studs

→ 57, 59

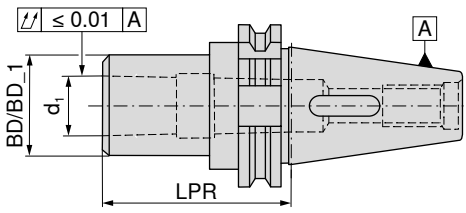


Others

→ 278

Taper sleeve DIN6383 for DIN 228-2D Morse taper shanks

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

82 439 ...

£
Y8/3B

| | Adapter | d ₁ | LPR mm | BD mm | BD_1 mm | | |
|---------------|---------|----------------|-----------|----------|------------|--|--------------|
| short | SK 30 | MK1 | 50 | 25 | | | |
| | SK 30 | MK2 | 63 | 32 | | | |
| | SK 30 | MK3 | 80 | 40 | | | |
| | SK 40 | MK1 | 50 | | 25 | | 121.47 110 |
| | SK 40 | MK2 | 50 | | 32 | | 124.91 120 |
| | SK 40 | MK3 | 70 | | 40 | | 133.57 130 |
| | SK 40 | MK4 | 95 | 48 | | | 140.39 140 |
| | SK 50 | MK1 | 50 | | 25 | | 152.53 310 |
| | SK 50 | MK2 | 60 | | 32 | | 157.50 320 |
| | SK 50 | MK3 | 65 | | 40 | | 163.05 330 |
| | SK 50 | MK4 | 95 | 48 | | | 169.47 340 |
| | SK 50 | MK5 | 105 | | 63 | | 185.13 350 |
| medium length | SK 40 | MK2 | 117 | 32 | | | 212.66 22000 |
| | SK 40 | MK3 | 133 | 40 | | | 236.42 23000 |
| | SK 40 | MK4 | 156 | 48 | | | 257.68 24000 |

Accessories

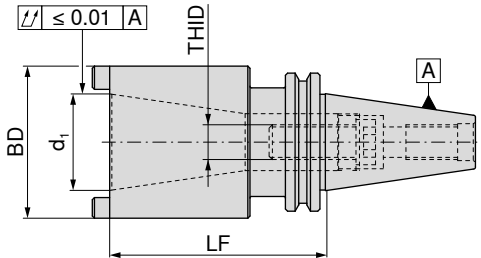
| | | |
|-------------------------------------|------------------------|-----------------|
| | | |
| Morse taper adapter sleeve → 236 | Pull studs → 57, 59 | Others → 278 |

Milling adapter sleeve

- ▲ For mounting steep taper adapters according to DIN 2080
- ▲ With an extended retaining screw, adapters compliant with ISO 7388-1 – SK, ISO 7388-2 – MAS-BT and ANSI-CAT can also be clamped
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with clamping screw for DIN 2080 adapters



A
G 6,3 R_{max} 8000

| Adapter | d ₁ | LF mm | BD mm | THID | | |
|---------|----------------|----------|----------|------|--|--|
| SK 40 | SK 30 | 50 | 50 | M12 | | |
| SK 40 | SK 40 | 100 | 70 | M16 | | |
| SK 50 | SK 40 | 80 | 70 | M16 | | |
| SK 50 | SK 50 | 120 | 100 | M24 | | |

| | | | | | | |
|-------------------|-------|--|--|--|--|--|
| 82 453 ... | | | | | | |
| £ | Y8/3B | | | | | |
| 246.41 | 03000 | | | | | |
| 277.83 | 040 | | | | | |
| 368.95 | 240 | | | | | |
| 389.80 | 250 | | | | | |

Spare parts for Article no.

| Article no. | Clamping screw SK | Morse taper clamping screw | Counterscrew | Hollow key with nose | Fixing ring |
|--------------|-------------------|----------------------------|--------------|----------------------|-------------|
| 82 453 03000 | £ Y8/3B | £ Y8/3B | £ Y8/3B | £ Y8/3B | £ Y8/3B |
| 82 453 040 | 12.61 009 | 6.02 18400 | 0.96 030 | 49.52 017 | 7.38 18500 |
| 82 453 240 | 13.51 264 | | 0.96 030 | 60.20 023 | 17.50 270 |
| 82 453 250 | 44.43 256 | | 0.96 031 | 74.75 133 | 29.88 257 |

Auxiliary table for finding the required spare parts and accessories for intermediate sleeves for SK-adapters

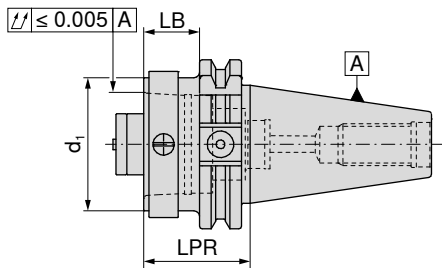
| ISO 7388-1 | Norm of the SK-shank | | Clamping screw length |  |  |  |  | |
|--------------|--------------------------|------------|-----------------------|---|--|---|---|------------|
| | Suitable for article no. | ISO 7388-1 | | | | | | DIN 2080 |
| 82 453 03000 | | | SK 30 | M12 x 40 | 83 950 18400 | 83 950 18500 | 83 950 030 | 83 359 017 |
| 82 453 040 | SK40 | | | M16 x 70 | 83 950 264 | 83 950 270 | 83 950 030 | 83 359 023 |
| 82 453 040 | | SK40 | | M16 x 40 | 83 950 009 | 83 950 270 | 83 950 030 | 83 359 023 |
| 82 453 240 | SK40 | | | M16 x 70 | 83 950 264 | | | |
| 82 453 240 | | SK40 | | M16 x 40 | 83 950 009 | | | |
| 82 453 250 | SK50 | | | M24 x 80 | 83 950 256 | 83 950 257 | 83 950 031 | 83 359 133 |
| 82 453 250 | | SK50 | | M24 x 50 | 83 950 263 | 83 950 257 | 83 950 031 | 83 359 133 |

SK/HSK-A adapter

- ▲ for mounting HSK-A adapters according to ISO 12164
- ▲ also available with Balluff chip **on request**

Scope of supply:

with clamping cartridge and cover ring



AD

84 014 ...

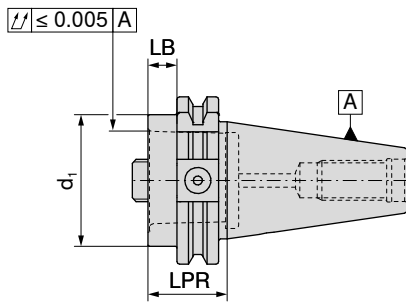
£
Y8

| Adapter | d ₁ | LB mm | LPR mm | £ | |
|---------|----------------|----------|-----------|----------|-------|
| SK 50 | HSK-A 100 | 80.9 | 100 | 1,681.39 | 05055 |
| SK 40 | HSK-A 63 | 60.9 | 80 | 1,070.20 | 04057 |
| SK 40 | HSK-A 50 | 20.9 | 40 | 1,091.44 | 04058 |
| SK 40 | HSK-A 40 | 20.9 | 40 | 1,070.20 | 04059 |
| SK 40 | HSK-A 32 | 20.9 | 40 | 1,049.16 | 04060 |
| SK 50 | HSK-A 63 | 20.9 | 40 | 1,428.60 | 05057 |
| SK 50 | HSK-A 50 | 20.9 | 40 | 1,344.26 | 05058 |
| SK 50 | HSK-A 40 | 20.9 | 40 | 1,322.99 | 05059 |
| SK 50 | HSK-A 32 | 20.9 | 40 | 1,322.99 | 05060 |

SK/PSC adapter

- ▲ for mounting PSC adapters according to ISO 26623-1
- ▲ also available with Balluff chip **on request**

Scope of supply:
with tightening screw



AD

84 015 ...

| Adapter | d ₁ | LB mm | LPR mm | £ Y8 | |
|---------|----------------|----------|-----------|----------|-------|
| SK 50 | PSC 80 | 50.9 | 70 | 1,028.13 | 05086 |
| SK 40 | PSC 32 | 10.9 | 30 | 669.73 | 04087 |
| SK 40 | PSC 63 | 65.9 | 85 | 669.73 | 04093 |
| SK 40 | PSC 50 | 10.9 | 30 | 690.99 | 04094 |
| SK 40 | PSC 40 | 10.9 | 30 | 690.99 | 04095 |
| SK 50 | PSC 32 | 10.9 | 30 | 922.99 | 05087 |
| SK 50 | PSC 63 | 10.9 | 30 | 964.82 | 05093 |
| SK 50 | PSC 50 | 10.9 | 30 | 943.79 | 05094 |
| SK 50 | PSC 40 | 10.9 | 30 | 1,091.44 | 05095 |



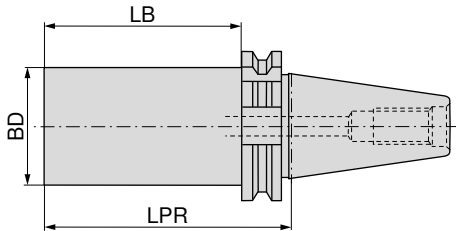
84 950 ...

84 950 ...

| Spare parts DCONWS | £ Y8 | | | £ Y8 | |
|-----------------------|---------|-----|------|---------|-----|
| 22 | 49.77 | 127 | SW8 | 36.12 | 122 |
| 28 | 49.77 | 128 | SW8 | 40.71 | 123 |
| 35 | 49.77 | 129 | SW10 | 40.71 | 124 |
| 44 | 99.37 | 130 | SW14 | 45.31 | 126 |
| 55 | 99.37 | 130 | SW14 | 45.31 | 126 |

Blank

- ▲ Material: Steel 17CrNiMo5
- ▲ for production of special tools
- ▲ Diameter BD turned with 0.5 mm oversize
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



AD/B

82 458 ...

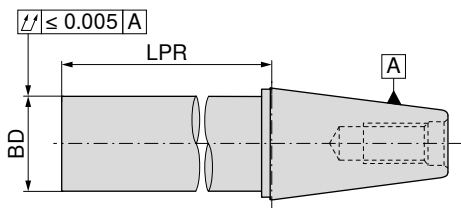
| | |
|--------|-----|
| £ | |
| Y8/3B | 040 |
| 199.20 | 050 |
| 354.42 | |

| Adapter | BD mm | LPR mm | LB mm |
|---------|----------|-----------|----------|
| SK 40 | 63.0 | 250 | 231 |
| SK 50 | 63.5 | 300 | 281 |

Test bar

- ▲ Without clamping slots
- ▲ MAS BT 40 special pull stud with LF = 32 mm, Article No. 83 538 040 / 83 535 040

Scope of supply:
in wooden box





A

82 456 ...

| | |
|----------|-----|
| £ | |
| Y8/3B | 040 |
| 933.14 | 050 |
| 1,154.26 | |

| Adapter | BD mm | LPR mm |
|------------|----------|-----------|
| SK / BT 40 | 40 | 330 |
| SK / BT 50 | 50 | 330 |

Accessories

| | |
|---|---|
|  |  |
| Pull studs | Others |
| → 57, 59, 108–109 | → 278 |

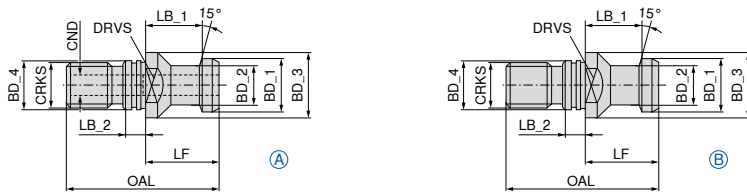
Pull studs for tool holders according to ISO 7388-1

▲ ISO 7388-3 AD

▲ For tools with or without axial coolant supply

Scope of supply:

including O-Ring



| Adapter | BD_1 mm | BD_2 mm | BD_3 mm | BD_4 mm | CRKS | OAL mm | LF mm | LB_1 mm | LB_2 mm | CND mm | DRVS mm | TQX Nm | form | 82 475 ... | | 82 468 ... | |
|---------|------------|------------|------------|------------|------|-----------|----------|------------|------------|-----------|------------|-----------|------|------------|-----|------------|-----|
| | | | | | | | | | | | | | | £ | | £ | |
| SK 40 | 19 | 14 | 23 | 17 | M16 | 54 | 26 | 20 | 7 | 7.0 | 19 | 90 | A | Y8 | | 15.25 | 040 |
| SK 30 | 13 | 9 | 17 | 13 | M12 | 44 | 24 | 19 | 5 | 3.5 | 14 | 60 | A | | | 17.92 | 030 |
| SK 50 | 28 | 21 | 36 | 25 | M24 | 74 | 34 | 25 | 10 | 11.5 | 30 | 145 | A | | | 22.64 | 050 |
| SK 30 | 13 | 9 | 17 | 13 | M12 | 44 | 24 | 19 | 5 | | 14 | 60 | B | 17.92 | 030 | | |
| SK 40 | 19 | 14 | 23 | 17 | M16 | 54 | 26 | 20 | 7 | | 19 | 90 | B | 15.25 | 040 | | |
| SK 50 | 28 | 21 | 36 | 25 | M24 | 74 | 34 | 25 | 10 | | 30 | 145 | B | 22.64 | 050 | | |

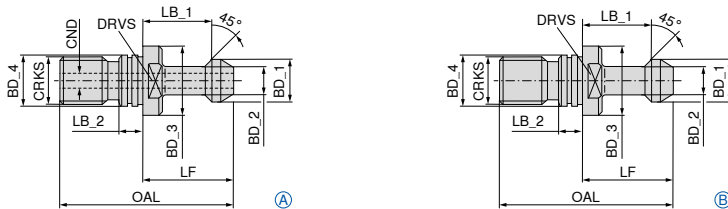
Pull studs for tool holders according to ISO 7388-1

▲ Similar to BT 45°, but 3 mm shorter

▲ for Haas, Micron and Hurco machines

Scope of supply:

including O-Ring



| Adapter | BD_1 mm | BD_2 mm | BD_3 mm | BD_4 mm | CRKS | OAL mm | LF mm | LB_1 mm | LB_2 mm | CND mm | DRVS mm | TQX Nm | form | 83 538 ... | | 83 535 ... | |
|---------|------------|------------|------------|------------|------|-----------|----------|------------|------------|-----------|------------|-----------|------|------------|-----|------------|-----|
| | | | | | | | | | | | | | | £ | | £ | |
| SK 40 | 15 | 10 | 23 | 17 | M16 | 57 | 32 | 25 | 5 | 4 | 19 | 90 | A | Y8 | | 22.07 | 040 |
| SK 40 | 15 | 10 | 23 | 17 | M16 | 57 | 32 | 25 | 5 | | 19 | 90 | B | 26.19 | 040 | | |



Spare parts

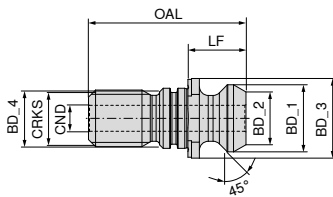
BD_4

| | 83 476 ... | |
|----|------------|----------|
| | £ | |
| 17 | Y8 | |
| | BT / SK 40 | 3.01 040 |
| 25 | BT / SK 50 | 3.01 050 |

Pull studs for tool holders according to ISO 7388-1

- ▲ ISO 7388-3 Form UD
- ▲ For tools with axial coolant supply

Scope of supply:
including O-Ring



NEW

82 469 ...

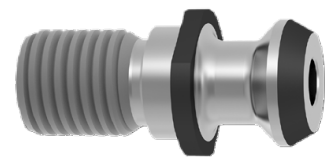
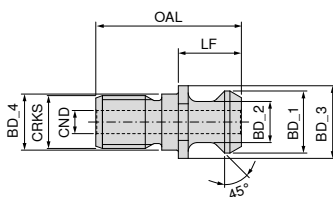
£
Y8
14.86 04000

| Adapter | BD_1 | BD_2 | BD_3 | BD_4 | CRKS | OAL | LF | LB_1 | CND | DRVS | TQX |
|---------|-------|-------|------|------|------|------|------|-------|------|------|-----|
| | mm | mm | mm | mm | | mm | mm | mm | mm | mm | Nm |
| SK 40 | 18.95 | 12.95 | 22.5 | 17 | M16 | 44.5 | 16.4 | 11.15 | 7.35 | 19 | 90 |

Pull studs for adapters according to ANSI-CAT (MAZAK)

- ▲ ANSI – CAT 40
- ▲ Similar to BT 45°, but 3 mm shorter
- ▲ For Mazak machines

Scope of supply:
including O-Ring



NEW

82 469 ...

£
Y8
14.86 14000

| Adapter | BD_1 | BD_2 | BD_3 | BD_4 | CRKS | OAL | LF | LB_1 | CND | DRVS | TQX |
|---------|--------|--------|------|------|------|--------|--------|--------|-----|------|-----|
| | mm | mm | mm | mm | | mm | mm | mm | mm | mm | Nm |
| SK 40 | 18.796 | 12.449 | 22 | 17 | M16 | 44.106 | 19.106 | 14.026 | 7 | 19 | 90 |



83 476 ...

£
Y8
3.01 040

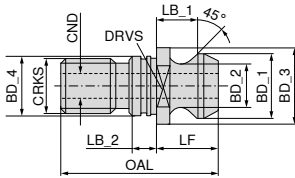
Spare parts
for Article no.
82 469 14000

Pull studs for tool holders according to ISO 7388-1

- ▲ CAT Mazak
- ▲ Face ground flat

Scope of supply:

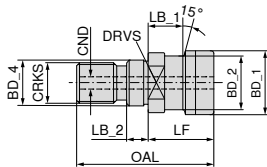
- SK 50 including O-ring
- SK 40 without O-ring groove



| Adapter | BD_1 | BD_2 | BD_3 | BD_4 | CRKS | OAL | LF | LB_1 | LB_2 | CND | DRVS | TQX | 82 487 ... | |
|---------|-------|-------|------|------|------|-------|-------|-------|------|------|------|-----|------------|-----|
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | Nm | £ | |
| SK 40 | 18.79 | 12.44 | 21.8 | 17 | M16 | 41.26 | 16.25 | 11.17 | 4.0 | 7.0 | 19 | 90 | 15.25 | 040 |
| SK 50 | 29.10 | 19.60 | 37.0 | 25 | M24 | 65.50 | 25.55 | 17.95 | 5.5 | 11.5 | 30 | 145 | 23.93 | 050 |

Pull studs for tool holders according to ISO 7388-1

- ▲ SK 40 with circlip groove and edge protection, with and without internal thread
- ▲ SK 50 with circlip groove, with and without internal thread
- ▲ For tools according to ISO 7388-1 for conversion to DIN 2080

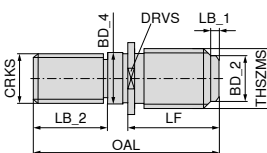


| Adapter | BD_1 | BD_2 | BD_4 | CRKS | OAL | LF | LB_1 | LB_2 | CND | DRVS | TQX | without internal thread | | with internal thread | |
|---------|------|------|------|------|-----|----|------|------|-----|------|-----|-------------------------|-------------------|----------------------|-----|
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | Nm | £ | | £ | |
| SK 40 | 25.0 | 21.1 | 17 | M16 | 53 | 25 | 13.6 | 8 | 7 | 19 | 90 | 24.95 | 040 | 24.95 | 040 |
| SK 50 | 39.3 | 32.0 | 25 | M24 | 65 | 25 | 13.3 | 10 | | 30 | 145 | 28.46 | 050 ¹⁾ | 28.46 | 050 |

1) with O ring

Pull studs for tool holders according to ISO 7388-1

- ▲ DECKEL thread S 20 x 2



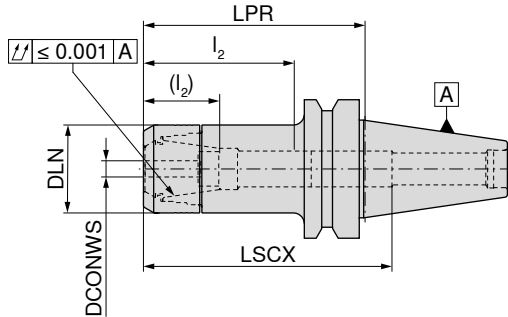
| Adapter | THSZMS | CRKS | OAL | LF | LB_1 | LB_2 | BD_2 | BD_4 | DRVS | 83 471 ... | |
|---------|----------|------|-----|----|------|------|------|------|------|------------|-----|
| | S 20 x 2 | M16 | mm | mm | mm | mm | mm | mm | mm | £ | |
| SK 40 | S 20 x 2 | M16 | 55 | 33 | 4 | 17 | 16.7 | 17 | 22 | 42.89 | 040 |

ER Precision Collet chuck – Centro-P

- ▲ for standard or sealed nuts
- ▲ maximum size collet to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without nut, without backstop**



AD
G 2,5 n_{max} 25000

84 524 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | for collet | £ Y8 | |
|---------|--------------|-----------|-----------|------------|-----------------------|-------------|---------|-----|
| BT 30 | 1 - 10 | 50 | 30 | 73 | 28 - 44 (16 - 31) | 426E (ER16) | 251.44 | 001 |
| BT 30 | 1 - 10 | 75 | 30 | 97 | 28 - 45 (14 - 31) | 426E (ER16) | 278.38 | 002 |
| BT 30 | 1 - 10 | 100 | 30 | 123 | 28 - 44 (16 - 31) | 426E (ER16) | 323.20 | 003 |
| BT 30 | 1 - 10 | 120 | 30 | 112 | 28 - 45 (14 - 31) | 426E (ER16) | 350.79 | 004 |
| | | | | | | | | |
| BT 30 | 2 - 16 | 60 | 40 | 77 | 35 - 59 (30 - 42) | 430E (ER25) | 287.41 | 160 |
| BT 30 | 2 - 16 | 75 | 40 | 72 | 38 - 56 (23 - 39) | 430E (ER25) | 287.41 | 161 |
| BT 30 | 2 - 16 | 90 | 40 | 87 | 38 - 56 (23 - 39) | 430E (ER25) | 350.79 | 162 |
| BT 30 | 2 - 16 | 120 | 40 | 115 | 38 - 56 (23 - 39) | 430E (ER25) | 350.79 | 164 |
| | | | | | | | | |
| BT 30 | 2 - 20 | 60 | 50 | 69 | 42 - 52 | 470E (ER32) | 220.12 | 207 |
| BT 30 | 2 - 20 | 75 | 50 | 84 | 42 - 62 (24 - 45) | 470E (ER32) | 220.12 | 208 |
| BT 30 | 2 - 20 | 90 | 50 | 94 | 42 - 62 (24 - 45) | 470E (ER32) | 241.00 | 209 |
| | | | | | | | | |
| BT 40 | 1 - 10 | 75 | 30 | 90 | 38 - 53 (29 - 39) | 426E (ER16) | 177.32 | 210 |
| BT 40 | 1 - 10 | 90 | 30 | 120 | 30 - 50 (29 - 36) | 426E (ER16) | 210.12 | 310 |
| BT 40 | 1 - 10 | 120 | 30 | 140 | 29 - 45 (29 - 35) | 426E (ER16) | 286.12 | 410 |
| BT 40 | 1 - 10 | 150 | 30 | 180 | 29 - 45 (29 - 32) | 426E (ER16) | 308.46 | 510 |
| BT 40 | 1 - 10 | 200 | 30 | 220 | 29 - 50 (29 - 36) | 426E (ER16) | 357.63 | 610 |
| | | | | | | | | |
| BT 40 | 2 - 16 | 60 | 40 | 92 | 44 - 64 (36 - 46) | 430E (ER25) | 201.19 | 116 |
| BT 40 | 2 - 16 | 75 | 40 | 100 | 42 - 59 (36 - 41) | 430E (ER25) | 177.32 | 216 |
| BT 40 | 2 - 16 | 90 | 40 | 91 | 42 - 59 (36 - 41) | 430E (ER25) | 210.12 | 316 |
| BT 40 | 2 - 16 | 105 | 40 | 100 | 35 - 60 (20 - 42) | 430E (ER25) | 302.76 | 168 |
| BT 40 | 2 - 16 | 120 | 40 | 91 | 40 - 65 (36 - 47) | 430E (ER25) | 308.46 | 416 |
| BT 40 | 2 - 16 | 150 | 40 | 100 | 40 - 64 (36 - 45) | 430E (ER25) | 330.82 | 516 |
| BT 40 | 2 - 16 | 200 | 40 | 150 | 40 - 64 (36 - 45) | 430E (ER25) | 379.98 | 616 |
| | | | | | | | | |
| BT 40 | 2 - 20 | 60 | 50 | 55 | 45 - 64 (42 - 46) | 470E (ER32) | 201.19 | 120 |
| BT 40 | 2 - 20 | 75 | 50 | 100 | 42 - 76 (42 - 52) | 470E (ER32) | 177.32 | 220 |
| BT 40 | 2 - 20 | 90 | 50 | 100 | 42 - 76 (42 - 52) | 470E (ER32) | 210.12 | 320 |
| BT 40 | 2 - 20 | 120 | 50 | 110 | 42 - 71 (42 - 53) | 470E (ER32) | 308.46 | 420 |
| BT 40 | 2 - 20 | 150 | 50 | 110 | 42 - 71 (42 - 53) | 470E (ER32) | 330.82 | 520 |
| | | | | | | | | |
| BT 40 | 3 - 26 | 75 | 63 | 78 | 54 - 59 | 472E (ER40) | 226.51 | 226 |
| BT 40 | 3 - 26 | 105 | 63 | 93 | 55 - 71 (48 - 53) | 472E (ER40) | 293.57 | 326 |
| | | | | | | | | |
| BT 50 | 2 - 20 | 75 | 50 | 110 | 45 - 70 (42 - 53) | 470E (ER32) | 335.29 | 720 |
| BT 50 | 2 - 20 | 105 | 50 | 140 | 45 - 63 (42 - 45) | 470E (ER32) | 397.88 | 820 |
| BT 50 | 2 - 20 | 165 | 50 | 200 | 45 - 74 (42 - 56) | 470E (ER32) | 599.05 | 920 |
| | | | | | | | | |
| BT 50 | 3 - 26 | 75 | 63 | 100 | 48 - 58 | 472E (ER40) | 357.63 | 726 |
| BT 50 | 3 - 26 | 105 | 63 | 100 | 48 - 58 | 472E (ER40) | 420.23 | 826 |

→ Transmittable torque moments, Page 306

i LSCX = clamping depth without back stop screw for shanks
 l_2 = with back stop screw 1, dimension in brackets (l_2) = with back stop screw 2
 dimension LPR when using tightening nuts with seals 3 mm longer

Spare parts, ER precision collet chuck – Centro-P

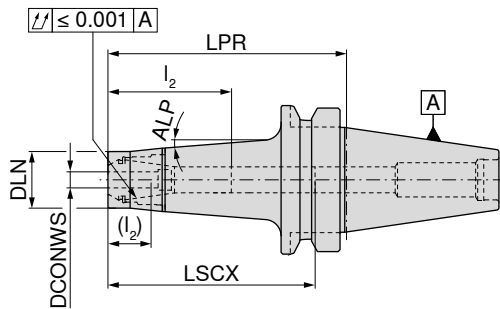
| | Lock nut IK | | Lock nut | | Stop screw 2 | | Stop screw 1 | | | |
|------------------------|-------------|-----|------------|-----|---------------|-------|--------------|---------------|-------|-----|
| | 84 950 ... | | 84 950 ... | | 83 950 ... | | 83 950 ... | | | |
| Spare parts for collet | £ | | £ | | £ | | £ | | | |
| | Y8 | | Y8 | | Y8 | | Y8 | | | |
| 426E (ER16) | 92.42 | 011 | 68.64 | 001 | M11x1 - SW6 | 57.33 | 341 | M11x1 - SW6 | 38.40 | 337 |
| 430E (ER25) | 103.01 | 013 | 76.26 | 003 | M18x1,5 - SW6 | 40.33 | 432 | M18x1,5 - SW6 | 28.76 | 431 |
| 470E (ER32) | 110.15 | 015 | 83.89 | 005 | M22x1,5 - SW6 | 34.06 | 402 | M22x1,5 - SW6 | 24.81 | 401 |
| 472E (ER40) | 150.65 | 017 | 122.04 | 007 | | | | M28x1,5 - SW6 | 34.77 | 400 |

ER Precision tapered collet chuck – Centro-P

- ▲ for special tapered nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop



AD/B
G 2,5 n_{max} 25000

84 517 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | for collet | ALP | £ | |
|---------|-----------|--------|--------|---------|--------------------|-------------|------|--------|-------|
| | | | | | | | | Y8 | |
| BT 40 | 1 - 10 | 100 | 24 | 72 | 28 - 48 (20 - 35) | 426E (ER16) | 4.5° | 294.62 | 410 |
| BT 40 | 1 - 10 | 135 | 24 | 165 | 28 - 48 (20 - 35) | 426E (ER16) | 4.5° | 276.90 | 31000 |
| BT 40 | 1 - 10 | 160 | 24 | 180 | 28 - 48 (20 - 35) | 426E (ER16) | 4.5° | 369.29 | 510 |

→ Transmittable torque moments, Page 306



LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer

| | Tapered lock nut IK | | Tapered lock nut | | Stop screw 2 | | Stop screw 1 | | | |
|------------------------|---------------------|-----|------------------|-----|--------------|-------|--------------|-------------|-------|-----|
| | 84 950 ... | | 84 950 ... | | 83 950 ... | | 83 950 ... | | | |
| Spare parts for collet | £ | | £ | | £ | | £ | | | |
| | Y8 | | Y8 | | Y8 | | Y8 | | | |
| 426E (ER16) | 113.47 | 033 | 95.86 | 031 | M11x1 - SW6 | 57.33 | 341 | M11x1 - SW6 | 38.40 | 337 |

Accessories

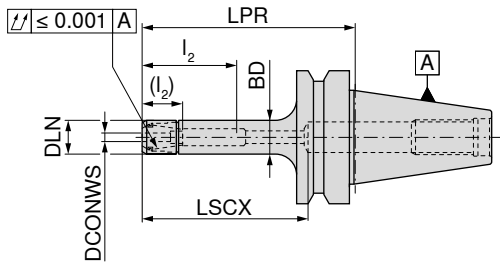
| | | | | | |
|----------------|--------------|----------|-----------------|------------|--------|
| | | | | | |
| ER collet | Sealing ring | Roll key | Roll key device | Pull studs | Others |
| → 262-269, 273 | → 274 | → 280 | → 280 | → 108-109 | → 278 |

ER Precision collet chuck, slim version – Centro-P

- ▲ for Mini Clamping Nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ p_{max} 80 bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without nut, without backstop**



AD
G 2,5 n_{max} 25000

84 507 ...

£
Y8

007
008



AD/B
G 2,5 n_{max} 25000

84 508 ...

£
Y8

294.43 307
303.86 40600
392.47 507
409.82 90600

| Adapter | DCONWS mm | LPR mm | DLN mm | BD mm | LSCX mm | l_2 (l_2) mm | for collet | | |
|---------|--------------|-----------|-----------|----------|------------|-----------------------|--------------|--------|--------------|
| BT 30 | 1 - 7 | 50 | 16 | 16 | 68 | 18 - 32 (12 - 22) | 4008E (ER11) | 279.57 | |
| BT 30 | 1 - 7 | 100 | 16 | 16 | 68 | 18 - 36 (12 - 26) | 4008E (ER11) | 309.54 | |
| BT 40 | 1 - 7 | 75 | 16 | 16 | 100 | 15 - 30 (8 - 21) | 4008E (ER11) | | 294.43 307 |
| BT 40 | 1 - 7 | 90 | 16 | 16 | 68 | 18 - 36 (12 - 26) | 4008E (ER11) | | 303.86 40600 |
| BT 40 | 1 - 7 | 120 | 16 | 16 | 140 | 15 - 30 (8 - 21) | 4008E (ER11) | | 392.47 507 |
| BT 40 | 1 - 7 | 150 | 16 | 16 | 68 | 18 - 36 (12 - 26) | 4008E (ER11) | | 409.82 90600 |
| BT 40 | 1 - 10 | 75 | 22 | 22 | 100 | 27 - 49 (16 - 32) | 426E (ER16) | | 294.43 216 |
| BT 40 | 1 - 10 | 90 | 22 | 22 | 115 | 27 - 49 (16 - 32) | 426E (ER16) | | 294.43 316 |
| BT 40 | 1 - 10 | 120 | 22 | 22 | 145 | 27 - 49 (16 - 32) | 426E (ER16) | | 392.47 416 |
| BT 40 | 1 - 10 | 150 | 22 | 22 | 175 | 27 - 49 (16 - 32) | 426E (ER16) | | 392.47 516 |

i LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer

| | Mini lock nut IK | Mini lock nut | Stop screw 2 | Stop screw 1 |
|-------------------------------|------------------|---------------|--------------|--------------|
| | 84 950 ... | 84 950 ... | 83 950 ... | 83 950 ... |
| | £ Y8 | £ Y8 | £ Y8 | £ Y8 |
| Spare parts for collet | | | | |
| 4008E (ER11) | | 95.86 041 | 54.64 340 | 36.39 336 |
| 426E (ER16) | 93.35 035 | 76.59 034 | 57.33 341 | 38.40 337 |

Accessories

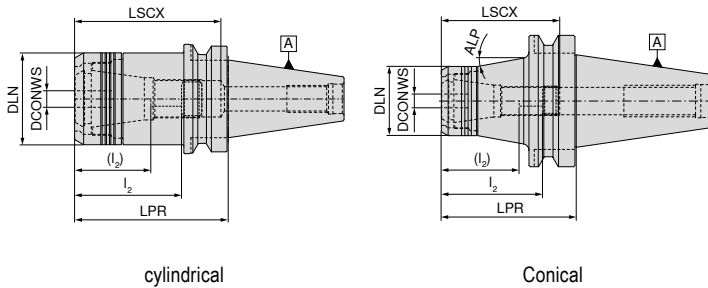
| | | | | | | |
|----------------|--------------|--------|----------|-----------------|------------|--------|
| | | | | | | |
| ER collet | Sealing ring | Device | Roll key | Roll key device | Pull studs | Others |
| → 262–269, 273 | → 274 | → 279 | → 280 | → 280 | → 108–109 | → 278 |

ER precision collet chuck – HDC

- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body **including** lock nut, **without** backstop screw



AD
G 6,3 p_{max} 18000

cylindrical



AD
G 6,3 p_{max} 18000

conical

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | ALP ° | for collet | £ | £ |
|---------|--------------|-----------|-----------|------------|-----------------------|----------|-------------|--------|--------------|
| BT 40 | 2 - 20 | 60 | 53 | 80 | 41 - 63 (27 - 45) | | 470E (ER32) | 407.76 | 12069 |
| BT 40 | 2 - 20 | 90 | 53 | 85 | 41 - 63 (27 - 45) | | 470E (ER32) | 424.65 | 22069 |
| BT 50 | 2 - 20 | 75 | 53 | 114 | 41 - 80 (27 - 62) | 10 | 470E (ER32) | | 632.13 12068 |
| BT 50 | 2 - 20 | 105 | 53 | 140 | 41 - 80 (27 - 62) | 10 | 470E (ER32) | | 738.30 22068 |



LSCX = Clamping depth without backstop screw
 l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2

| Part | Price | Part | Price | Part | Price |
|----------|-------------------|---------------|----------------|---------------|----------------|
| Lock nut | 84 950 ... | Stop screw 2 | 83 950 ... | Stop screw 1 | 83 950 ... |
| 2 - 20 | £ Y8 127.88 30100 | M22x1,5 - SW6 | £ Y8 34.06 402 | M22x1,5 - SW6 | £ Y8 24.81 401 |

Spare parts

Accessories

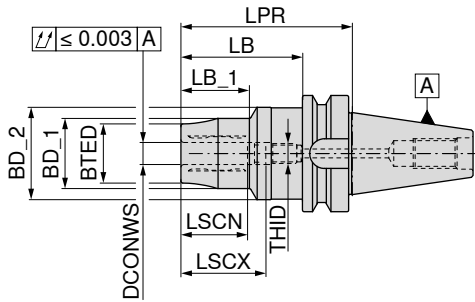
| Item | Price | Item | Price | Item | Price | Item | Price | Item | Price |
|-----------|--------------------|----------|-------|-----------------|-------|------------|-----------|--------|-------|
| ER collet | → 262-270, 272-273 | Roll key | → 280 | Roll key device | → 280 | Pull studs | → 108-109 | Others | → 278 |

High pressure chuck, short version

▲ also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw



AD/B
G 2,5 n_{max} 25000

83 526 ...

| | Adapter | DCONWS | LPR | BTED | BD_1 | BD_2 | LB_1 | LSCX | LSCN | LB | THID | 83 526 ... | |
|-------|---------|--------|-----|------|------|------|------|------|------|-----|-------|------------|-----|
| | | | | | | | | | | | | mm | mm |
| short | BT 40 | 16 | 95 | 36 | 42 | 50 | 42 | 49 | 39 | 71 | M12x1 | 1,141.41 | 116 |
| | BT 40 | 20 | 100 | 42 | 48 | 50 | 45 | 51 | 41 | 76 | M16x1 | 1,014.24 | 120 |
| | BT 40 | 25 | 110 | 51 | 57 | 50 | 60 | 57 | 47 | 91 | M16x1 | 1,141.41 | 125 |
| | BT 40 | 32 | 120 | 57 | 63 | 50 | 65 | 61 | 51 | 101 | M16x1 | 1,141.41 | 132 |

→ Min. clamping depth, Page 306



Spare parts for Article no.

| Article no. | Part | Quantity | Price (£) | Part | Quantity | Price (£) | Part | Quantity | Price (£) | Part | Quantity | Price (£) |
|-------------|--------------|----------|-----------|------|----------|-----------|----------|----------|-----------|------------|----------|-----------|
| 83 526 116 | M5x5 - SW2,5 | 157 | 3.67 | SW5 | 050 | 7.73 | M10x1x14 | 429 | 10.98 | M12x1x18 | 446 | 21.22 |
| 83 526 120 | M5x5 - SW2,5 | 157 | 3.67 | SW5 | 050 | 7.73 | M10x1x12 | 159 | 21.84 | M16x1x18,5 | 448 | 23.26 |
| 83 526 125 | M5x5 - SW2,5 | 157 | 3.67 | SW5 | 050 | 7.73 | M10x1x12 | 159 | 21.84 | M16x1x22 | 449 | 36.76 |
| 83 526 132 | M5x5 - SW2,5 | 157 | 3.67 | SW5 | 050 | 7.73 | M10x1x14 | 429 | 10.98 | M16x1x25 | 450 | 45.75 |

Accessories

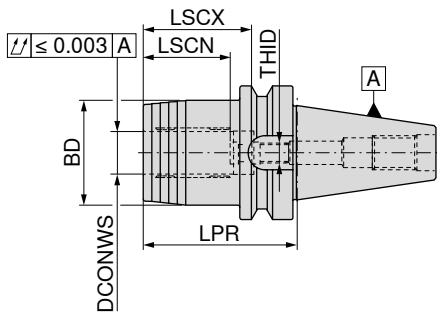
| | | |
|------------------|------------|--------|
| | | |
| Reduction sleeve | Pull studs | Others |
| → 276 | → 57, 59 | → 278 |

High pressure chuck, short and stable version

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD/B
G 2,5 n_{max} 25000

83 513 ...

£
Y8

429.89 120

| Adapter | DCONWS mm | LPR mm | BD mm | LSCX mm | LSCN mm | THID |
|---------|--------------|-----------|----------|------------|------------|------------|
| BT 40 | 20 | 72.5 | 49 | 51 | 40 | M16x1x13,5 |

→ Min. clamping depth, Page 306



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.

| | | | | | | | | | | | | |
|------------|--------------|------|-----|-----|------|-----|----------|-------|-----|------------------|-------|-----|
| 83 513 120 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x14 | 10.98 | 429 | M16x1x13,5 - SW8 | 27.66 | 424 |
|------------|--------------|------|-----|-----|------|-----|----------|-------|-----|------------------|-------|-----|

Accessories

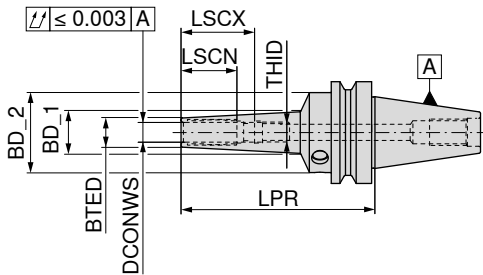
| | | |
|------------------|------------|--------|
| | | |
| Reduction sleeve | Pull studs | Others |
| → 276 | → 108-109 | → 278 |

High pressure chuck, slim 3°

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw, pressure screw and screw plug



AD/B
G 2,5 n_{max} 25000

83 522 ...

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD_1 mm | BD_2 mm | LSCX mm | LSCN mm | THID | £ | |
|---------------|---------|--------------|-----------|------------|------------|------------|------------|------------|----------|----------|-----|
| | | | | | | | | | | Y8 | |
| medium length | BT40 | 3 | 120 | 9 | 16.55 | 49.5 | 28 | 12 | M3 | 840.97 | 103 |
| | BT40 | 4 | 120 | 10 | 17.55 | 49.5 | 28 | 16 | M3 | 840.97 | 104 |
| | BT40 | 5 | 120 | 11 | 18.55 | 49.5 | 28 | 20 | M3 | 840.97 | 105 |
| | BT40 | 6 | 120 | 12 | 19.55 | 49.5 | 37 | 27 | M5 | 717.19 | 106 |
| | BT40 | 8 | 120 | 14 | 21.55 | 49.5 | 37 | 27 | M6 | 717.19 | 108 |
| | BT40 | 10 | 120 | 16 | 23.65 | 49.5 | 41 | 31 | M8x1 | 717.19 | 110 |
| | BT40 | 12 | 120 | 18 | 25.76 | 49.5 | 46 | 36 | M10x1 | 717.19 | 112 |
| | BT40 | 16 | 120 | 24 | 31.45 | 49.5 | 49 | 39 | M12x1 | 1,031.20 | 116 |
| | BT40 | 20 | 120 | 28 | 35.55 | 49.5 | 51 | 41 | M16x1 | 1,031.20 | 120 |
| | BT40 | 6 | 160 | 16 | 33.53 | 49.5 | 37 | 27 | M5 | 1,079.39 | 206 |
| | BT40 | 8 | 160 | 18 | 34.60 | 49.5 | 37 | 27 | M6 | 1,079.39 | 208 |
| | BT40 | 10 | 160 | 20 | 36.27 | 49.5 | 41 | 31 | M8x1 | 1,079.39 | 210 |
| | BT40 | 12 | 160 | 22 | 37.88 | 49.5 | 46 | 36 | M10x1 | 1,079.39 | 212 |
| | BT40 | 6 | 200 | 16 | 37.88 | 49.5 | 37 | 27 | M5 | 1,212.99 | 306 |
| | BT40 | 8 | 200 | 18 | 38.90 | 49.5 | 37 | 27 | M6 | 1,212.99 | 308 |
| | BT40 | 10 | 200 | 20 | 40.57 | 49.5 | 41 | 31 | M8x1 | 1,212.99 | 310 |
| BT40 | 12 | 200 | 22 | 42.18 | 49.5 | 46 | 36 | M10x1 | 1,212.99 | 312 | |

→ Min. clamping depth, Page 306



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

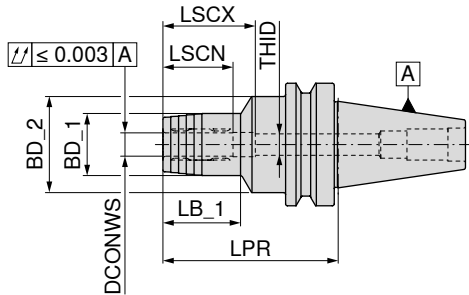
| Spare parts for Article no. | 83 950 ... | | 80 397 ... | | 83 950 ... | | 83 950 ... | | | | | |
|--------------------------------|--------------|------|------------|-----|------------|-----|------------|-------|-----|------------------|-------|-----|
| | £ | Y7 | £ | Y7 | £ | Y7 | £ | Y7 | | | | |
| 83 522 103 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M3x20 - SW1,5 | 16.65 | 172 |
| 83 522 104 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M3x20 - SW1,5 | 16.65 | 172 |
| 83 522 105 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M3x20 - SW1,5 | 16.65 | 172 |
| 83 522 106 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 83 522 108 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M6x12,5 - SW3 | 23.98 | 419 |
| 83 522 110 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 83 522 112 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 83 522 116 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M12x1x13,5 - SW5 | 23.98 | 422 |
| 83 522 120 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M16x1x13,5 - SW8 | 27.66 | 424 |
| 83 522 206 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 83 522 208 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M6x12,5 - SW3 | 23.98 | 419 |
| 83 522 210 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 83 522 212 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 83 522 306 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 83 522 308 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x10 | 21.84 | 158 | M6x12,5 - SW3 | 23.98 | 419 |
| 83 522 310 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 83 522 312 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x12 | 21.84 | 159 | M10x1x13,5 - SW5 | 23.98 | 421 |

Hydraulic chuck MAS BT, short and slim version

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD/B
G 2,5 n_{max} 25000

83 521 ...

| Adapter | DCONWS mm | LPR mm | BD_1 mm | BD_2 mm | LSCX mm | LSCN mm | LB_1 mm | THID | £ | |
|---------|--------------|-----------|------------|------------|------------|------------|------------|-------|----------|-----|
| BT 40 | 6 | 90 | 26 | 49.5 | 37 | 27 | 29 | M5 | 835.64 | 106 |
| BT 40 | 8 | 90 | 28 | 49.5 | 37 | 27 | 30 | M6 | 835.64 | 108 |
| BT 40 | 10 | 90 | 30 | 49.5 | 41 | 31 | 35 | M8x1 | 835.64 | 110 |
| BT 40 | 12 | 90 | 32 | 49.5 | 46 | 36 | 40 | M10x1 | 730.49 | 112 |
| BT 40 | 16 | 90 | 38 | 49.5 | 49 | 39 | 45 | M12x1 | 835.64 | 116 |
| BT 40 | 20 | 90 | 42 | 49.5 | 51 | 41 | 47 | M16x1 | 730.49 | 120 |
| BT 40 | 25 | 90 | 55 | 52.0 | 57 | 47 | 50 | M16x1 | 835.64 | 125 |
| BT 40 | 32 | 90 | 63 | 62.0 | 61 | 51 | 48 | M16x1 | 835.64 | 132 |
| BT 50 | 6 | 90 | 26 | 49.5 | 37 | 27 | 29 | M5 | 1,169.50 | 306 |
| BT 50 | 8 | 90 | 28 | 49.5 | 37 | 27 | 30 | M6 | 1,169.50 | 308 |
| BT 50 | 10 | 90 | 30 | 49.5 | 41 | 31 | 34 | M8x1 | 1,169.50 | 310 |
| BT 50 | 12 | 90 | 32 | 49.5 | 46 | 36 | 34 | M10x1 | 1,062.52 | 312 |
| BT 50 | 16 | 90 | 38 | 49.5 | 49 | 39 | 35 | M12x1 | 1,169.50 | 316 |
| BT 50 | 20 | 90 | 42 | 49.5 | 51 | 41 | 35 | M16x1 | 1,062.52 | 320 |
| BT 50 | 25 | 110 | 55 | 63.0 | 57 | 47 | 48 | M16x1 | 1,169.50 | 325 |
| BT 50 | 32 | 110 | 63 | 70.0 | 61 | 51 | 50 | M16x1 | 1,169.50 | 332 |

→ Min. clamping depth, Page 306



| Spare parts | £ | | £ | | £ | | | | | |
|-------------|----|----------|-------|-----|-------------|-----------------|-------|------------------|-------|-----|
| DCONWS | Y7 | | Y7 | | Y7 | | | | | |
| 6 | | M8x1x10 | 16.61 | 439 | | M5x12,5 - SW2,5 | 23.98 | 418 | | |
| 8 | | M8x1x10 | 16.61 | 439 | M6x14 - SW2 | 23.98 | 417 | M6x12,5 - SW3 | 23.98 | 419 |
| 10 | | M10x1x12 | 16.61 | 440 | | | | M8x1x13,5 - SW3 | 23.98 | 420 |
| 12 | | M10x1x12 | 16.61 | 440 | | | | M10x1x13,5 - SW5 | 23.98 | 421 |
| 16 | | M10x1x12 | 16.61 | 440 | | | | M12x1x13,5 - SW5 | 23.98 | 422 |
| 20 - 32 | | M10x1x12 | 16.61 | 440 | | | | M16x1x13,5 - SW8 | 27.66 | 424 |

Accessories

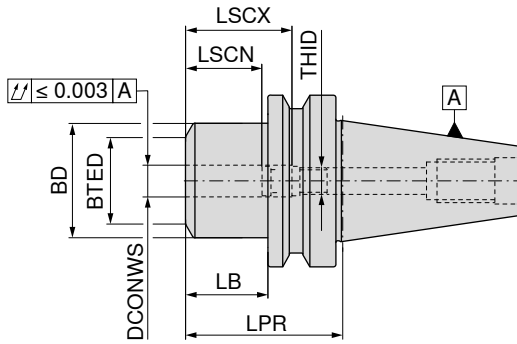


Hydraulic chuck, short and stable version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

| |
|-------------------|
| 83 430 ... |
| £ |
| Y8 |
| 377.13 01269 |
| 377.13 02069 |
| 674.03 02068 |

| Adapter | DCONWS mm | LPR mm | BD mm | BTED mm | LB mm | LSCN mm | LSCX mm | THID |
|---------|--------------|-----------|----------|------------|----------|------------|------------|-------|
| BT 40 | 12 | 58.0 | 42 | 32 | 31.0 | 36 | 46 | M8x1 |
| BT 40 | 20 | 72.5 | 49 | 38 | 45.5 | 41 | 51 | M16x1 |
| BT 50 | 20 | 83.5 | 49 | 38 | 45.5 | 41 | 51 | M16x1 |

→ Min. clamping depth, Page 306

**Spare parts
for Article no.**

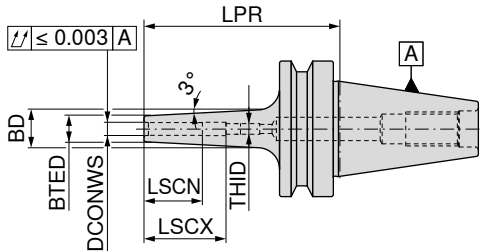
| |
|--------------|
| 83 430 01269 |
| 83 430 02069 |
| 83 430 02068 |

| Clamping key – T | Pressure screw | Stop screw IK |
|-------------------|-------------------|-------------------|
| 80 397 ... | 83 950 ... | 83 950 ... |
| £ | £ | £ |
| Y7 | Y7 | Y7 |
| 7.73 050 | 16.61 440 | 23.98 420 |
| 7.73 050 | 16.61 440 | 27.66 424 |
| 7.73 050 | 16.61 440 | 27.66 424 |

Shrink adapter, Slim 3°

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG



AD/B
G 2,5 n_{max} 25000

84 323 ...

| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | £ | |
|---------------|---------|--------|-----|------|----|------|-------|--------|--------|-----|
| | | mm | mm | mm | mm | mm | mm | | Y8 | |
| short | BT 40 | 3 | 90 | 9 | 15 | 28 | 12 | M6 | 677.24 | 103 |
| | BT 40 | 4 | 90 | 10 | 16 | 28 | 16 | M6 | 658.93 | 104 |
| | BT 40 | 5 | 90 | 11 | 17 | 30 | 20 | M6 | 658.93 | 105 |
| | BT 40 | 6 | 90 | 12 | 18 | 36 | 26 | M5 | 585.70 | 106 |
| | BT 40 | 8 | 90 | 14 | 20 | 36 | 26 | M6 | 585.70 | 108 |
| | BT 40 | 10 | 90 | 16 | 22 | 41 | 31 | M8x1 | 585.70 | 110 |
| | BT 40 | 12 | 90 | 18 | 24 | 47 | 37 | M10x1 | 585.70 | 112 |
| | BT 40 | 14 | 90 | 20 | 26 | 47 | 37 | M10x1 | 585.70 | 114 |
| | BT 40 | 16 | 90 | 22 | 28 | 50 | 40 | M12x1 | 585.70 | 116 |
| | BT 40 | 18 | 90 | 24 | 30 | 50 | 40 | M12x1 | 585.70 | 118 |
| BT 40 | 20 | 90 | 26 | 32 | 52 | 42 | M16x1 | 585.70 | 120 | |
| medium length | BT 40 | 3 | 120 | 9 | 16 | 12 | 12 | | 755.00 | 203 |
| | BT 40 | 4 | 120 | 10 | 17 | 16 | 16 | | 741.29 | 204 |
| | BT 40 | 5 | 120 | 11 | 18 | 20 | 20 | | 741.29 | 205 |
| | BT 40 | 6 | 120 | 12 | 21 | 36 | 26 | M5 | 663.51 | 206 |
| | BT 40 | 8 | 120 | 14 | 23 | 36 | 26 | M6 | 663.51 | 208 |
| | BT 40 | 10 | 120 | 16 | 25 | 41 | 31 | M8x1 | 663.51 | 210 |
| | BT 40 | 12 | 120 | 18 | 27 | 47 | 37 | M10x1 | 663.51 | 212 |
| | BT 40 | 14 | 120 | 20 | 29 | 47 | 37 | M10x1 | 663.51 | 214 |
| | BT 40 | 16 | 120 | 22 | 31 | 50 | 40 | M12x1 | 663.51 | 216 |
| | BT 40 | 18 | 120 | 24 | 33 | 50 | 40 | M12x1 | 663.51 | 218 |
| BT 40 | 20 | 120 | 26 | 35 | 52 | 42 | M16x1 | 663.51 | 220 | |
| extra-long | BT 40 | 3 | 160 | 9 | 19 | 12 | 12 | | 851.10 | 303 |
| | BT 40 | 4 | 160 | 10 | 20 | 16 | 16 | | 837.37 | 304 |
| | BT 40 | 5 | 160 | 11 | 21 | 20 | 20 | | 837.37 | 305 |
| | BT 40 | 6 | 160 | 12 | 24 | 36 | 26 | M5 | 759.59 | 306 |
| | BT 40 | 8 | 160 | 14 | 26 | 36 | 26 | M6 | 759.59 | 308 |
| | BT 40 | 10 | 160 | 16 | 28 | 41 | 31 | M8x1 | 759.59 | 310 |
| | BT 40 | 12 | 160 | 18 | 30 | 47 | 37 | M10x1 | 759.59 | 312 |
| | BT 40 | 14 | 160 | 20 | 32 | 47 | 37 | M10x1 | 759.59 | 314 |
| | BT 40 | 16 | 160 | 22 | 34 | 50 | 40 | M12x1 | 759.59 | 316 |
| | BT 40 | 18 | 160 | 24 | 36 | 50 | 40 | M12x1 | 759.59 | 318 |
| BT 40 | 20 | 160 | 26 | 38 | 52 | 42 | M16x1 | 759.59 | 320 | |

→ Min. clamping depth, Page 306



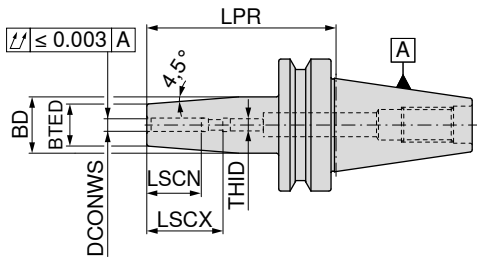
Spare parts
DCONWS

| | £ | | £ | |
|---------|-------|-------------|-----|----------------------------|
| | Y7 | | Y7 | |
| 3 - 5 | 23.98 | M6x14 - SW2 | 417 | M5x12,5 - SW2,5 23.98 418 |
| 6 | | | | M6x12,5 - SW3 23.98 419 |
| 8 | | | | M8x1x13,5 - SW3 23.98 420 |
| 10 | | | | M10x1x13,5 - SW5 23.98 421 |
| 12 - 14 | | | | M12x1x13,5 - SW5 23.98 422 |
| 16 - 18 | | | | M16x1x13,5 - SW8 27.66 424 |
| 20 | | | | |

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip on request

TG



AD
G 2,5 n_{max} 25000



AD/B
G 2,5 n_{max} 25000

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD mm | LSCX mm | LSCN mm | THID | 84 303 ... | | | |
|---------------|---------|--------------|-----------|------------|----------|------------|------------|-------|------------|-----|---------|-----|
| | | | | | | | | | £ Y8 | 003 | £ Y8 | |
| short | BT 30 | 3 | 85 | 10 | 17 | 28 | 12 | M6 | 681.81 | 003 | | |
| | BT 30 | 4 | 85 | 15 | 22 | 28 | 16 | M6 | 658.93 | 004 | | |
| | BT 30 | 5 | 85 | 15 | 22 | 30 | 20 | M6 | 658.93 | 005 | | |
| | BT 30 | 6 | 85 | 21 | 27 | 36 | 26 | M5 | 585.70 | 006 | | |
| | BT 30 | 8 | 85 | 21 | 27 | 36 | 26 | M6 | 585.70 | 008 | | |
| | BT 30 | 10 | 85 | 24 | 32 | 41 | 31 | M8x1 | 585.70 | 010 | | |
| | BT 30 | 12 | 85 | 24 | 32 | 47 | 37 | M10x1 | 585.70 | 012 | | |
| | BT 30 | 14 | 85 | 27 | 34 | 47 | 37 | M10x1 | 585.70 | 014 | | |
| | BT 30 | 16 | 85 | 27 | 34 | 50 | 40 | M12x1 | 585.70 | 016 | | |
| | BT 30 | 18 | 85 | 33 | 42 | 50 | 40 | M12x1 | 585.70 | 018 | | |
| | BT 30 | 20 | 85 | 33 | 42 | 52 | 42 | M16x1 | 585.70 | 020 | | |
| | BT 40 | 3 | 90 | 10 | 17 | 28 | 12 | M6 | | | 322.13 | 103 |
| | BT 40 | 4 | 90 | 15 | 22 | 28 | 16 | M6 | | | 313.08 | 104 |
| | BT 40 | 5 | 90 | 15 | 22 | 30 | 20 | M6 | | | 313.08 | 105 |
| | BT 40 | 6 | 90 | 21 | 27 | 36 | 26 | M5 | | | 275.53 | 106 |
| | BT 40 | 8 | 90 | 21 | 27 | 36 | 26 | M6 | | | 275.53 | 108 |
| | BT 40 | 10 | 90 | 24 | 32 | 41 | 31 | M8x1 | | | 275.53 | 110 |
| | BT 40 | 12 | 90 | 24 | 32 | 47 | 37 | M10x1 | | | 275.53 | 112 |
| | BT 40 | 14 | 90 | 27 | 34 | 47 | 37 | M10x1 | | | 275.53 | 114 |
| | BT 40 | 16 | 90 | 27 | 34 | 50 | 40 | M12x1 | | | 275.53 | 116 |
| | BT 40 | 18 | 90 | 33 | 42 | 50 | 40 | M12x1 | | | 275.53 | 118 |
| | BT 40 | 20 | 90 | 33 | 42 | 52 | 42 | M16x1 | | | 275.53 | 120 |
| | BT 40 | 25 | 100 | 44 | 53 | 58 | 48 | M16x1 | | | 275.53 | 125 |
| medium length | BT 40 | 3 | 120 | 10 | 20 | 12 | 12 | | | | 361.55 | 203 |
| | BT 40 | 4 | 120 | 15 | 22 | 16 | 16 | | | | 352.49 | 204 |
| | BT 40 | 5 | 120 | 15 | 22 | 20 | 20 | | | | 352.49 | 205 |
| | BT 40 | 6 | 120 | 21 | 27 | 36 | 26 | M5 | | | 314.95 | 206 |
| | BT 40 | 8 | 120 | 21 | 27 | 36 | 26 | M6 | | | 314.95 | 208 |
| | BT 40 | 10 | 120 | 24 | 32 | 41 | 31 | M8x1 | | | 314.95 | 210 |
| | BT 40 | 12 | 120 | 24 | 32 | 47 | 37 | M10x1 | | | 314.95 | 212 |
| | BT 40 | 14 | 120 | 27 | 34 | 47 | 37 | M10x1 | | | 314.95 | 214 |
| | BT 40 | 16 | 120 | 27 | 34 | 50 | 40 | M12x1 | | | 314.95 | 216 |
| | BT 40 | 18 | 120 | 33 | 42 | 50 | 40 | M12x1 | | | 314.95 | 218 |
| | BT 40 | 20 | 120 | 33 | 42 | 52 | 42 | M16x1 | | | 314.95 | 220 |
| | BT 40 | 25 | 120 | 44 | 53 | 58 | 48 | M16x1 | | | 314.95 | 225 |
| extra-long | BT 40 | 3 | 160 | 10 | 20 | 12 | 12 | | | | 409.82 | 303 |
| | BT 40 | 4 | 160 | 15 | 22 | 16 | 16 | | | | 400.77 | 304 |
| | BT 40 | 5 | 160 | 15 | 22 | 20 | 20 | | | | 400.77 | 305 |
| | BT 40 | 6 | 160 | 21 | 27 | 36 | 26 | M5 | | | 363.25 | 306 |
| | BT 40 | 8 | 160 | 21 | 27 | 36 | 26 | M6 | | | 363.25 | 308 |
| | BT 40 | 10 | 160 | 24 | 32 | 41 | 31 | M8x1 | | | 363.25 | 310 |
| | BT 40 | 12 | 160 | 24 | 32 | 47 | 37 | M10x1 | | | 363.25 | 312 |
| | BT 40 | 14 | 160 | 27 | 34 | 47 | 37 | M10x1 | | | 363.25 | 314 |
| | BT 40 | 16 | 160 | 27 | 34 | 50 | 40 | M12x1 | | | 363.25 | 316 |
| | BT 40 | 18 | 160 | 33 | 42 | 50 | 40 | M12x1 | | | 363.25 | 318 |
| | BT 40 | 20 | 160 | 33 | 42 | 52 | 42 | M16x1 | | | 363.25 | 320 |
| | BT 40 | 25 | 160 | 44 | 53 | 58 | 48 | M16x1 | | | 363.25 | 325 |

→ Min. clamping depth, Page 306

Spare parts heat shrink adapter 4.5°

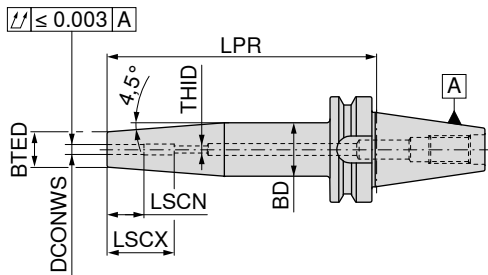


| | | 83 950 ... | | 83 950 ... | |
|-------------|-------------|------------|-----|------------------|-----------|
| | | £ | | £ | |
| Spare parts | | Y7 | | Y7 | |
| DCONWS | | | | | |
| 3 - 5 | M6x14 - SW2 | 23.98 | 417 | | |
| 6 | | | | M5x12,5 - SW2,5 | 23.98 418 |
| 8 | | | | M6x12,5 - SW3 | 23.98 419 |
| 10 | | | | M8x1x13,5 - SW3 | 23.98 420 |
| 12 - 14 | | | | M10x1x13,5 - SW5 | 23.98 421 |
| 16 - 18 | | | | M12x1x13,5 - SW5 | 23.98 422 |
| 20 - 25 | | | | M16x1x13,5 - SW8 | 27.66 424 |

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip on request

TG



AD/B
G 2,5 n_{max} 25000

82 310 ...

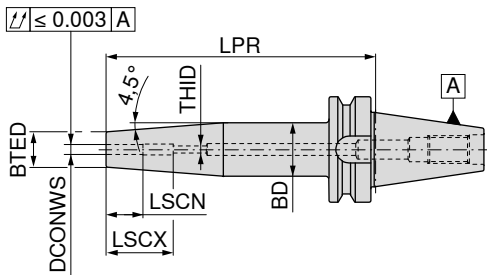
| | Adapter | DCONWS mm | LPR mm | BTED mm | BD mm | LSCX mm | LSCN mm | THID | £ | | |
|---------------|---------|--------------|-----------|------------|----------|------------|------------|-------|--------|--------|-------|
| short | BT 40 | 3 | 90 | 11 | 15 | | | | 292.35 | 10369 | |
| | BT 40 | 4 | 90 | 11 | 15 | | | | 280.46 | 10469 | |
| | BT 40 | 5 | 90 | 11 | 15 | | | | 280.46 | 10569 | |
| | BT 40 | 6 | 90 | 21 | 27 | 36 | 26 | M5 | 251.66 | 10669 | |
| | BT 40 | 8 | 90 | 21 | 27 | 36 | 26 | M6 | 251.66 | 10869 | |
| | BT 40 | 10 | 90 | 24 | 34 | 41 | 31 | M8x1 | 251.66 | 11069 | |
| | BT 40 | 12 | 90 | 24 | 34 | 46 | 36 | M10x1 | 251.66 | 11269 | |
| | BT 40 | 14 | 90 | 27 | 34 | 46 | 36 | M10x1 | 251.66 | 11469 | |
| | BT 40 | 16 | 90 | 27 | 34 | 49 | 39 | M12x1 | 251.66 | 11669 | |
| | BT 40 | 18 | 90 | 33 | 42 | 49 | 39 | M12x1 | 251.66 | 11869 | |
| | BT 40 | 20 | 90 | 33 | 42 | 51 | 41 | M16x1 | 251.66 | 12069 | |
| | BT 40 | 25 | 100 | 44 | 53 | 57 | 47 | M16x1 | 251.66 | 12569 | |
| | | BT 50 | 6 | 100 | 21 | 27 | 36 | 26 | M5 | 267.81 | 10668 |
| | | BT 50 | 8 | 100 | 21 | 27 | 36 | 26 | M6 | 267.81 | 10868 |
| | | BT 50 | 10 | 100 | 24 | 32 | 41 | 31 | M8x1 | 267.81 | 11068 |
| | | BT 50 | 12 | 100 | 24 | 32 | 47 | 37 | M10x1 | 267.81 | 11268 |
| | | BT 50 | 14 | 100 | 27 | 34 | 47 | 37 | M10x1 | 267.81 | 11468 |
| | | BT 50 | 16 | 100 | 27 | 34 | 50 | 40 | M12x1 | 267.81 | 11668 |
| BT 50 | | 18 | 100 | 33 | 42 | 50 | 40 | M12x1 | 267.81 | 11868 | |
| BT 50 | | 20 | 100 | 33 | 42 | 52 | 42 | M16x1 | 267.81 | 12068 | |
| BT 50 | | 25 | 100 | 44 | 53 | 58 | 48 | M16x1 | 267.81 | 12568 | |
| BT 50 | | 32 | 100 | 44 | 53 | 62 | 52 | M16x1 | 267.81 | 13268 | |
| medium length | BT 50 | 6 | 120 | 21 | 27 | 36 | 26 | M5 | 294.10 | 20668 | |
| | BT 50 | 8 | 120 | 21 | 27 | 36 | 26 | M6 | 294.10 | 20868 | |
| | BT 50 | 10 | 120 | 24 | 32 | 41 | 31 | M8x1 | 294.10 | 21068 | |
| | BT 50 | 12 | 120 | 24 | 32 | 47 | 37 | M10x1 | 294.10 | 21268 | |
| | BT 50 | 14 | 120 | 27 | 34 | 47 | 37 | M10x1 | 294.10 | 21468 | |
| | BT 50 | 16 | 120 | 27 | 34 | 50 | 40 | M12x1 | 294.10 | 21668 | |
| | BT 50 | 18 | 120 | 33 | 42 | 50 | 40 | M12x1 | 294.10 | 21868 | |
| | BT 50 | 20 | 120 | 33 | 42 | 52 | 42 | M16x1 | 294.10 | 22068 | |
| | BT 50 | 25 | 120 | 44 | 53 | 58 | 48 | M16x1 | 294.10 | 22568 | |
| | BT 50 | 32 | 120 | 44 | 53 | 62 | 52 | M16x1 | 294.10 | 23268 | |

→ Min. clamping depth, Page 306

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG



AD/B
G 2,5 n_{max} 25000

82 310 ...

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD mm | LSCX mm | LSCN mm | THID | | |
|------------|---------|--------------|-----------|------------|----------|------------|------------|-------|--------|-------|
| | | | | | | | | | £ | |
| extra-long | BT 40 | 6 | 160 | 21 | 27 | 36 | 26 | M5 | 325.95 | 30669 |
| | BT 40 | 8 | 160 | 21 | 27 | 36 | 26 | M6 | 325.95 | 30869 |
| | BT 40 | 10 | 160 | 24 | 34 | 41 | 31 | M8x1 | 325.95 | 31069 |
| | BT 40 | 12 | 160 | 24 | 34 | 46 | 36 | M10x1 | 325.95 | 31269 |
| | BT 40 | 14 | 160 | 27 | 34 | 46 | 36 | M10x1 | 325.95 | 31469 |
| | BT 40 | 16 | 160 | 27 | 34 | 49 | 39 | M12x1 | 325.95 | 31669 |
| | BT 40 | 18 | 160 | 33 | 42 | 49 | 39 | M12x1 | 325.95 | 31869 |
| | BT 40 | 20 | 160 | 33 | 42 | 51 | 41 | M16x1 | 325.95 | 32069 |
| | BT 40 | 25 | 160 | 44 | 53 | 57 | 47 | M16x1 | 325.95 | 32569 |
| | BT 50 | 6 | 160 | 21 | 27 | 36 | 26 | M5 | 326.68 | 30668 |
| | BT 50 | 8 | 160 | 21 | 27 | 36 | 26 | M6 | 326.68 | 30868 |
| | BT 50 | 10 | 160 | 24 | 32 | 41 | 31 | M8x1 | 326.68 | 31068 |
| | BT 50 | 12 | 160 | 24 | 32 | 47 | 37 | M10x1 | 326.68 | 31268 |
| | BT 50 | 14 | 160 | 27 | 34 | 47 | 37 | M10x1 | 326.68 | 31468 |
| | BT 50 | 16 | 160 | 27 | 34 | 50 | 40 | M12x1 | 326.68 | 31668 |
| | BT 50 | 18 | 160 | 33 | 42 | 50 | 40 | M12x1 | 326.68 | 31868 |
| | BT 50 | 20 | 160 | 33 | 42 | 52 | 42 | M16x1 | 326.68 | 32068 |
| | BT 50 | 25 | 160 | 44 | 53 | 58 | 48 | M16x1 | 326.68 | 32568 |
| | BT 50 | 32 | 160 | 44 | 53 | 62 | 52 | M16x1 | 326.68 | 33268 |

→ Min. clamping depth, Page 306



Stop screw IK

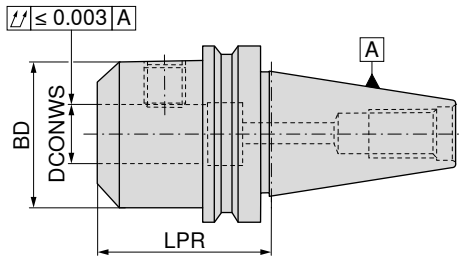
82 950 ...

Spare parts
DCONWS

| | | £ | |
|---------|----------------|------|-------|
| 6 | M5x16 - SW2,5 | 5.07 | 30000 |
| 8 | M6x16 - SW3 | 5.14 | 30100 |
| 10 | M8x1x16 - SW4 | 5.47 | 30200 |
| 12 - 14 | M10x1x14 - SW5 | 5.79 | 30300 |
| 16 - 18 | M12x1x16 - SW6 | 6.10 | 30400 |
| 20 - 32 | M16x1x16 - SW8 | 6.42 | 30500 |

Cylindrical shank adapter (Weldon)

- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**



AD

G 2,5 n_{max} 25000

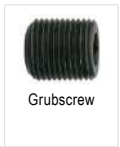


ADe

G 2,5 n_{max} 25000

| | Adapter | DCONWS ^{H4} mm | LPR mm | BD mm | 82 501 ... | | 82 503 ... | |
|-------------|---------|----------------------------|-----------|----------|------------|---------------------|------------|-------------------|
| | | | | | £ | | £ | |
| short | BT 30 | 6 | 50 | 25 | Y8/3B | | Y8/3B | |
| | BT 30 | 8 | 50 | 28 | 106.74 | 00600 | | |
| | BT 30 | 10 | 50 | 35 | 104.09 | 00800 | | |
| | BT 30 | 12 | 55 | 42 | 104.09 | 01000 | | |
| | BT 30 | 14 | 55 | 44 | 104.09 | 01200 | | |
| | BT 30 | 16 | 63 | 48 | 104.09 | 01400 | | |
| | BT 30 | 18 | 63 | 50 | 104.09 | 01600 | | |
| | BT 30 | 20 | 63 | 52 | 104.09 | 01800 | | |
| extra short | BT 40 | 16 | 35 | 48 | 156.78 | 416 | 223.43 | 416 |
| | BT 40 | 20 | 35 | 50 | 156.78 | 420 | 223.43 | 420 |
| | BT 40 | 25 | 40 | 50 | 171.75 | 425 ¹⁾ | 237.95 | 425 ¹⁾ |
| | BT 40 | 32 | 75 | 72 | 155.69 | 43200 ¹⁾ | 222.83 | 432 ¹⁾ |

1) Version with two grub screws



Spare parts

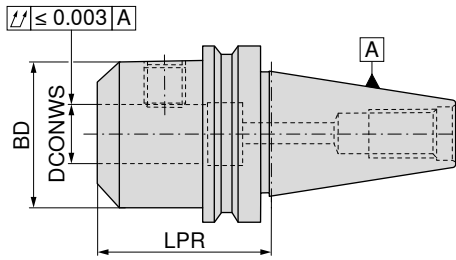
| DCONWS | | £ | |
|---------|----------|------|-----|
| 6 | M6x10 | 1.11 | 006 |
| 8 | M8x10 | 1.11 | 008 |
| 10 | M10x12 | 2.12 | 010 |
| 12 - 14 | M12x16 | 1.68 | 012 |
| 16 - 18 | M14x16 | 2.08 | 016 |
| 20 | M16x16 | 2.21 | 020 |
| 25 | M18x2x20 | 4.27 | 025 |
| 32 | M20x2x20 | 4.46 | 032 |

Accessories

| | |
|------------|--------|
| | |
| Pull studs | Others |
| → 108-109 | → 278 |

Cylindrical shank adapter (Weldon)

- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip on request



AD/B
G 2,5 n_{max} 25000



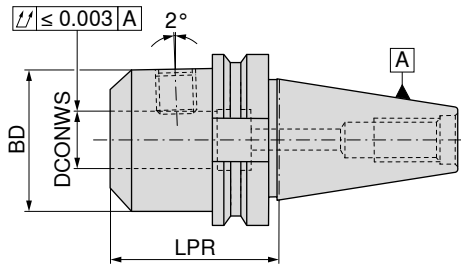
AD/Be
G 2,5 n_{max} 25000

| | Adapter | DCONWS _{H4} | | LPR | BD | 82 501 ... | | 82 504 ... | |
|---------------|------------|----------------------|-----|--------|---------------------|---------------------|---------------------|---------------------|--|
| | | mm | mm | | | £ | | £ | |
| short | BT 40 | 6 | 50 | 25 | 106.76 | 106 | 152.55 | 106 | |
| | BT 40 | 8 | 50 | 28 | 106.76 | 108 | 152.55 | 108 | |
| | BT 40 | 10 | 63 | 35 | 106.76 | 110 | 152.55 | 110 | |
| | BT 40 | 12 | 63 | 42 | 106.76 | 112 | 152.55 | 112 | |
| | BT 40 | 14 | 63 | 44 | 106.76 | 114 | 152.55 | 114 | |
| | BT 40 | 16 | 63 | 48 | 106.76 | 116 | 152.55 | 116 | |
| | BT 40 | 18 | 63 | 50 | 106.76 | 118 | 152.55 | 118 | |
| | BT 40 | 20 | 63 | 52 | 106.76 | 120 | 152.55 | 120 | |
| | BT 40 | 25 | 100 | 65 | 106.76 | 125 | 152.55 | 125 ¹⁾ | |
| | BT 40 | 32 | 100 | 72 | 122.04 | 132 ¹⁾ | 152.55 | 13200 ¹⁾ | |
| | BT 40 | 40 | 120 | 90 | 106.76 | 14000 ¹⁾ | | | |
| | BT 50 | 6 | 63 | 25 | 143.98 | 30600 | 230.18 | 30600 | |
| | BT 50 | 8 | 63 | 28 | 143.98 | 30800 | 230.18 | 30800 | |
| | BT 50 | 10 | 80 | 35 | 138.59 | 31000 | 211.99 | 31000 | |
| | BT 50 | 12 | 80 | 42 | 138.59 | 31200 | 211.99 | 31200 | |
| | BT 50 | 14 | 80 | 44 | 138.59 | 31400 | 211.99 | 31400 | |
| | BT 50 | 16 | 80 | 48 | 138.59 | 31600 | 232.11 | 31600 | |
| | BT 50 | 18 | 80 | 50 | 138.59 | 31800 | 232.11 | 31800 | |
| BT 50 | 20 | 80 | 52 | 138.59 | 32000 | 232.11 | 32000 | | |
| BT 50 | 25 | 100 | 65 | 152.53 | 32500 ¹⁾ | 248.71 | 32500 ¹⁾ | | |
| BT 50 | 32 | 105 | 72 | 154.09 | 33200 ¹⁾ | 261.86 | 33200 ¹⁾ | | |
| BT 50 | 40 | 120 | 90 | 160.92 | 34000 ¹⁾ | | | | |
| medium length | BT 40 | 6 | 100 | 25 | 114.39 | 506 | | | |
| | BT 40 | 8 | 100 | 28 | 114.39 | 508 | | | |
| | BT 40 | 10 | 100 | 35 | 114.39 | 510 | | | |
| | BT 40 | 12 | 100 | 42 | 114.39 | 512 | | | |
| | BT 40 | 14 | 100 | 44 | 114.39 | 514 | | | |
| | BT 40 | 16 | 100 | 48 | 156.78 | 516 | | | |
| | BT 40 | 18 | 100 | 50 | 114.39 | 518 | | | |
| | BT 40 | 20 | 100 | 52 | 156.78 | 520 | | | |
| | BT 50 | 6 | 100 | 25 | 210.46 | 70600 | | | |
| | BT 50 | 8 | 100 | 28 | 210.46 | 70800 | | | |
| | BT 50 | 10 | 100 | 35 | 201.37 | 71000 | | | |
| | BT 50 | 12 | 100 | 42 | 201.37 | 71200 | | | |
| | BT 50 | 14 | 100 | 44 | 201.37 | 71400 | | | |
| | BT 50 | 16 | 100 | 48 | 201.92 | 71600 | | | |
| | BT 50 | 18 | 100 | 50 | 201.92 | 71800 | | | |
| | BT 50 | 20 | 100 | 52 | 201.92 | 72000 | | | |
| | BT 50 | 25 | 120 | 65 | 216.04 | 72500 ¹⁾ | | | |
| | extra-long | BT 40 | 6 | 160 | 25 | 122.04 | 606 | | |
| BT 40 | | 8 | 160 | 28 | 122.04 | 608 | | | |
| BT 40 | | 10 | 160 | 35 | 122.04 | 610 | | | |
| BT 40 | | 12 | 160 | 42 | 122.04 | 612 | | | |
| BT 40 | | 14 | 160 | 44 | 122.04 | 614 | | | |
| BT 40 | | 16 | 160 | 48 | 122.04 | 616 | | | |
| BT 40 | | 18 | 160 | 50 | 122.04 | 618 | | | |
| BT 40 | | 20 | 160 | 52 | 122.04 | 620 | | | |
| BT 40 | | 25 | 160 | 65 | 122.04 | 625 ¹⁾ | | | |
| BT 50 | | 6 | 160 | 25 | 231.39 | 80600 | | | |
| BT 50 | | 8 | 160 | 28 | 231.39 | 80800 | | | |
| BT 50 | | 10 | 160 | 35 | 222.00 | 81000 | | | |
| BT 50 | | 12 | 160 | 42 | 222.00 | 81200 | | | |
| BT 50 | | 14 | 160 | 44 | 222.00 | 81400 | | | |
| BT 50 | | 16 | 160 | 48 | 223.16 | 81600 | | | |
| BT 50 | | 18 | 160 | 50 | 223.16 | 81800 | | | |
| BT 50 | | 20 | 160 | 52 | 223.16 | 82000 | | | |
| BT 50 | | 25 | 160 | 65 | 236.68 | 82500 ¹⁾ | | | |
| BT 50 | 32 | 160 | 72 | 240.80 | 83200 ¹⁾ | | | | |

1) Version with two grub screws

Cylindrical Shank Adapter (Whistle Notch)

- ▲ For shanks according to DIN 6535 HE / 1835 E with angled clamping flat
- ▲ The groove in the flat face is a characteristic feature of the Whistle Notch version
- ▲ also available with Balluff chip **on request**



AD/B
G 2,5 n_{max} 25000

82 507 ...

| | Adapter | DCONWS _{H4} mm | LPR mm | BD mm | £ | |
|-------|---------|----------------------------|-----------|----------|---------------------|---------------------|
| short | BT 40 | 6 | 50 | 25 | 160.07 | 106 |
| | BT 40 | 8 | 50 | 28 | 160.07 | 108 |
| | BT 40 | 10 | 63 | 35 | 148.25 | 110 |
| | BT 40 | 12 | 63 | 42 | 148.25 | 112 |
| | BT 40 | 14 | 63 | 44 | 148.25 | 114 |
| | BT 40 | 16 | 63 | 48 | 163.33 | 116 |
| | BT 40 | 18 | 63 | 50 | 163.33 | 118 |
| | BT 40 | 20 | 63 | 52 | 163.33 | 120 |
| | BT 40 | 25 | 100 | 65 | 175.08 | 12500 ¹⁾ |
| | BT 40 | 32 | 100 | 72 | 190.74 | 13200 ¹⁾ |
| | BT 40 | 40 | 120 | 80 | 170.42 | 14000 ¹⁾ |
| | BT 50 | 6 | 63 | 25 | 234.03 | 30600 |
| | BT 50 | 8 | 63 | 28 | 234.03 | 30800 |
| | BT 50 | 10 | 80 | 35 | 223.22 | 31000 |
| | BT 50 | 12 | 80 | 42 | 223.22 | 31200 |
| | BT 50 | 14 | 80 | 44 | 223.22 | 31400 |
| | BT 50 | 16 | 80 | 48 | 224.56 | 31600 |
| | BT 50 | 18 | 80 | 50 | 224.56 | 31800 |
| BT 50 | 20 | 80 | 52 | 224.56 | 32000 | |
| BT 50 | 25 | 100 | 65 | 245.44 | 32500 ¹⁾ | |
| BT 50 | 32 | 105 | 72 | 249.86 | 33200 ¹⁾ | |
| long | BT 40 | 6 | 130 | 25 | 170.99 | 206 |
| | BT 40 | 8 | 130 | 28 | 170.99 | 208 |
| | BT 40 | 10 | 130 | 35 | 160.03 | 210 |
| | BT 40 | 12 | 130 | 42 | 160.03 | 212 |
| | BT 40 | 16 | 130 | 48 | 172.05 | 216 |
| | BT 40 | 20 | 130 | 52 | 172.05 | 220 |
| | BT 40 | 25 | 130 | 65 | 205.55 | 225 ¹⁾ |
| | BT 50 | 6 | 130 | 25 | 268.78 | 90600 |
| | BT 50 | 8 | 130 | 28 | 268.78 | 90800 |
| | BT 50 | 10 | 130 | 35 | 254.26 | 91000 |
| | BT 50 | 12 | 130 | 42 | 254.26 | 91200 |
| | BT 50 | 16 | 130 | 48 | 255.32 | 91600 |
| | BT 50 | 20 | 130 | 52 | 255.32 | 92000 |
| | BT 50 | 25 | 130 | 65 | 269.87 | 92500 ¹⁾ |
| | BT 50 | 32 | 130 | 72 | 272.81 | 93200 ¹⁾ |


1) Version with two grub screws

Spare parts cylindrical shank adaptors (Weldon) and (Whistle Notch)




| Spare parts DCONWS _{H4} | 62 950 ... | | | 83 950 ... | | |
|-------------------------------------|------------|---------|-----|------------|------------|-----|
| | | £ W7 | | | £ Y8/3B | |
| 6 | M6x10 | 1.11 | 006 | M5x35 | 3.85 | 033 |
| 8 | M8x10 | 1.11 | 008 | M6x35 | 2.61 | 034 |
| 10 | M10x12 | 2.12 | 010 | M8x35 | 2.79 | 035 |
| 12 - 14 | M12x16 | 1.68 | 012 | M10x35 | 3.80 | 036 |
| 16 - 18 | M14x16 | 2.08 | 016 | M12x40 | 3.38 | 037 |
| 20 | M16x16 | 2.21 | 020 | M16x45 | 3.28 | 272 |
| 25 | M18x2x20 | 4.27 | 025 | M20x35 | 5.81 | 290 |
| 32 | M20x2x20 | 4.46 | 032 | M20x35 | 5.81 | 290 |
| 40 | M20x2x20 | 4.46 | 032 | | | |

Accessories



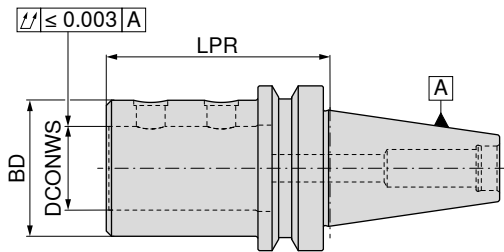
Pull studs
→ 108-109



Others
→ 278

Indexable insert drill adapter ISO 7388- 2 – MAS-BT

▲ also available with Balluff chip on request



AD/B
G 6,3 n_{max} 15000

10 841 ...

| Adapter | DCONWS mm | LPR mm | BD mm | £ | |
|---------|--------------|-----------|----------|--------|-----|
| BT 40 | 20 | 75 | 40 | 2E/45 | |
| BT 40 | 25 | 80 | 45 | 149.27 | 120 |
| BT 40 | 32 | 85 | 52 | 149.27 | 125 |
| BT 50 | 20 | 85 | 40 | 189.67 | 132 |
| BT 50 | 25 | 90 | 45 | 189.67 | 220 |
| BT 50 | 32 | 95 | 52 | 189.67 | 225 |
| BT 50 | 40 | 105 | 65 | 189.67 | 232 |
| BT 50 | 50 | 113 | 75 | 189.67 | 240 |
| | | | | 189.67 | 250 |

Suitable eccentric sleeves can be found in → **Chapter 3, Indexable insert drilling.**



Grubscrew

10 950 ...

| Spare parts | DCONWS | £ | |
|-------------|--------|-------|--------------|
| 20 | | 2A/28 | |
| 25 - 32 | | 4.42 | M10x1x10 001 |
| 40 - 50 | | 4.42 | M12x1x10 002 |
| | | 4.42 | M16x1x12 003 |

Accessories

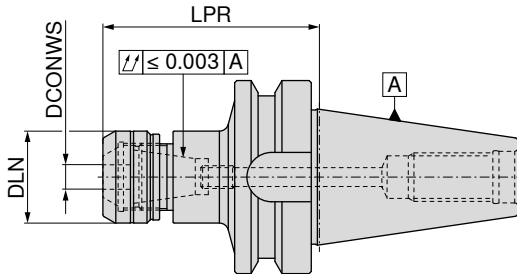
| | |
|------------|--------|
| | |
| Pull studs | Others |
| → 108-109 | → 278 |

ER Precision Collet chuck – PCC

- ▲ For standard or sealing disc lock nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 100$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with lock nut and backstop screw



AD/B
G 2,5 n_{max} 25000

82 700 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | for collet | Torque moment / Clamping force Nm | £ Y8 | |
|---------|--------------|-----------|-----------|-------------|--------------------------------------|---------|-------|
| BT 40 | 1 - 10 | 70 | 30 | 426E (ER16) | 40 / 2-70 | 216.56 | 11069 |
| BT 40 | 1 - 10 | 100 | 30 | 426E (ER16) | 40 / 2-70 | 311.96 | 21069 |
| BT 40 | 2 - 16 | 70 | 40 | 430E (ER25) | 80 / 10-160 | 216.56 | 11669 |
| BT 40 | 2 - 16 | 100 | 40 | 430E (ER25) | 80 / 10-160 | 311.96 | 21669 |
| BT 40 | 2 - 20 | 70 | 50 | 470E (ER32) | 125 / 15-250 | 216.56 | 12069 |
| BT 40 | 2 - 20 | 100 | 50 | 470E (ER32) | 125 / 15-250 | 311.96 | 22069 |
| BT 50 | 2 - 16 | 80 | 40 | 430E (ER25) | 80 / 10-160 | 407.99 | 11668 |
| BT 50 | 2 - 16 | 100 | 40 | 430E (ER25) | 80 / 10-160 | 506.68 | 21668 |
| BT 50 | 2 - 20 | 80 | 50 | 470E (ER32) | 125 / 15-250 | 407.99 | 12068 |
| BT 50 | 2 - 20 | 100 | 50 | 470E (ER32) | 125 / 15-250 | 506.68 | 22068 |

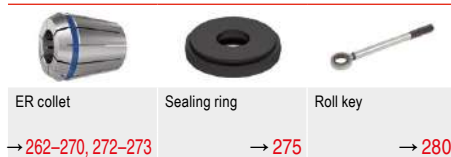


Dimension LPR is 4.5 mm longer for ER16 and ER32 and 5.0 mm longer for ER25 when using thro' coolant lock nut

| | Lock nut IK | Lock nut | Backstop screw PCC 2 | Backstop screw PCC 1 |
|-------------|-------------------|-------------------|----------------------|----------------------|
| | 82 950 ... | 82 950 ... | 82 950 ... | 82 950 ... |
| | £ Y8 | £ Y8 | £ Y8 | £ Y8 |
| 426E (ER16) | 82.32 11000 | 77.57 01000 | M8X3,0 | 7.75 00100 |
| 430E (ER25) | 82.32 11600 | 77.57 01600 | M18x1,5 | 10.55 00200 |
| 470E (ER32) | 82.32 12000 | 77.57 02000 | M18x1,5 | 10.55 00200 |
| | | | M8x8 | 7.75 00300 |
| | | | M8x8 | 7.75 00300 |

Spare parts for collet

Accessories



→ 262-270, 272-273

→ 275

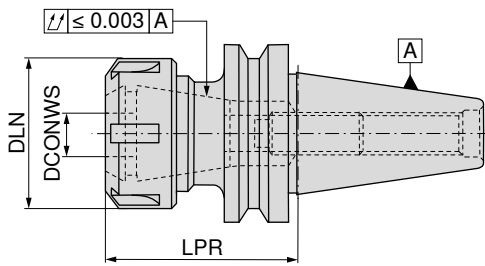
→ 280

ER-Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



AD
G 2,5 n_{max} 25000



AD/B
G 2,5 n_{max} 25000

| | Adapter | DCONWS mm | LPR mm | DLN mm | TQX Nm | for collet | AD | | AD/B | |
|---------------|------------|--------------|-----------|-----------|-----------|------------------|-------------|-------|--------|--------|
| | | | | | | | £ | | £ | |
| short | BT 30 | 1 - 10 | 70 | 32 | 56 | 426E (ER16) | Y8/3B | | Y8/3B | |
| | BT 30 | 1 - 16 | 70 | 42 | 104 | 430E (ER25) | 135.95 | 01000 | | |
| | BT 30 | 2 - 20 | 70 | 50 | 136 | 470E (ER32) | 135.95 | 02000 | | |
| | BT 40 | 1 - 10 | 60 | 22 | 56 | 426E (ER16 mini) | | | 195.87 | 11169 |
| | BT 40 | 1 - 10 | 60 | 32 | 56 | 426E (ER16) | | | 106.76 | 110 |
| | BT 40 | 1 - 16 | 70 | 42 | 104 | 430E (ER25) | | | 111.95 | 116 |
| | BT 40 | 2 - 20 | 70 | 50 | 136 | 470E (ER32) | | | 111.95 | 120 |
| | BT 40 | 3 - 26 | 70 | 63 | 176 | 472E (ER40) | | | 118.18 | 126 |
| | BT 50 | 1 - 10 | 75 | 32 | 56 | 426E (ER16) | 225.77 | 31000 | | |
| | BT 50 | 1 - 16 | 75 | 42 | 104 | 430E (ER25) | 202.37 | 31600 | | |
| | BT 50 | 2 - 20 | 75 | 50 | 136 | 470E (ER32) | 181.42 | 32000 | | |
| | BT 50 | 4 - 26 | 75 | 63 | 176 | 472E (ER40) | 185.13 | 32600 | | |
| medium length | BT 30 | 1 - 10 | 100 | 32 | 56 | 426E (ER16) | 159.86 | 21000 | | |
| | BT 30 | 1 - 16 | 100 | 42 | 104 | 430E (ER25) | 159.86 | 21600 | | |
| | BT 40 | 1 - 10 | 120 | 22 | 56 | 426E (ER16 mini) | | | 195.87 | 21169 |
| | BT 40 | 1 - 10 | 120 | 32 | 56 | 426E (ER16) | | | 122.04 | 410 |
| | BT 40 | 1 - 16 | 120 | 42 | 104 | 430E (ER25) | | | 122.04 | 416 |
| | BT 40 | 2 - 20 | 120 | 50 | 136 | 470E (ER32) | | | 122.04 | 420 |
| | BT 40 | 3 - 26 | 100 | 63 | 176 | 472E (ER40) | | | 173.92 | 42600 |
| | BT 50 | 1 - 10 | 100 | 32 | 56 | 426E (ER16) | 228.99 | 71000 | | |
| | BT 50 | 1 - 16 | 100 | 42 | 104 | 430E (ER25) | 211.91 | 71600 | | |
| | BT 50 | 2 - 20 | 100 | 50 | 136 | 470E (ER32) | 227.29 | 72000 | | |
| | BT 50 | 3 - 26 | 100 | 63 | 176 | 472E (ER40) | 239.07 | 72600 | | |
| | extra-long | BT 40 | 1 - 10 | 160 | 32 | 56 | 426E (ER16) | | | 187.12 |
| BT 40 | | 1 - 16 | 160 | 42 | 104 | 430E (ER25) | | | 233.16 | 51600 |
| BT 40 | | 2 - 20 | 160 | 50 | 136 | 470E (ER32) | | | 253.09 | 52000 |
| BT 40 | | 3 - 26 | 160 | 63 | 176 | 472E (ER40) | | | 195.00 | 52600 |
| BT 50 | | 1 - 16 | 160 | 42 | 104 | 430E (ER25) | 235.10 | 81600 | | |
| BT 50 | | 2 - 20 | 160 | 50 | 136 | 470E (ER32) | 259.73 | 82000 | | |

| Spare parts for collet | Lock nut IK | Lock nut | Y clamping key | ER Mini clamping key | Mini lock nut | Mini IK | Stop screw IK | Stop screw IK |
|------------------------|-------------|----------|----------------|----------------------|---------------|---------|---------------|---------------|
| 426E (ER16 mini) | | | | | | | | |
| 426E (ER16) | | | | | | | | |
| 430E (ER25) | | | | | | | | |
| 470E (ER32) | | | | | | | | |
| 472E (ER40) | | | | | | | | |

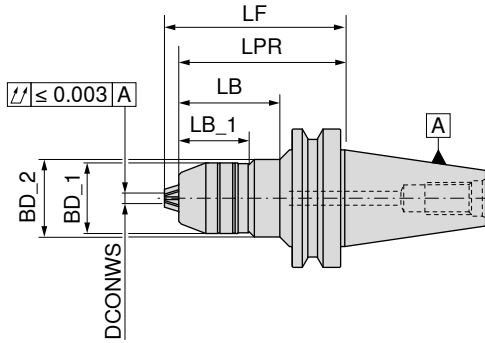
1 Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts

Short drill chuck – NC 2010

- ▲ Independent of direction of rotation
- ▲ Torque Moment = 12 Nm
- ▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder including clamping key SW4



A
G 6,3 n_{max} 10000



AD
G 6,3 n_{max} 10000

| Adapter | DCONWS mm | BD_1 mm | BD_2 mm | LB_1 mm | LB mm | LPR mm | LF mm |
|---------|--------------|------------|------------|------------|----------|-----------|----------|
| BT 40 | 0,5 - 13 | 48.5 | | 50.9 | 80 | 80 | 89.0 |
| BT 40 | 2,5 - 16 | 51.0 | | 50.9 | 80 | 80 | 90.5 |
| BT 50 | 2,5 - 16 | 51.0 | 56 | 50.9 | 73 | 120 | 130.5 |

| 84 509 ... | | 84 510 ... | |
|------------|-----|------------|-----|
| £ | | £ | |
| Y8 | | Y8 | |
| 536.37 | 413 | 486.62 | 413 |
| 444.48 | 416 | 477.87 | 416 |
| 632.47 | 516 | 665.84 | 516 |

Accessories



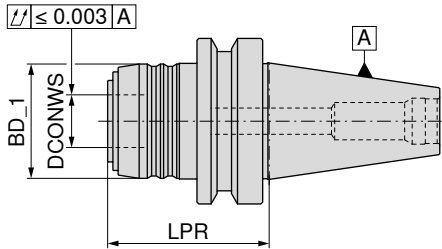
Others

→ 278

Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Synchro tapping chuck with minimum length compensation

- ▲ For collets according to DIN 6499
- ▲ With length compensation under tension 1,0 mm and under compression 0,2 mm (LZD)
- ▲ $p_{max} = 50$ bar
- ▲ for synchro use
- ▲ also available with Balluff chip **on request**




AD


83 515 ...

| Adapter | cutting range | SZID | LPR mm | BD_1 mm | DCONWS mm | LZD± mm | £ | |
|---------|---------------|------|-----------|------------|--------------|------------|--------|-----|
| BT 40 | M3 - M12 | 1 | 61 | 43 | 20 | 1,0 / 0,2 | 346.27 | 012 |
| BT 40 | M6 - M20 | 2 | 82 | 60 | 32 | 1,0 / 0,2 | 449.17 | 020 |
| BT 50 | M3 - M12 | 1 | 72 | 43 | 20 | 1,0 / 0,2 | 376.14 | 112 |
| BT 50 | M6 - M20 | 2 | 93 | 60 | 32 | 1,0 / 0,2 | 582.18 | 120 |

Accessories



Pull studs
→ 108-109



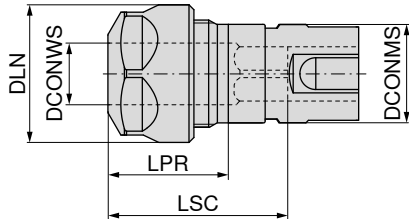
Others
→ 278

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



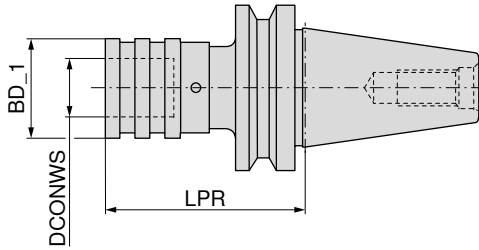
| SZID | DCONWS mm | cutting range | LPR mm | DLN mm | LSC mm | for collet | DCONMS mm | 83 608 ... | |
|------|-----------|---------------|--------|--------|--------|-------------|-----------|------------|-------------------|
| 1 | 2 - 10 | M3 - M12 | 24 | 28 | 42 | 426E (ER16) | 20 | £ Y8 | |
| 2 | 2 - 16 | M6 - M20 | 28 | 42 | 59 | 430E (ER25) | 32 | 236.04 | 012 ¹⁾ |
| | | | | | | | | 274.95 | 020 |

1) with 6 position lock nut

| Spare parts for Article no. | Lock nut | | Lock nut IK | | Lock nut | | Y clamping key | | | | |
|-----------------------------|----------------|-----------|-------------|-----------|-------------|-----------|----------------|-----------|-----|-------|-----|
| | Article no. | Price (£) | Article no. | Price (£) | Article no. | Price (£) | Article no. | Price (£) | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 83 608 012 | M22x1,5 - SW25 | 32.23 | 044 | M22x1,5 | 82.98 | 054 | M22x1,5 | 25.64 | 054 | 28.20 | 116 |
| 83 608 020 | | | | M32x1,5 | 96.66 | 055 | M32x1,5 | 26.70 | 055 | 28.20 | 125 |

Quick change tap chuck with length compensation

- ▲ With length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip **on request**



A

83 528 ...

| Adapter | cutting range | SZID | LPR | BD_1 | DCONWS | LZD± | £ | |
|---------|---------------|------|-----|------|--------|------|--------|-----|
| BT 30 | M3 - M12 | 01 | 63 | 38 | 19 | 9 | 588.80 | 312 |
| BT 30 | M6 - M20 | 02 | 96 | 55 | 31 | 15 | 738.41 | 320 |
| BT 40 | M3 - M12 | 01 | 68 | 38 | 19 | 9 | 472.44 | 412 |
| BT 40 | M6 - M20 | 02 | 93 | 55 | 31 | 15 | 490.14 | 420 |
| BT 50 | M3 - M12 | 01 | 80 | 38 | 19 | 9 | 791.71 | 512 |
| BT 50 | M6 - M20 | 02 | 102 | 55 | 31 | 15 | 911.44 | 520 |

Accessories

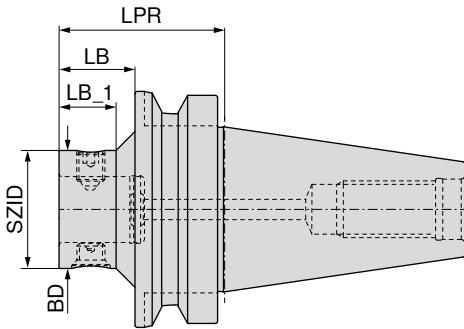
| | | |
|---|---|---|
|  |  |  |
| Collet | Pull studs | Others |
| → 282, 284-286 | → 108-109 | → 278 |

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc



AD



AD/B

| Adapter | KOMET no. | SZID | BD | LPR | LB | LB_1 | 84 202 ... | | 84 212 ... | |
|---------|-----------|---------|-----|-----|----|------|------------|-------|------------|-------|
| | | | | | | | £ | | £ | |
| BT 40 | A55 00120 | ABS 25 | 25 | 60 | 33 | 25 | 3E | | | |
| BT 40 | A55 00130 | ABS 32 | 32 | 60 | 33 | | 225.31 | 04090 | | |
| BT 40 | A55 00140 | ABS 40 | 40 | 60 | 33 | | 225.31 | 04088 | | |
| BT 40 | A55 55150 | ABS 50 | 50 | 60 | 33 | | | | 225.31 | 04097 |
| BT 40 | A55 55160 | ABS 63 | 63 | 70 | | | | | 225.31 | 04096 |
| BT 50 | A55 00330 | ABS 32 | 32 | 70 | 32 | 24 | 254.07 | 05089 | | |
| BT 50 | A55 00340 | ABS 40 | 40 | 70 | 32 | 24 | 254.07 | 05088 | | |
| BT 50 | A55 55350 | ABS 50 | 50 | 70 | 32 | 24 | | | 254.07 | 05097 |
| BT 50 | A55 55360 | ABS 63 | 63 | 80 | 42 | 37 | | | 254.07 | 05096 |
| BT 50 | A55 55370 | ABS 80 | 80 | 100 | 62 | | | | 254.07 | 05092 |
| BT 50 | A55 55380 | ABS 100 | 100 | 110 | | | | | 254.07 | 05091 |

Conversion kit – Cooling agent supply



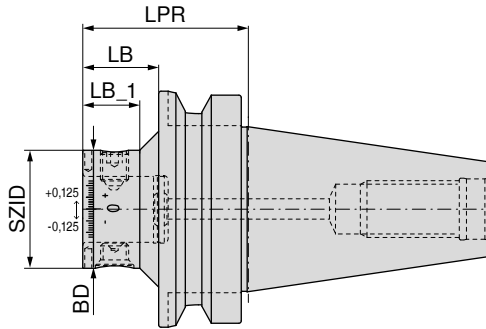
| | | 84 950 ... |
|------|---------|---------------------|
| for | Adapter | £ |
| 4 mm | SK 40 | W7/6B 6.96 23200 |
| 6 mm | SK 50 | 6.96 23400 |

Eccentric adjuster with ABS Connection

- ▲ Adjustment ± 0.25 mm on diameter
- ▲ also available with Balluff chip **on request**

Scope of supply:

Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc



AD



AD/B

| Adapter | KOMET no. | SZID | BD mm | LPR mm | LB mm | LB_1 mm |
|---------|-----------|--------|----------|-----------|----------|------------|
| BT 40 | A55 56150 | ABS 50 | 50 | 60 | 33 | |
| BT 40 | A55 56160 | ABS 63 | 63 | 70 | | |
| BT 50 | A55 56350 | ABS 50 | 50 | 70 | 32 | 24 |
| BT 50 | A55 56360 | ABS 63 | 63 | 80 | 42 | 37 |

84 205 ...

£
W4/6A

781.53 04096

894.82 05096

84 205 ...

£
W4/6A

607.16 04097

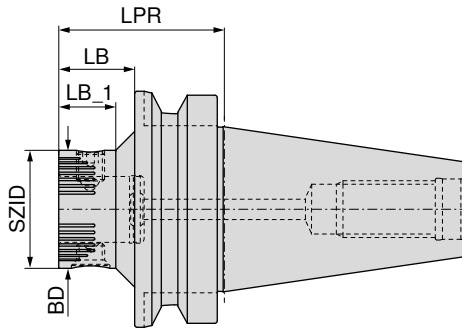
681.10 05097

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

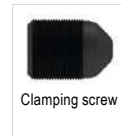
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc



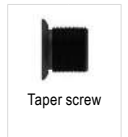
AD/B

84 208 ...

| Adapter | KOMET no. | SZID | BD mm | LPR mm | LB mm | LB_1 mm | | |
|---------|-----------|--------|----------|-----------|----------|------------|--------|-------|
| BT 40 | A55 02150 | ABS 50 | 50 | 60 | 33 | | £ 3E | |
| BT 40 | A55 02160 | ABS 63 | 63 | 70 | | | 657.48 | 04097 |
| | | | | | | | 652.32 | 04096 |
| BT 50 | A55 02350 | ABS 50 | 50 | 70 | 32 | 24 | 725.61 | 05097 |
| BT 50 | A55 02360 | ABS 63 | 63 | 80 | 42 | 37 | 788.47 | 05096 |



Clamping screw



Taper screw

84 950 ...

£ XX

10.95 20300

84 950 ...

£ XX

13.91 20400

Spare parts

SZID

ABS 50

ABS 63

Accessories



Pull studs

→ 108-109



Extension

→ 183

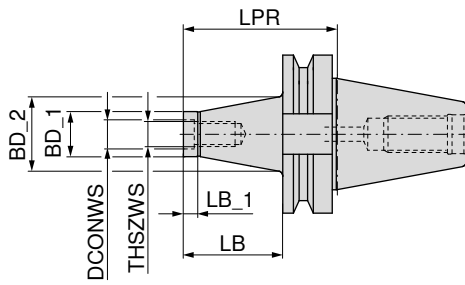


Others

→ 278

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 711 ...

| Adapter | THSZWS | DCONWS | LB | BD_1 | BD_2 | LB_1 | LPR | £ | |
|---------|--------|--------|-----|------|------|------|-----|--------|-----|
| | | mm | mm | mm | mm | mm | mm | WA | |
| BT 40 | M8 | 8.5 | 25 | 13.8 | 15 | 12 | 52 | 245.24 | 081 |
| BT 40 | M8 | 8.5 | 50 | 13.8 | 23 | 12 | 77 | 251.24 | 082 |
| BT 40 | M8 | 8.5 | 75 | 13.8 | 25 | 12 | 102 | 257.05 | 083 |
| BT 40 | M10 | 10.5 | 25 | 18.0 | 23 | 12 | 52 | 245.24 | 101 |
| BT 40 | M10 | 10.5 | 50 | 18.0 | 25 | 12 | 77 | 251.24 | 102 |
| BT 40 | M10 | 10.5 | 75 | 18.0 | 30 | 12 | 102 | 257.05 | 103 |
| BT 40 | M12 | 12.5 | 25 | 21.0 | 24 | 12 | 52 | 245.24 | 121 |
| BT 40 | M12 | 12.5 | 50 | 21.0 | 30 | 12 | 77 | 251.24 | 122 |
| BT 40 | M12 | 12.5 | 75 | 21.0 | 35 | 12 | 102 | 257.05 | 123 |
| BT 40 | M12 | 12.5 | 100 | 21.0 | 38 | 12 | 127 | 263.03 | 124 |
| BT 40 | M16 | 17.0 | 25 | 29.0 | 29 | 12 | 52 | 245.24 | 161 |
| BT 40 | M16 | 17.0 | 50 | 29.0 | 34 | 12 | 77 | 251.24 | 162 |
| BT 40 | M16 | 17.0 | 75 | 29.0 | 35 | 12 | 102 | 257.05 | 163 |
| BT 40 | M16 | 17.0 | 100 | 29.0 | 40 | 12 | 127 | 263.03 | 164 |

Accessories

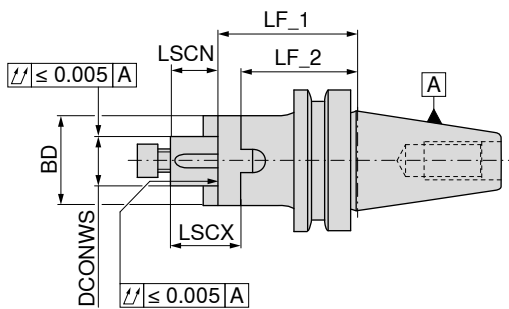
| | | |
|----------------------------------|-------------------------|-----------------|
| | | |
| Extension-Reduction set → 251 | Pull studs → 108-109 | Others → 278 |

Combination shell mill adapter

- ▲ For milling cutters with transverse or longitudinal groove according to DIN 6358
- ▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



A
G 2,5 n_{max} 25000

82 516 ...

| | Adapter | DCONWS mm | LF_1 mm | BD mm | LSCX mm | LSCN mm | LF_2 mm | | | |
|-------|---------------|--------------|------------|----------|------------|------------|------------|----|--|--|
| short | BT 30 | 16 | 45 | 32 | 27 | 17 | 35 | | | |
| | BT 30 | 22 | 47 | 40 | 31 | 19 | 35 | | | |
| | BT 30 | 27 | 49 | 46 | 33 | 21 | 37 | | | |
| | BT 40 | 16 | 55 | 32 | 27 | 17 | 45 | | | |
| | BT 40 | 22 | 55 | 40 | 31 | 19 | 43 | | | |
| | BT 40 | 27 | 55 | 48 | 33 | 21 | 43 | | | |
| | BT 40 | 32 | 60 | 58 | 38 | 24 | 46 | | | |
| | BT 40 | 40 | 60 | 70 | 41 | 27 | 46 | | | |
| | BT 50 | 16 | 70 | 32 | 27 | 17 | 60 | | | |
| | BT 50 | 22 | 70 | 40 | 31 | 19 | 58 | | | |
| | BT 50 | 27 | 70 | 48 | 33 | 21 | 58 | | | |
| | BT 50 | 32 | 70 | 58 | 38 | 24 | 56 | | | |
| | BT 50 | 40 | 70 | 70 | 41 | 27 | 56 | | | |
| | medium length | BT 30 | 16 | 80 | 32 | 27 | 17 | 70 | | |
| | | BT 30 | 22 | 80 | 40 | 31 | 19 | 68 | | |
| BT 30 | | 27 | 90 | 48 | 33 | 21 | 78 | | | |
| BT 40 | | 16 | 100 | 32 | 27 | 17 | 90 | | | |
| BT 40 | | 22 | 100 | 40 | 31 | 19 | 88 | | | |
| BT 40 | | 27 | 100 | 48 | 33 | 21 | 88 | | | |
| BT 40 | | 32 | 100 | 58 | 38 | 24 | 86 | | | |
| BT 40 | | 40 | 100 | 70 | 41 | 27 | 86 | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

1) With cross screw

| Parallel key | Drive ring | Cross nut key | Cross screw | clamping screw |
|-------------------|-------------------|-------------------|-------------------|-------------------|
| 83 950 ... | 83 370 ... | 83 368 ... | 83 367 ... | 83 950 ... |
| £ Y8/3B | £ Y8 | £ Y8 | £ Y8 | £ Y8/3B |
| 4.17 284 | 15.42 116 | 25.47 116 | 6.77 016 | 7.18 113 |
| 4.17 285 | 14.79 122 | 31.70 122 | 7.53 022 | 8.10 124 |
| 6.62 286 | 18.45 127 | 37.27 127 | 9.63 027 | 8.95 125 |
| 4.72 287 | 19.36 132 | 50.79 132 | 15.12 032 | 10.90 126 |
| 5.57 288 | 32.61 140 | 50.45 140 | 16.18 040 | 12.02 112 |

Spare parts

DCONWS

| | | |
|----|------|-----|
| 16 | 4.17 | 284 |
| 22 | 4.17 | 285 |
| 27 | 6.62 | 286 |
| 32 | 4.72 | 287 |
| 40 | 5.57 | 288 |

Accessories

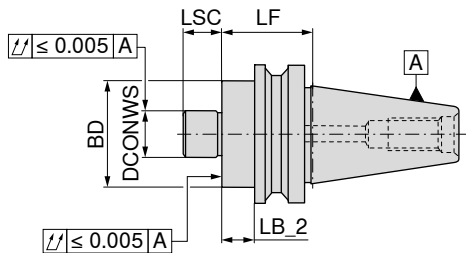
| | | |
|------------|-----------------------|--------|
| | | |
| Pull studs | Milling Adapter Rings | Others |
| → 108-109 | → 257 | → 278 |

Shell mill adapter with reduced flange diameter

- ▲ Screwed drive dogs
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with retaining screw and drive dog



AD
G 2,5 n_{max} 25000

82 315 ...

| | |
|--------|-------|
| £ | |
| Y8/3B | 12269 |
| 108.93 | 12769 |
| 156.45 | 12268 |
| 161.41 | 12768 |

| Adapter | DCONWS mm | BD mm | LB_2 mm | LF mm | LSC mm |
|---------|-----------|-------|---------|-------|--------|
| BT 40 | 22 | 38 | 33 | 60 | 19 |
| | 27 | 48 | 25 | 52 | 21 |
| BT 50 | 22 | 38 | 22 | 60 | 19 |
| | 27 | 48 | 25 | 63 | 21 |

short

i These shell mill adapters have been specially developed for MaxiMill 211-KN porcupine cutters. Now they can be clamped perfectly, thanks to the adapted flange diameters.



Screw for drivers



Driver



clamping screw

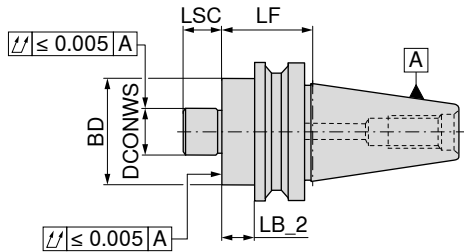
| Spare parts | | 83 950 ... | 83 950 ... | 83 950 ... |
|-------------|------|------------|------------|-------------|
| DCONWS | | £ | £ | £ |
| 22 | M4x8 | 0.76 51700 | 10x7x20,5 | 10.73 51500 |
| 27 | M5x8 | 0.93 51800 | 12x9x24,3 | 12.23 51600 |
| | | | | M10x25 |
| | | | | M12x30 |
| | | | | 8.10 124 |
| | | | | 8.95 125 |

Shell mill adapter

- ▲ With fixed drive dogs and enlarged contact face for milling cutters with transverse groove
- ▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder with clamping screw



A
G 2,5 n_{max} 25000



AD
G 2,5 n_{max} 25000



AD/B
G 2,5 n_{max} 25000

| | Adapter | DCONWS mm | LB_2 mm | LF mm | BD mm | LSC mm | A | | AD | | AD/B | |
|---------------|---------|--------------|------------|----------|----------|-----------|--------|--------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | £ | | £ | | £ | |
| short | BT 30 | 16 | 18 | 40 | 38 | 17 | 133.30 | 01600 | | | | |
| | BT 30 | 22 | 18 | 40 | 48 | 19 | 133.30 | 02200 | | | | |
| | BT 30 | 27 | 18 | 50 | 58 | 21 | 151.97 | 02700 | | | | |
| | BT 30 | 32 | 28 | 50 | 78 | 24 | 165.38 | 03200 | | | | |
| | BT 40 | 16 | 25 | 52 | 38 | 17 | | | | | 138.59 | 116 |
| | BT 40 | 22 | 25 | 52 | 48 | 19 | | | | | 150.80 | 122 |
| | BT 40 | 27 | 25 | 52 | 58 | 21 | | | | | 152.53 | 127 |
| | BT 40 | 32 | 23 | 50 | 78 | 24 | | | | | 160.92 | 132 |
| | BT 40 | 40 | 23 | 50 | 88 | 27 | | | | | 174.88 | 140 ¹⁾ |
| | BT 50 | 16 | 25 | 63 | 38 | 17 | | | 203.66 | 316 | | |
| | BT 50 | 22 | 25 | 63 | 48 | 19 | | | 210.46 | 322 | | |
| | BT 50 | 27 | 25 | 63 | 58 | 21 | | | 215.47 | 327 | | |
| BT 50 | 32 | 22 | 60 | 78 | 24 | | | 234.82 | 332 | | | |
| BT 50 | 40 | 22 | 60 | 88 | 27 | | | 239.66 | 340 ¹⁾ | | | |
| medium length | BT 40 | 16 | 73 | 100 | 38 | 17 | | | | | 148.93 | 416 |
| | BT 40 | 22 | 73 | 100 | 48 | 19 | | | | 157.50 | 422 | |
| | BT 40 | 27 | 73 | 100 | 58 | 21 | | | | 160.92 | 427 | |
| | BT 40 | 32 | 73 | 100 | 78 | 24 | | | | 169.47 | 432 | |
| | BT 40 | 40 | 73 | 100 | 88 | 27 | | | | 179.85 | 440 ¹⁾ | |
| | BT 50 | 16 | 62 | 100 | 38 | 17 | | | 259.45 | 616 | | |
| | BT 50 | 22 | 62 | 100 | 48 | 19 | | | 265.73 | 622 | | |
| | BT 50 | 27 | 62 | 100 | 58 | 21 | | | 274.25 | 627 | | |
| | BT 50 | 32 | 62 | 100 | 78 | 24 | | | 282.97 | 632 | | |
| | BT 50 | 40 | 62 | 100 | 88 | 27 | | | 289.09 | 640 ¹⁾ | | |
| long | BT 40 | 16 | 103 | 130 | 38 | 17 | | | | | 157.83 | 816 |
| | BT 40 | 22 | 103 | 130 | 48 | 19 | | | | 162.99 | 822 | |
| | BT 40 | 27 | 103 | 130 | 58 | 21 | | | | 165.50 | 827 | |
| | BT 40 | 32 | 103 | 130 | 78 | 24 | | | | 173.43 | 832 | |
| | BT 40 | 40 | 103 | 130 | 88 | 27 | | | | 181.13 | 840 ¹⁾ | |
| | BT 50 | 16 | 92 | 130 | 38 | 17 | | | 220.97 | 916 | | |
| | BT 50 | 22 | 92 | 130 | 48 | 19 | | | 225.64 | 922 | | |
| | BT 50 | 27 | 92 | 130 | 58 | 21 | | | 232.37 | 927 | | |
| | BT 50 | 32 | 92 | 130 | 78 | 24 | | | 239.12 | 932 | | |
| | BT 50 | 40 | 92 | 130 | 88 | 27 | | | 243.73 | 940 ¹⁾ | | |
| extra-long | BT 40 | 16 | 133 | 160 | 38 | 17 | | | | | 204.21 | 516 |
| | BT 40 | 22 | 133 | 160 | 48 | 19 | | | | 210.46 | 522 | |
| | BT 40 | 27 | 133 | 160 | 58 | 21 | | | | 213.60 | 527 | |
| | BT 40 | 32 | 133 | 160 | 78 | 24 | | | | 223.72 | 532 | |
| | BT 40 | 40 | 133 | 160 | 88 | 27 | | | | 233.11 | 540 ¹⁾ | |
| | BT 50 | 16 | 122 | 160 | 38 | 17 | | | 284.93 | 716 | | |
| | BT 50 | 22 | 122 | 160 | 48 | 19 | | | 291.06 | 722 | | |
| | BT 50 | 27 | 122 | 160 | 58 | 21 | | | 299.74 | 727 | | |
| | BT 50 | 32 | 122 | 160 | 78 | 24 | | | 308.45 | 732 | | |
| | BT 50 | 40 | 122 | 160 | 88 | 27 | | | 314.40 | 740 ¹⁾ | | |

1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters



Cross nut key



Cross screw



clamping screw

| Spare parts DCONWS | 83 368 ... | | 83 367 ... | | 83 950 ... | |
|-----------------------|------------|-----|------------|-----|------------|-----|
| | £ Y8 | | £ Y8 | | £ Y8/3B | |
| 16 | 25.47 | 116 | 6.77 | 016 | 7.18 | 113 |
| 22 | 31.70 | 122 | 7.53 | 022 | 8.10 | 124 |
| 27 | 37.27 | 127 | 9.63 | 027 | 8.95 | 125 |
| 32 | 50.79 | 132 | 15.12 | 032 | 10.90 | 126 |
| 40 | 50.45 | 140 | 16.18 | 040 | 12.02 | 112 |



Screw for drivers



Driver

| Spare parts DCONWS | 83 950 ... | | 83 950 ... | |
|-----------------------|------------|-----|------------|-----|
| | £ Y8/3B | | £ Y8/3B | |
| 16 | 1.23 | 296 | 17.35 | 120 |
| 22 | 1.61 | 297 | 17.91 | 121 |
| 27 | 1.66 | 136 | 19.75 | 122 |
| 32 | 1.75 | 137 | 19.96 | 123 |
| 40 | 1.99 | 138 | 26.57 | 295 |

Accessories

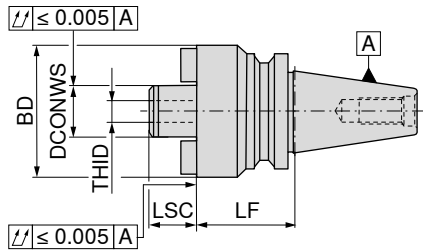
| | | |
|------------|------------|--------|
| | | |
| Pull studs | Extensions | Others |
| → 108-109 | → 256 | → 278 |

Large diameter facemill adapter

- ▲ For milling cutters with keyway or drive slot DIN 6357
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws



A
G 6,3 n_{max} 8000

82 519 ...

| | |
|--------|-----|
| £ | |
| Y8/3B | |
| 390.15 | 240 |
| 477.89 | 260 |

| Adapter | DCONWS mm | LF mm | BD mm | LSC mm | THID |
|---------|-----------|-------|-------|--------|------|
| BT 50 | 40 | 70 | 89 | 30 | M20 |
| BT 50 | 60 | 80 | 129 | 40 | M30 |



Screw for drivers



Driver



Socket head screw



clamping screw

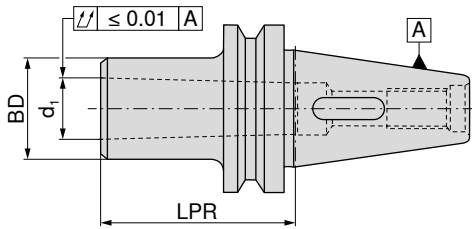
| Spare parts | £ | 83 950 ... | £ | 83 950 ... | £ | 70 950 ... | £ | 83 950 ... | |
|-------------|-------|------------|-------|----------------|-------|------------|---------------|------------|-----|
| DCONWS | Y8/3B | | Y8/3B | | 2A/28 | | Y8/3B | | |
| 40 | | 1.99 | 138 | 15,9x16,3x19,5 | 26.57 | 295 | M12x50 | 8.94 | 140 |
| 60 | | | | 25,4x16,3x26,5 | 29.95 | 298 | M12x30 - SW10 | 9.74 | 181 |
| | | | | | | | M16x45 | 18.37 | 160 |

Accessories

| | |
|------------|--------|
| | |
| Pull studs | Others |
| → 108-109 | → 278 |

Taper sleeve adapter DIN6383 for DIN 228-2D Morse taper shanks

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

82 525 ...

| Adapter | d ₁ | LPR | BD | | |
|---------|----------------|-----|----|--|--|
| | | mm | mm | | |
| BT 30 | MK1 | 50 | 25 | | |
| BT 30 | MK2 | 60 | 32 | | |
| BT 30 | MK3 | 77 | 40 | | |
| BT 40 | MK1 | 50 | 25 | | |
| BT 40 | MK2 | 50 | 32 | | |
| BT 40 | MK3 | 70 | 40 | | |
| BT 40 | MK4 | 95 | 48 | | |
| BT 50 | MK1 | 45 | 25 | | |
| BT 50 | MK2 | 60 | 32 | | |
| BT 50 | MK3 | 65 | 40 | | |
| BT 50 | MK4 | 95 | 48 | | |
| BT 50 | MK5 | 105 | 63 | | |

| £ | |
|--------|-------|
| Y8/3B | |
| 139.91 | 01000 |
| 128.04 | 02000 |
| 128.04 | 03000 |
| 121.47 | 110 |
| 124.91 | 120 |
| 133.57 | 130 |
| 140.39 | 140 |
| 152.53 | 210 |
| 157.50 | 220 |
| 216.95 | 230 |
| 169.47 | 240 |
| 185.13 | 250 |

Accessories

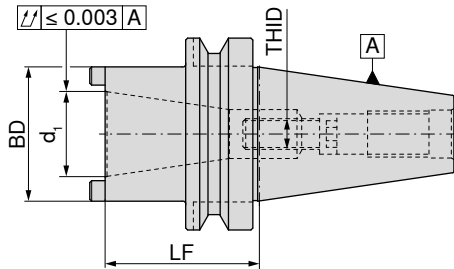
| | | |
|---|---|---|
|  |  |  |
| Morse taper adapter sleeve | Pull studs | Others |
| → 236 | → 108-109 | → 278 |

Milling adapter sleeve

- ▲ For mounting steep taper adapters according to DIN 2080
- ▲ With an extended retaining screw, adapters compliant with ISO 7388-1 – SK, ISO 7388-2 – MAS-BT and ANSI-CAT can also be clamped
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with clamping screw for DIN 2080 adapters



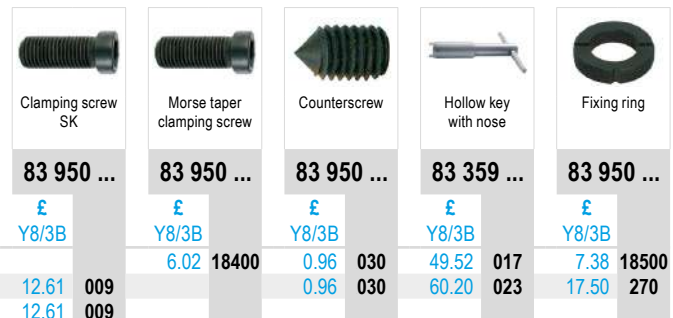
A

82 518 ...

| Adapter | d ₁ | LF mm | BD mm | THID | £ | |
|---------|----------------|----------|----------|------|--------|-------|
| BT 40 | SK 30 | 60 | 51 | M12 | 246.41 | 10600 |
| BT 40 | SK 40 | 100 | 63 | M16 | 246.41 | 11000 |
| BT 50 | SK 40 | 80 | 70 | M16 | 387.01 | 250 |

Spare parts for Article no.

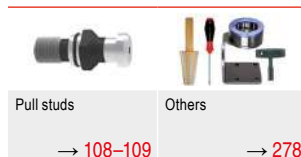
| Article no. | Clamping screw SK | Morse taper clamping screw | Counterscrew | Hollow key with nose | Fixing ring |
|--------------|-------------------|----------------------------|--------------|----------------------|--------------|
| 82 518 10600 | £ 12.61 009 | £ 6.02 18400 | £ 0.96 030 | £ 49.52 017 | £ 7.38 18500 |
| 82 518 11000 | £ 12.61 009 | | £ 0.96 030 | £ 60.20 023 | £ 17.50 270 |
| 82 518 250 | | | | | |



Screw length required when pulling in ISO 7388-1 – SK,
ISO 7388-2 – MAS BT or DIN 2080 shanks

| ISO 7388-2 Suitable for article no. | Taper Shank | Clamping screw length | Clamping screw length |
|--|------------------|--------------------------------|-----------------------|
| | ∅ d ₁ | ISO 7388-1, ISO 7388-2 THID | DIN 2080 THID |
| 82 518 10600 | SK 30 – BT 30 | M12x55 | M12x35 – 83 950 018 |
| 82 518 11000 | SK 40 – BT 40 | M16x60 | M16x35 – 83 950 126 |
| 82 518 250 | SK 50 – BT 50 | M16x70 – 83 950 256 | M16x40 – 83 950 009 |

Accessories



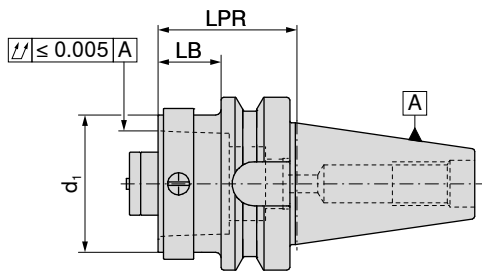
Pull studs → 108–109
Others → 278

BT/HSK-A adapter

- ▲ for mounting HSK-A adapters according to ISO 12164
- ▲ also available with Balluff chip **on request**

Scope of supply:

with clamping cartridge and cover ring



AD

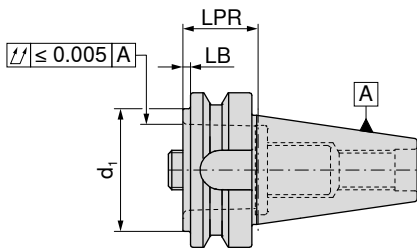
84 016 ...

| Adapter | d ₁ | LB mm | LPR mm | £ Y8 | |
|---------|----------------|----------|-----------|----------|-------|
| BT 50 | HSK-A 100 | 52 | 90 | 1,765.75 | 05055 |
| BT 40 | HSK-A 63 | 43 | 70 | 1,154.77 | 04057 |
| BT 40 | HSK-A 50 | 23 | 50 | 1,175.79 | 04058 |
| BT 40 | HSK-A 40 | 13 | 40 | 1,154.77 | 04059 |
| BT 40 | HSK-A 32 | 13 | 40 | 1,133.50 | 04060 |
| BT 50 | HSK-A 63 | 22 | 60 | 1,554.77 | 05057 |
| BT 50 | HSK-A 50 | 22 | 60 | 1,470.65 | 05058 |
| BT 50 | HSK-A 40 | 12 | 50 | 1,428.60 | 05059 |
| BT 50 | HSK-A 32 | 12 | 50 | 1,428.60 | 05060 |

BT/PSC adapter

- ▲ for mounting PSC adapters according to ISO 26623-1
- ▲ also available with Balluff chip **on request**

Scope of supply:
with tightening screw



AD

84 017 ...

| Adapter | d ₁ | LB mm | LPR mm | £ Y8 | |
|---------|----------------|----------|-----------|----------|-------|
| BT 50 | PSC 80 | 32 | 70 | 1,112.47 | 05086 |
| BT 40 | PSC 32 | 3 | 30 | 733.05 | 04087 |
| BT 40 | PSC 63 | 58 | 85 | 733.05 | 04093 |
| BT 40 | PSC 50 | 3 | 30 | 754.30 | 04094 |
| BT 40 | PSC 40 | 3 | 30 | 754.30 | 04095 |
| BT 50 | PSC 32 | 2 | 40 | 1,006.88 | 05087 |
| BT 50 | PSC 63 | 2 | 40 | 1,070.20 | 05093 |
| BT 50 | PSC 50 | 2 | 40 | 1,028.13 | 05094 |
| BT 50 | PSC 40 | 2 | 40 | 1,175.79 | 05095 |



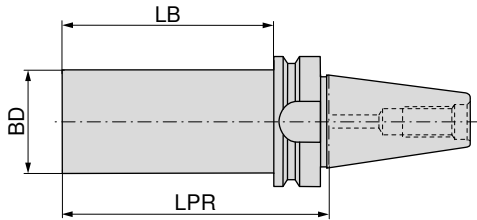
84 950 ...

84 950 ...

| Spare parts DCONWS | £ Y8 | | £ Y8 | |
|-----------------------|---------|-----|---------|-----|
| 22 | 49.77 | 127 | 36.12 | 122 |
| 28 | 49.77 | 128 | 40.71 | 123 |
| 35 | 49.77 | 129 | 40.71 | 124 |
| 44 | 99.37 | 130 | 45.31 | 126 |
| 55 | 99.37 | 130 | 45.31 | 126 |

Blank

- ▲ Material: Steel 17CrNiMo5
- ▲ for production of special tools
- ▲ Diameter BD turned with 0.5 mm oversize
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



A



AD/B

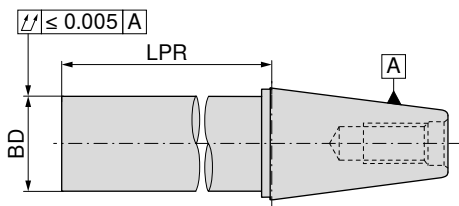
| Adapter | BD mm | LPR mm | LB mm |
|---------|----------|-----------|----------|
| BT 40 | 63.0 | 250 | 223 |
| BT 50 | 63.5 | 300 | 262 |

| 82 523 ... | | 82 523 ... | |
|------------|-----|------------|-----|
| £ | | £ | |
| Y8/3B | | Y8/3B | 040 |
| 331.65 | 050 | 199.20 | |

Test bar

- ▲ Without clamping slots
- ▲ MAS BT 40 special pull stud with LF = 32 mm, Article No. 83 538 040 / 83 535 040

Scope of supply:
in wooden box



A

| Adapter | BD mm | LPR mm |
|------------|----------|-----------|
| SK / BT 40 | 40 | 330 |
| SK / BT 50 | 50 | 330 |

| 82 456 ... | |
|------------|-----|
| £ | |
| Y8/3B | 040 |
| 933.14 | |
| 1,154.26 | 050 |

Accessories



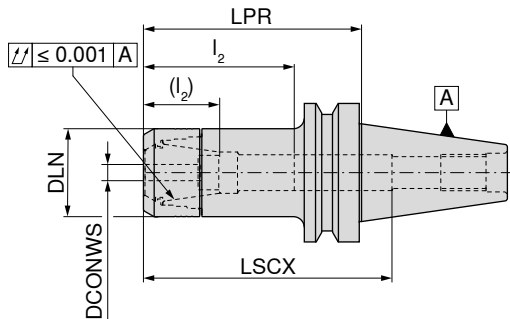
| Pull studs | Others |
|---------------|--------|
| → 59, 108–109 | → 278 |

ER Precision Collet chuck – Centro-P – BT-FC

- ▲ with face contact
- ▲ for standard or sealed nuts
- ▲ maximum clamping range covered according to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without nut, without backstop**



AD
G 2,5 n_{max} 25000

84 525 ...

| Adapter | DCONWS | LPR | DLN | LSCX | l_2 (l_2) | for collet | £ | |
|----------|--------|-----|-----|------|-------------------|-------------|--------|-------|
| BT-FC 30 | 1 - 10 | 75 | 30 | 97 | 28 - 45 (14 - 31) | 426E (ER16) | 307.57 | 002 |
| BT-FC 30 | 1 - 10 | 90 | 30 | 105 | 29 - 41 (29 - 38) | 426E (ER16) | 309.58 | 00400 |
| BT-FC 30 | 1 - 10 | 120 | 30 | 130 | 29 - 45 (29 - 32) | 426E (ER16) | 355.74 | 00600 |
| BT-FC 30 | 2 - 16 | 75 | 40 | 72 | 38 - 56 (23 - 39) | 430E (ER25) | 311.96 | 012 |
| BT-FC 30 | 2 - 20 | 75 | 50 | 84 | 42 - 62 (24 - 45) | 470E (ER32) | 311.96 | 022 |
| BT-FC 40 | 1 - 10 | 75 | 30 | 90 | 38 - 53 (29 - 39) | 426E (ER16) | 342.72 | 102 |
| BT-FC 40 | 1 - 10 | 90 | 30 | 115 | 38 - 53 (29 - 38) | 426E (ER16) | 296.13 | 10400 |
| BT-FC 40 | 1 - 10 | 120 | 30 | 145 | 38 - 53 (29 - 38) | 426E (ER16) | 378.81 | 10600 |
| BT-FC 40 | 1 - 16 | 90 | 40 | 84 | 41 - 64 (36 - 46) | 430E (ER25) | 296.13 | 11400 |
| BT-FC 40 | 2 - 16 | 75 | 40 | 100 | 42 - 59 (36 - 41) | 430E (ER25) | 347.12 | 112 |
| BT-FC 40 | 2 - 16 | 120 | 40 | 113 | 41 - 64 (36 - 46) | 430E (ER25) | 405.72 | 11600 |
| BT-FC 40 | 2 - 20 | 75 | 50 | 100 | 42 - 76 (42 - 52) | 470E (ER32) | 347.12 | 122 |
| BT-FC 40 | 2 - 20 | 90 | 50 | 95 | 41 - 72 (41 - 55) | 470E (ER32) | 296.13 | 12400 |
| BT-FC 40 | 2 - 20 | 120 | 50 | 110 | 41 - 72 (41 - 55) | 470E (ER32) | 405.72 | 12600 |

- 1** LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer

| Spare parts for Article no. | 84 950 ... | | 84 950 ... | | 83 950 ... | | 83 950 ... | | | |
|--------------------------------|------------|-----|------------|-----|---------------|-------|------------|---------------|-------|-----|
| | £ | Y8 | £ | Y8 | £ | Y8 | £ | Y8 | | |
| 84 525 002 | 92.42 | 011 | 68.64 | 001 | M11x1 - SW6 | 57.33 | 341 | M11x1 - SW6 | 38.40 | 337 |
| 84 525 012 | 103.01 | 013 | 76.26 | 003 | M18x1,5 - SW6 | 40.33 | 432 | M18x1,5 - SW6 | 28.76 | 431 |
| 84 525 022 | 110.15 | 015 | 83.89 | 005 | M22x1,5 - SW6 | 34.06 | 402 | M22x1,5 - SW6 | 24.81 | 401 |
| 84 525 102 | 92.42 | 011 | 68.64 | 001 | M11x1 - SW6 | 57.33 | 341 | M11x1 - SW6 | 38.40 | 337 |
| 84 525 112 | 103.01 | 013 | 76.26 | 003 | M18x1,5 - SW6 | 40.33 | 432 | M18x1,5 - SW6 | 28.76 | 431 |
| 84 525 122 | 110.15 | 015 | 83.89 | 005 | M22x1,5 - SW6 | 34.06 | 402 | M22x1,5 - SW6 | 24.81 | 401 |

Accessories

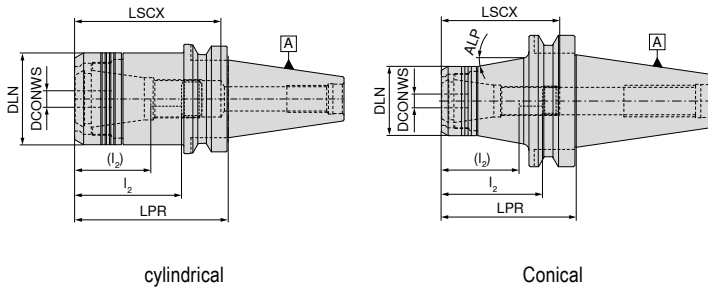
| | | | | | |
|--------------------|--------------|----------|-----------------|------------|--------|
| | | | | | |
| ER collet | Sealing ring | Roll key | Roll key device | Pull studs | Others |
| → 262-270, 272-273 | → 274 | → 280 | → 280 | → 108-109 | → 278 |

ER precision collet chuck – HDC – BT-FC

- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body **including** lock nut, **without** backstop screw



AD

G 6,3 σ_{max} 18000

cylindrical



AD

G 6,3 σ_{max} 18000

conical

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | ALP ° | for collet |
|----------|--------------|-----------|-----------|------------|-----------------------|----------|-------------|
| BT-FC 40 | 2 - 20 | 60 | 53 | 80 | 41 - 63 (27 - 45) | | 470E (ER32) |
| BT-FC 40 | 2 - 20 | 90 | 53 | 95 | 41 - 65 (27 - 47) | | 470E (ER32) |
| BT-FC 50 | 2 - 20 | 75 | 53 | 114 | 41 - 81 (27 - 63) | 10 | 470E (ER32) |
| BT-FC 50 | 2 - 20 | 105 | 53 | 144 | 41 - 81 (27 - 63) | 10 | 470E (ER32) |

| 84 400 ... | 84 400 ... |
|--------------|----------------|
| £ Y8 | £ Y8 |
| 615.25 12064 | |
| 632.13 22064 | |
| | 1,025.41 12063 |
| | 1,035.06 22063 |



LSCX = Clamping depth without backstop screw

l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2

Spare parts

DCONWS

2 - 20

| Lock nut | Stop screw 2 | Stop screw 1 |
|--------------|--------------|--------------|
| 84 950 ... | 83 950 ... | 83 950 ... |
| £ Y8 | £ Y8 | £ Y8 |
| 127.88 30100 | 34.06 402 | 24.81 401 |

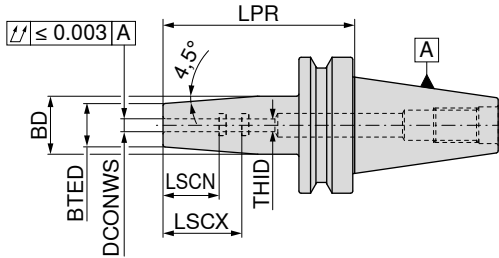
Accessories

| ER collet | Roll key | Roll key device | Pull studs | Others |
|--------------------|----------|-----------------|------------|--------|
| | | | | |
| → 262-270, 272-273 | → 280 | → 280 | → 108-109 | → 278 |

Shrink fit adapters 4.5° – BT-FC

- ▲ with face contact
- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG



AD

G 2,5 n_{max} 25000



AD/B

G 2,5 n_{max} 25000

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD mm | LSCX mm | LSCN mm | THID | 84 325 ... | | |
|-------|----------|--------------|-----------|------------|----------|------------|------------|-------|------------|---------|-----|
| | | | | | | | | | £ Y8 | £ Y8 | |
| short | BT-FC 30 | 3 | 85 | 10 | 17 | 28 | 12 | M6 | 256.77 | 003 | |
| | BT-FC 30 | 4 | 85 | 15 | 22 | 28 | 16 | M6 | 256.77 | 004 | |
| | BT-FC 30 | 5 | 85 | 15 | 22 | 30 | 20 | M6 | 256.77 | 005 | |
| | BT-FC 30 | 6 | 85 | 21 | 27 | 36 | 26 | M5 | 256.77 | 006 | |
| | BT-FC 30 | 8 | 85 | 21 | 27 | 36 | 26 | M6 | 256.77 | 008 | |
| | BT-FC 30 | 10 | 85 | 24 | 32 | 41 | 31 | M8x1 | 256.77 | 010 | |
| | BT-FC 30 | 12 | 85 | 24 | 32 | 47 | 37 | M10x1 | 256.77 | 012 | |
| | BT-FC 30 | 16 | 85 | 27 | 34 | 50 | 40 | M12x1 | 256.77 | 016 | |
| | BT-FC 30 | 20 | 85 | 33 | 42 | 52 | 42 | M16x1 | 256.77 | 020 | |
| | BT-FC 40 | 3 | 90 | 10 | 17 | 28 | 12 | M6 | | 227.92 | 103 |
| | BT-FC 40 | 4 | 90 | 15 | 22 | 28 | 16 | M6 | | 227.92 | 104 |
| | BT-FC 40 | 5 | 90 | 15 | 22 | 30 | 20 | M6 | | 227.92 | 105 |
| | BT-FC 40 | 6 | 90 | 21 | 27 | 36 | 26 | M5 | | 227.92 | 106 |
| | BT-FC 40 | 8 | 90 | 21 | 27 | 36 | 26 | M6 | | 227.92 | 108 |
| | BT-FC 40 | 10 | 90 | 24 | 32 | 41 | 31 | M8x1 | | 227.92 | 110 |
| | BT-FC 40 | 12 | 90 | 24 | 32 | 47 | 37 | M10x1 | | 227.92 | 112 |
| | BT-FC 40 | 16 | 90 | 27 | 34 | 50 | 40 | M12x1 | | 227.92 | 116 |
| | BT-FC 40 | 20 | 90 | 33 | 42 | 52 | 42 | M16x1 | | 227.92 | 120 |
| | BT-FC 40 | 25 | 100 | 44 | 53 | 58 | 48 | M16x1 | | 227.92 | 125 |

Spare parts

| DCONWS | | 83 950 ... | £ Y7 | 83 950 ... | £ Y7 |
|---------|-------------|------------|---------|------------------|---------|
| 3 - 5 | M6x14 - SW2 | 417 | 23.98 | M5x12,5 - SW2,5 | 23.98 |
| 6 | | | | M6x12,5 - SW3 | 23.98 |
| 8 | | | | M8x1x13,5 - SW3 | 23.98 |
| 10 | | | | M10x1x13,5 - SW5 | 23.98 |
| 12 | | | | M12x1x13,5 - SW5 | 23.98 |
| 16 | | | | M16x1x13,5 - SW8 | 27.66 |
| 20 - 25 | | | | | 424 |

Accessories

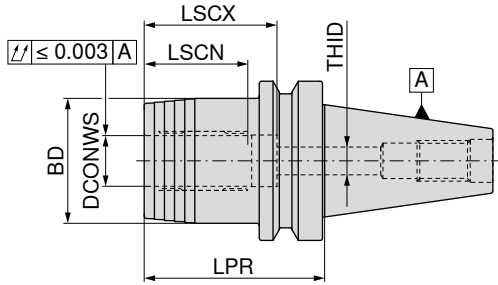
| | | |
|----------------------|------------|--------|
| | | |
| Shrink fit extension | Pull studs | Others |
| → 241 | → 108-109 | → 278 |

High pressure chuck, short and stable version – BT-FC

- ▲ with face contact
- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 527 ...
£
Y8
459.79 120

| Adapter | DCONWS mm | LPR mm | BD mm | LSCX mm | LSCN mm | THID |
|----------|--------------|-----------|----------|------------|------------|------------|
| BT-FC 40 | 20 | 72.5 | 49 | 51 | 40 | M16x1x13,5 |

**Spare parts
for Article no.**

83 527 120



Clamping key – T

80 397 ...

£
Y7

7.73 050



Pressure screw

83 950 ...

£
Y7

21.84 158



Stop screw IK

83 950 ...

£
Y7

23.98 420

SW5

M10x1x10

M8x1x13,5 - SW3

Accessories



Reduction sleeve

→ 276



Pull studs

→ 108-109



Others

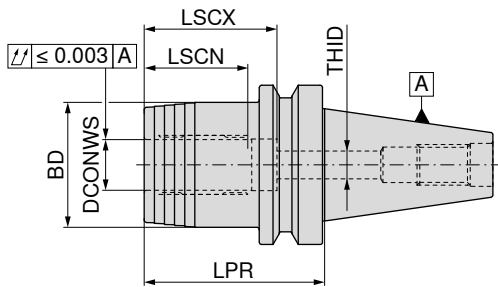
→ 278

Hydraulic chuck MAS BT, short and stable version – BT-FC

- ▲ with face contact
- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

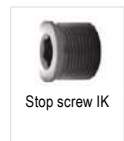
| Adapter | DCONWS mm | LPR mm | BD mm | LSCX mm | LSCN mm | THID |
|----------|--------------|-----------|----------|------------|------------|-------|
| BT-FC 40 | 20 | 72.5 | 49.5 | 51 | 41 | M16x1 |
| BT-FC 50 | 32 | 90.0 | 72.0 | 61 | 51 | M16x1 |

84 518 ...

£
Y8

413.30 120

551.98 332



83 950 ...

£
Y7

M10x1x12 16.61 440

83 950 ...

£
Y7

M16x1x13,5 - SW8 27.66 424

Spare parts

DCONWS

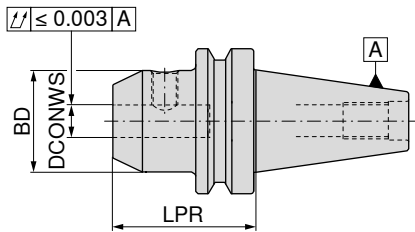
20 - 32

Accessories

| | | |
|------------------|------------|--------|
| | | |
| Reduction sleeve | Pull studs | Others |
| → 276 | → 108-109 | → 278 |

Cylindrical shank adapter (Weldon) – BT-FC

- ▲ with face contact
- ▲ for shanks according to DIN 6535 / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**



AD
G 2,5 n_{max} 25000

84 552 ...

| | Adapter | DCONWS _{H4} mm | LPR mm | BD mm | £ | |
|--------------|----------|----------------------------|-----------|----------|--------|-------------------|
| | | | | | Y8 | |
| short | BT-FC 30 | 6 | 50 | 25 | 133.59 | 006 |
| | BT-FC 30 | 8 | 50 | 28 | 133.59 | 008 |
| | BT-FC 30 | 10 | 50 | 35 | 133.59 | 010 |
| | BT-FC 30 | 12 | 50 | 42 | 133.59 | 012 |
| | BT-FC 30 | 16 | 63 | 48 | 143.34 | 016 |
| | BT-FC 30 | 20 | 63 | 52 | 143.34 | 020 |
| | BT-FC 40 | 6 | 50 | 25 | 169.30 | 106 |
| | BT-FC 40 | 8 | 50 | 28 | 163.81 | 108 |
| | BT-FC 40 | 10 | 63 | 35 | 163.81 | 110 |
| | BT-FC 40 | 12 | 63 | 42 | 163.81 | 112 |
| | BT-FC 40 | 16 | 63 | 48 | 163.81 | 116 |
| | BT-FC 40 | 20 | 63 | 52 | 163.81 | 120 |
| | BT-FC 40 | 25 | 90 | 65 | 217.78 | 125 ¹⁾ |
| | BT-FC 40 | 32 | 100 | 72 | 217.78 | 132 ¹⁾ |
| | BT-FC 50 | 6 | 63 | 25 | 251.28 | 306 |
| | BT-FC 50 | 8 | 63 | 28 | 243.85 | 308 |
| | BT-FC 50 | 10 | 63 | 35 | 243.85 | 310 |
| | BT-FC 50 | 12 | 80 | 42 | 243.85 | 312 |
| | BT-FC 50 | 16 | 80 | 48 | 243.85 | 316 |
| | BT-FC 50 | 20 | 80 | 52 | 243.85 | 320 |
| | BT-FC 50 | 25 | 100 | 65 | 279.16 | 325 ¹⁾ |
| | BT-FC 50 | 32 | 105 | 72 | 279.16 | 332 ¹⁾ |

1) Version with two grub screws




Grubscrew

62 950 ...


Spare parts
DCONWS

| DCONWS | | £ | |
|--------|----------|------|-----|
| | | W7 | |
| 6 | M6x10 | 1.11 | 006 |
| 8 | M8x10 | 1.11 | 008 |
| 10 | M10x12 | 2.12 | 010 |
| 12 | M12x16 | 1.68 | 012 |
| 16 | M14x16 | 2.08 | 016 |
| 20 | M16x16 | 2.21 | 020 |
| 25 | M18x2x20 | 4.27 | 025 |
| 32 | M20x2x20 | 4.46 | 032 |

Accessories



Pull studs
→ 108–109



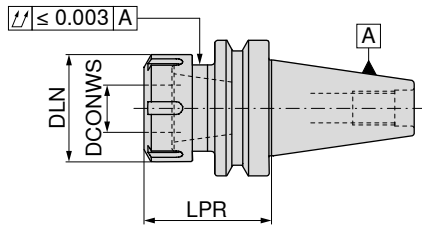
Others
→ 278

ER Collet chuck – BT-FC

- ▲ with face contact
- ▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut

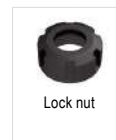


AD
G 2,5 n_{max} 20000

84 557 ...

| | Adapter | DCONWS mm | LPR mm | DLN mm | TQX Nm | for collet | £ | | |
|--------------|----------------------|--------------|-----------|-----------|-----------|-------------|-------------|-------------------|-------------------|
| short | BT-FC 30 | 1 - 10 | 63 | 28 | 56 | 426E (ER16) | 150.76 | 010 ¹⁾ | |
| | BT-FC 30 | 1 - 16 | 60 | 42 | 104 | 430E (ER25) | 150.76 | 016 | |
| | BT-FC 30 | 2 - 20 | 60 | 50 | 136 | 470E (ER32) | 150.76 | 020 | |
| | BT-FC 40 | 1 - 10 | 63 | 28 | 56 | 426E (ER16) | 189.90 | 110 ¹⁾ | |
| | BT-FC 40 | 1 - 16 | 60 | 42 | 104 | 430E (ER25) | 189.90 | 116 | |
| | BT-FC 40 | 2 - 20 | 60 | 50 | 136 | 470E (ER32) | 189.90 | 120 | |
| | BT-FC 50 | 1 - 16 | 70 | 42 | 104 | 430E (ER25) | 258.70 | 316 | |
| | BT-FC 50 | 2 - 20 | 70 | 50 | 136 | 470E (ER32) | 258.70 | 320 | |
| | medium length | BT-FC 50 | 1 - 10 | 100 | 28 | 56 | 426E (ER16) | 258.70 | 310 ¹⁾ |

1) with 6 position lock nut



| Spare parts for collet | 62 950 ... | | 83 950 ... | | 62 950 ... | | 83 357 ... | |
|---------------------------|----------------|-------|------------|--------|------------|-------|------------|-----|
| | £ | | £ | | £ | | £ | |
| 426E (ER16) / BT30-BT50 | W7 | 044 | Y8 | 054 | W7/6B | 055 | Y8 | 125 |
| 430E (ER25) / BT30-BT50 | M22x1,5 - SW25 | 32.23 | M22x1,5 | 82.98 | M32x1,5 | 26.70 | 28.20 | 125 |
| 470E (ER32) / BT30-BT50 | | | M32x1,5 | 96.66 | M40x1,5 | 27.37 | 41.07 | 132 |
| | | | M40x1,5 | 103.38 | | | | |

Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts

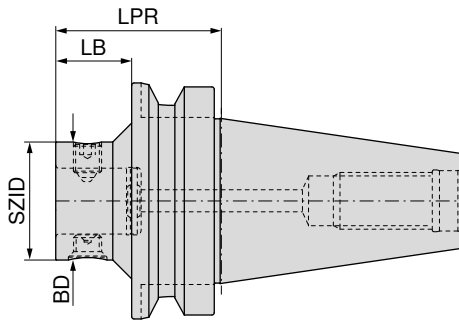
Accessories

| | | |
|--------------------|------------|--------|
| | | |
| ER collet | Pull studs | Others |
| → 262-270, 272-273 | → 108-109 | → 278 |

Adapter with ABS Connection – BT-FC

▲ with face contact

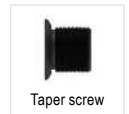
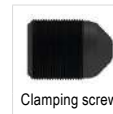
▲ also available with Balluff chip on request



AD

84 264 ...

| Adapter | SZID | BD | LPR | LB | | |
|----------|---------|-----|-----|----|--|-------------------|
| | | mm | mm | mm | | |
| BT-FC 40 | ABS 50 | 50 | 60 | 33 | | £ 1,154.29 05064 |
| BT-FC 40 | ABS 63 | 63 | 70 | | | Y8 1,187.67 06364 |
| BT-FC 50 | ABS 50 | 50 | 70 | 32 | | 1,571.33 05063 |
| BT-FC 50 | ABS 63 | 63 | 80 | 42 | | 1,613.47 06363 |
| BT-FC 50 | ABS 80 | 80 | 100 | 62 | | 1,638.08 08063 |
| BT-FC 50 | ABS 100 | 100 | 110 | | | 1,655.82 10063 |



84 950 ...

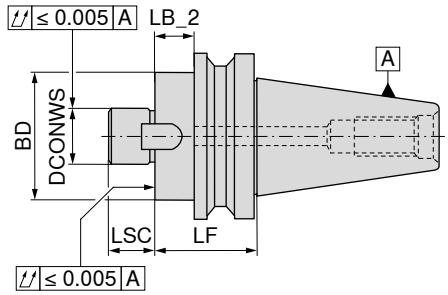
84 950 ...

Spare parts

| SZID | £ | | £ | |
|---------|-------|-------|-------|-------|
| | XX | | XX | |
| ABS 50 | 10.95 | 20300 | 13.91 | 20400 |
| ABS 63 | 10.42 | 25500 | 13.22 | 27300 |
| ABS 80 | 12.82 | 25600 | 15.60 | 25100 |
| ABS 100 | 15.79 | 25700 | 17.32 | 25200 |

Shell mill adapter – BT-FC

- ▲ with face contact
- ▲ with fixed drive dogs and enlarged contact face for milling cutters with transverse slot
- ▲ also available with Balluff chip **on request**



AD
G 6,3 n_{max} 15000

84 562 ...

| | Adapter | DCONWS mm | LB_2 mm | LF mm | BD mm | LSC mm | 84 562 ... | |
|-------|----------|--------------|------------|----------|----------|-----------|------------|-----|
| | | | | | | | £ | |
| short | BT-FC 30 | 16 | 18 | 39.0 | 40 | 17 | 147.06 | 016 |
| | BT-FC 30 | 22 | 18 | 39.0 | 50 | 19 | 147.06 | 022 |
| | BT-FC 30 | 27 | 18 | 39.0 | 60 | 21 | 147.06 | 027 |
| | BT-FC 30 | 32 | 28 | 49.0 | 80 | 24 | 147.06 | 032 |
| | BT-FC 40 | 16 | 8 | 34.0 | 40 | 17 | 176.84 | 116 |
| | BT-FC 40 | 22 | 8 | 34.0 | 50 | 19 | 176.84 | 122 |
| | BT-FC 40 | 27 | 8 | 34.0 | 60 | 21 | 176.84 | 127 |
| | BT-FC 40 | 32 | 23 | 49.0 | 80 | 24 | 176.84 | 132 |
| | BT-FC 40 | 40 | 23 | 49.0 | 89 | 27 | 176.84 | 140 |
| | BT-FC 50 | 22 | 12 | 48.5 | 50 | 19 | 204.72 | 322 |
| | BT-FC 50 | 27 | 12 | 48.5 | 60 | 21 | 204.72 | 327 |
| | BT-FC 50 | 32 | 12 | 48.5 | 80 | 24 | 217.78 | 332 |
| | BT-FC 50 | 40 | 17 | 53.5 | 89 | 27 | 217.78 | 340 |



Screw for drivers



Driver



clamping screw

Spare parts

| DCONWS | | 84 950 ... | | 84 950 ... | | 83 950 ... | |
|--------|-------|------------|-----|------------|-----|------------|-----|
| | | £ | | £ | | £ | |
| 16 | M3x12 | 9.91 | 162 | 25.20 | 157 | 7.18 | 113 |
| 22 | M4x10 | 9.91 | 163 | 29.67 | 158 | 8.10 | 124 |
| 27 | M4x16 | 9.91 | 164 | 32.14 | 159 | 8.95 | 125 |
| 32 | M5x16 | 9.91 | 165 | 36.52 | 160 | 10.90 | 126 |
| 40 | M5x16 | 9.91 | 166 | 40.65 | 161 | 12.02 | 112 |

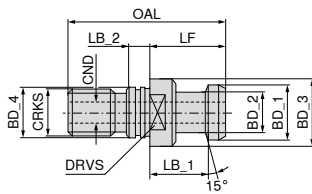
Accessories

| | |
|-----------|-------|
| | |
| → 108-109 | → 278 |

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 15° Form A

Scope of supply:
including O-Ring



83 532 ...

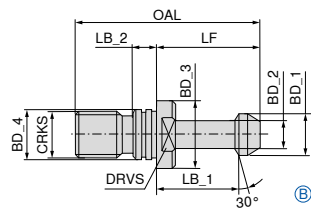
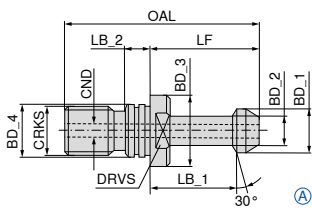
| Adapter | BD_1 | BD_2 | BD_3 | BD_4 | CRKS | OAL | LF | LB_1 | LB_2 | CND | DRVS | TQX |
|---------|------|------|------|------|------|-----|----|------|------|-----|------|-----|
| | mm | mm | mm | mm | | mm | mm | mm | mm | mm | mm | Nm |
| BT 40 | 19 | 14 | 23 | 17 | M16 | 54 | 29 | 23 | 5 | 5 | 19 | 90 |

£
Y8
22.15 040

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:
including O-Ring



82 533 ...

82 531 ...

| Adapter | BD_1 | BD_2 | BD_3 | BD_4 | CRKS | OAL | LF | LB_1 | LB_2 | CND | DRVS | TQX | form |
|---------|------|------|------|------|------|-----|----|------|------|-----|------|-----|------|
| | mm | mm | mm | mm | | mm | mm | mm | mm | mm | mm | Nm | |
| BT 30 | 11 | 7 | 16.5 | 12.5 | M12 | 43 | 23 | 18 | 4.0 | 2.2 | 13 | 60 | A |
| BT 40 | 15 | 10 | 23.0 | 17.0 | M16 | 60 | 35 | 28 | 5.5 | 4.0 | 19 | 90 | A |
| BT 50 | 23 | 17 | 38.0 | 25.0 | M24 | 85 | 45 | 35 | 8.0 | 6.0 | 30 | 145 | A |
| BT 30 | 11 | 7 | 16.5 | 12.5 | M12 | 43 | 23 | 18 | 4.0 | | 13 | 60 | B |
| BT 40 | 15 | 10 | 23.0 | 17.0 | M16 | 60 | 35 | 28 | 5.5 | | 19 | 90 | B |
| BT 50 | 23 | 17 | 38.0 | 25.0 | M24 | 85 | 45 | 35 | 8.0 | | 30 | 145 | B |

£
Y8

£
Y8

21.99 030
21.99 040
28.28 050

21.99 030
18.83 040
26.71 050



83 476 ...

Spare parts

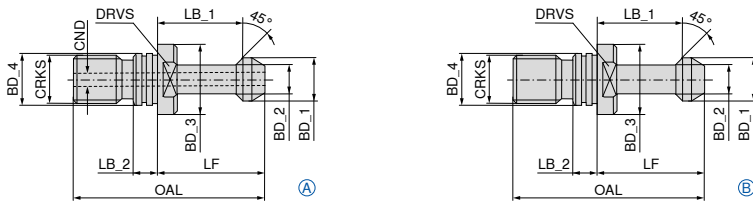
BD_4

| | | | |
|----|------------|-----------------|-----|
| 17 | BT / SK 40 | £ Y8 3.01 | 040 |
| 25 | BT / SK 50 | 3.01 | 050 |

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:
including O-Ring

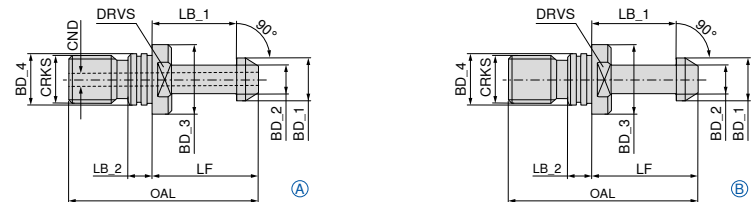


| Adapter | BD_1 mm | BD_2 mm | BD_3 mm | BD_4 mm | CRKS | OAL mm | LF mm | LB_1 mm | LB_2 mm | CND | DRVS mm | TQX Nm | form | 82 530 ... | | 82 534 ... | |
|---------|------------|------------|------------|------------|------|-----------|----------|------------|------------|-----|------------|-----------|------|------------|-----|------------|-----|
| | | | | | | | | | | | | | | £ | | £ | |
| BT 40 | 15 | 10 | 23.0 | 17.0 | M16 | 60 | 35 | 28 | 5.5 | 4.0 | 19 | 90 | A | Y8 | | 21.99 | 040 |
| BT 30 | 11 | 7 | 16.5 | 12.5 | M12 | 43 | 23 | 18 | 4.0 | 2.2 | 13 | 60 | A | | | 21.99 | 030 |
| BT 50 | 23 | 17 | 38.0 | 25.0 | M24 | 85 | 45 | 35 | 8.0 | 6.0 | 30 | 145 | A | | | 28.28 | 050 |
| BT 30 | 11 | 7 | 16.5 | 12.5 | M12 | 43 | 23 | 18 | 4.0 | | 13 | 60 | B | 21.99 | 030 | | |
| BT 40 | 15 | 10 | 23.0 | 17.0 | M16 | 60 | 35 | 28 | 5.5 | | 19 | 90 | B | 18.83 | 040 | | |
| BT 50 | 23 | 17 | 38.0 | 25.0 | M24 | 85 | 45 | 35 | 8.0 | | 30 | 145 | B | 26.71 | 050 | | |

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:
including O-Ring



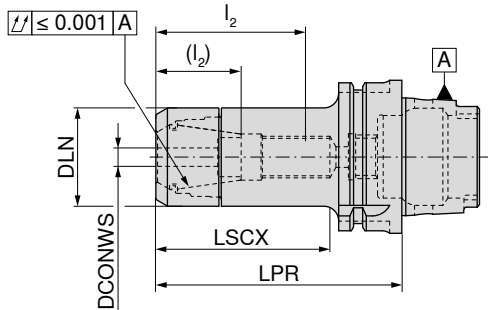
| Adapter | BD_1 mm | BD_2 mm | BD_3 mm | BD_4 mm | CRKS | OAL mm | LF mm | LB_1 mm | LB_2 mm | CND | DRVS mm | TQX Nm | form | 82 536 ... | | 82 537 ... | |
|---------|------------|------------|------------|------------|------|-----------|----------|------------|------------|-----|------------|-----------|------|------------|-----|------------|-----|
| | | | | | | | | | | | | | | £ | | £ | |
| BT 50 | 23 | 17 | 38 | 25 | M24 | 85 | 45 | 35 | 8.0 | 6 | 30 | 145 | A | Y8 | | 28.28 | 050 |
| BT 40 | 15 | 10 | 23 | 17 | M16 | 60 | 35 | 28 | 5.5 | 4 | 19 | 90 | A | | | 21.99 | 040 |
| BT 40 | 15 | 10 | 23 | 17 | M16 | 60 | 35 | 28 | 5.5 | | 19 | 90 | B | 18.83 | 040 | | |
| BT 50 | 23 | 17 | 38 | 25 | M24 | 85 | 45 | 35 | 8.0 | | 30 | 145 | B | 26.71 | 050 | | |

ER precision collet chuck – Centro-P

- ▲ for standard or sealed nuts
- ▲ maximum size collet to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without nut, without backstop**



G 2.5 n_{max} 25000

84 722 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | for collet | £ Y8 | |
|-----------|--------------|-----------|-----------|------------|-----------------------|-------------|----------|-------------------|
| HSK-A 40 | 1 - 10 | 60 | 30 | 40 | 32 - 54 | 426E (ER16) | 308.21 | 401 |
| HSK-A 40 | 2 - 16 | 60 | 40 | 40 | | 430E (ER25) | 356.83 | 404 ¹⁾ |
| HSK-A 40 | 2 - 20 | 61 | 50 | 45 | | 470E (ER32) | 386.50 | 407 ¹⁾ |
| HSK-A 50 | 2 - 16 | 70 | 40 | 49 | 34 - 35 | 430E (ER25) | 356.83 | 505 |
| HSK-A 50 | 2 - 16 | 60 | 40 | 37 | | 430E (ER25) | 356.83 | 504 ¹⁾ |
| HSK-A 63 | 1 - 10 | 55 | 30 | 32 | | 426E (ER16) | 344.77 | 609 ¹⁾ |
| HSK-A 63 | 1 - 10 | 100 | 30 | 71 | 28 - 45 (16 - 31) | 426E (ER16) | 335.44 | 610 |
| HSK-A 63 | 1 - 10 | 160 | 30 | 106 | 28 - 45 (16 - 31) | 426E (ER16) | 407.82 | 611 |
| HSK-A 63 | 1 - 10 | 200 | 30 | 136 | 28 - 45 (16 - 31) | 426E (ER16) | 689.37 | 612 |
| HSK-A 63 | 1 - 10 | 130 | 30 | 87 | 26 - 50 (17 - 38) | 426E (ER16) | 386.50 | 613 |
| HSK-A 63 | 2 - 16 | 60 | 40 | 37 | | 430E (ER25) | 344.77 | 615 |
| HSK-A 63 | 2 - 16 | 100 | 40 | 70 | 35 - 55 (24 - 37) | 430E (ER25) | 335.44 | 616 |
| HSK-A 63 | 2 - 16 | 160 | 40 | 128 | 35 - 60 (24 - 42) | 430E (ER25) | 428.52 | 617 |
| HSK-A 63 | 2 - 16 | 130 | 40 | 89 | 37 - 60 (12 - 42) | 430E (ER25) | 416.21 | 619 |
| HSK-A 63 | 2 - 20 | 70 | 50 | 46 | | 470E (ER32) | 335.44 | 620 |
| HSK-A 63 | 2 - 20 | 100 | 50 | 71 | 41 - 57 (26 - 39) | 470E (ER32) | 335.44 | 621 |
| HSK-A 63 | 2 - 20 | 160 | 50 | 129 | 52 - 70 (26 - 60) | 470E (ER32) | 428.52 | 622 |
| HSK-A 63 | 2 - 20 | 130 | 50 | 101 | 42 - 69 (18 - 41) | 470E (ER32) | 416.21 | 625 |
| HSK-A 63 | 3 - 26 | 120 | 63 | 91 | | 472E (ER40) | 355.74 | 62700 |
| HSK-A 63 | 3 - 26 | 80 | 63 | 56 | | 472E (ER40) | 430.92 | 626 ²⁾ |
| HSK-A 100 | 1 - 10 | 130 | 30 | 101 | 28 - 48 (16 - 35) | 426E (ER16) | 513.41 | 11200 |
| HSK-A 100 | 1 - 10 | 100 | 30 | 70 | 28 - 48 (16 - 35) | 426E (ER16) | 664.27 | 110 |
| HSK-A 100 | 1 - 10 | 160 | 30 | 130 | 28 - 48 (16 - 35) | 426E (ER16) | 951.30 | 111 |
| HSK-A 100 | 1 - 16 | 100 | 40 | 98 | 40 - 60 (22 - 42) | 430E (ER25) | 513.41 | 11800 |
| HSK-A 100 | 2 - 16 | 160 | 40 | 105 | 38 - 68 (20 - 50) | 430E (ER25) | 951.30 | 117 |
| HSK-A 100 | 2 - 16 | 100 | 40 | 71 | 38 - 56 (20 - 40) | 430E (ER25) | 664.27 | 116 |
| HSK-A 100 | 2 - 20 | 160 | 50 | 99 | 42 - 70 (24 - 52) | 470E (ER32) | 1,356.96 | 122 |
| HSK-A 100 | 2 - 20 | 100 | 50 | 70 | 42 - 59 (24 - 40) | 470E (ER32) | 975.40 | 121 |
| HSK-A 100 | 2 - 20 | 130 | 50 | 97 | 44 - 69 (41 - 51) | 470E (ER32) | 513.41 | 12400 |

1) Item cannot be combined with backstop screw

2) Non standard groove before tool change collar not according to DIN, not suitable for automatic tool change

→ Transmittable torque moments, Page 306

LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer

Spare parts ER precision collet chuck – Centro-P

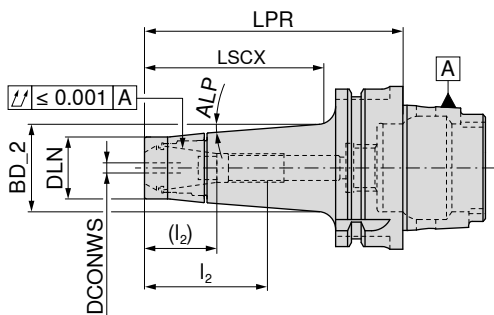
| Spare parts for collet | 84 950 ... | | 84 950 ... | | 83 950 ... | | 83 950 ... | | | |
|------------------------|------------|-----|------------|-----|---------------|-------|------------|---------------|-------|-----|
| | £ | | £ | | £ | | £ | | | |
| 426E (ER16) | 92.42 | 011 | 68.64 | 001 | | | | | | |
| 426E (ER16) | 92.42 | 011 | 68.64 | 001 | M11x1 - SW6 | 57.33 | 341 | M11x1 - SW6 | 38.40 | 337 |
| 430E (ER25) | 103.01 | 013 | 76.26 | 003 | M18x1,5 - SW6 | 40.33 | 432 | M18x1,5 - SW6 | 28.76 | 431 |
| 470E (ER32) | 110.15 | 015 | 83.89 | 005 | M22x1,5 - SW6 | 34.06 | 402 | M22x1,5 - SW6 | 24.81 | 401 |
| 472E (ER40) | 150.65 | 017 | 122.04 | 007 | | | | M28x1,5 - SW6 | 34.77 | 400 |

ER precision collet chuck, tapered – Centro-P

- ▲ for special tapered nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip on request

Scope of supply:

Holder **without** nut, **without** backstop



G 2,5 n_{max} 25000

| Adapter | DCONWS | LPR | DLN | BD_2 | LSCX | l_2 (l_2) | ALP | for collet | £ | |
|----------|--------|-----|-----|------|------|-------------------|------|-------------|--------|-------|
| HSK-A 40 | 1 - 10 | 100 | 24 | 30.8 | 67 | 26 - 47 (12 - 32) | 2.0° | 426E (ER16) | 356.83 | 310 |
| HSK-A 50 | 1 - 10 | 65 | 24 | 28.9 | 44 | 26 - 32 | 4.5° | 426E (ER16) | 356.83 | 710 |
| HSK-A 50 | 1 - 10 | 100 | 24 | 34.4 | 77 | 26 - 47 (12 - 32) | 4.5° | 426E (ER16) | 356.83 | 810 |
| HSK-A 63 | 1 - 10 | 130 | 24 | 36.0 | 77 | 28 - 48 (20 - 35) | 3.5° | 426E (ER16) | 313.42 | 61200 |
| HSK-A 63 | 1 - 10 | 100 | 24 | 33.8 | 74 | 28 - 48 (20 - 35) | 4.5° | 426E (ER16) | 335.44 | 610 |
| HSK-A 63 | 1 - 10 | 160 | 24 | 36.0 | 106 | 28 - 48 (20 - 35) | 2.5° | 426E (ER16) | 391.46 | 611 |

→ Transmittable torque moments, Page 306



LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer

Spare parts for collet

426E (ER16)

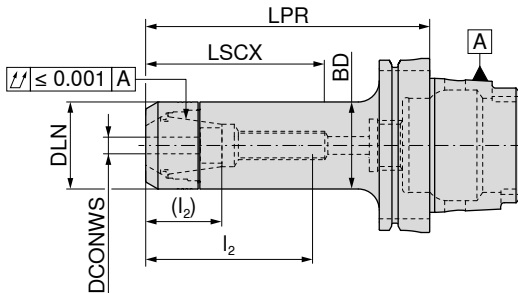
| Tapered lock nut IK | Tapered lock nut | Stop screw 2 | Stop screw 1 |
|---------------------|------------------|--------------|--------------|
| 84 950 ... | 84 950 ... | 83 950 ... | 83 950 ... |
| £ | £ | £ | £ |
| Y8 | Y8 | Y8 | Y8 |
| 113.47 | 95.86 | 57.33 | 38.40 |
| 033 | 031 | 341 | 337 |

ER precision collet chuck, slim – Centro-P

- ▲ for Mini Clamping Nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ p_{max} 80 bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop



G 2,5 n_{max} 25000

84 719 ...

| Adapter | DCONWS mm | LPR mm | BD mm | DLN mm | LSCX mm | l_2 (l_2) mm | for collet | £ | |
|----------|--------------|-----------|----------|-----------|------------|-----------------------|--------------|--------|-----|
| HSK-A 50 | 1 - 7 | 130 | 16 | 16 | 60 | 15 - 32 (7 - 22) | 4008E (ER11) | 446.06 | 407 |
| HSK-A 63 | 1 - 7 | 70 | 16 | 16 | 48 | 15 - 32 (7 - 22) | 4008E (ER11) | 341.87 | 507 |
| HSK-A 63 | 1 - 7 | 100 | 16 | 16 | 68 | 18 - 36 (12 - 26) | 4008E (ER11) | 357.42 | 607 |
| HSK-A 63 | 1 - 7 | 130 | 16 | 16 | 108 | 15 - 32 (7 - 22) | 4008E (ER11) | 440.10 | 707 |
| HSK-A 63 | 1 - 7 | 160 | 16 | 16 | 68 | 18 - 36 (12 - 26) | 4008E (ER11) | 465.88 | 608 |
| HSK-A 63 | 1 - 10 | 70 | 22 | 22 | 46 | 27 - 34 (14 - 20) | 426E (ER16) | 341.87 | 610 |
| HSK-A 63 | 1 - 10 | 100 | 22 | 22 | 62 | 27 - 44 (14 - 30) | 426E (ER16) | 341.87 | 710 |
| HSK-A 63 | 1 - 10 | 130 | 22 | 22 | 87 | 27 - 52 (14 - 38) | 426E (ER16) | 440.10 | 810 |
| HSK-A 63 | 1 - 10 | 160 | 22 | 22 | 97 | 27 - 52 (14 - 38) | 426E (ER16) | 440.10 | 910 |

→ Transmittable torque moments, Page 306

LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer

| Spare parts for collet | Mini lock nut IK | | Mini lock nut | | Stop screw 2 | | Stop screw 1 | | | |
|---------------------------|------------------|-----|---------------|-----|--------------|-------|--------------|-------------|-------|-----|
| | £ | | £ | | £ | | £ | | | |
| 4008E (ER11) | Y8 | | Y8 | 041 | M8x1 - SW4 | 54.64 | 340 | M8x1 - SW4 | 36.39 | 336 |
| 426E (ER16) | 93.35 | 035 | 76.59 | 034 | M11x1 - SW6 | 57.33 | 341 | M11x1 - SW6 | 38.40 | 337 |

Accessories

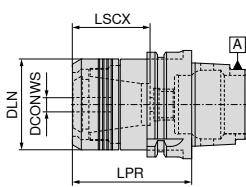
| | | | | | | |
|----------------|--------------|--------|----------|-----------------|-----------------------|--------|
| | | | | | | |
| ER collet | Sealing ring | Device | Roll key | Roll key device | Coolant transfer pipe | Others |
| → 262-269, 273 | → 274 | → 279 | → 280 | → 280 | → 152 | → 278 |

ER precision collet chuck – HDC

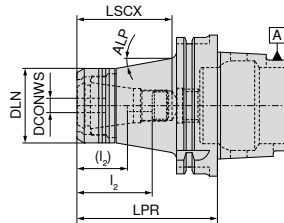
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip on request

Scope of supply:

Base body including lock nut, without backstop screw



cylindrical



Conical



G 6,3 n_{max} 18000

G 6,3 n_{max} 18000

cylindrical

conical

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | ALP ° | for collet | 84 400 ... £ Y8 | 84 400 ... £ Y8 |
|-----------|--------------|-----------|-----------|------------|-----------------------|----------|-------------|-----------------------|-----------------------|
| HSK-A 63 | 2 - 20 | 70 | 53 | 45 | 41 - 57 (27 - 39) | | 470E (ER32) | 482.55 | 12057 |
| HSK-A 63 | 2 - 20 | 100 | 53 | 72 | 41 - 57 (27 - 39) | | 470E (ER32) | 482.55 | 22057 |
| HSK-A 100 | 2 - 20 | 100 | 53 | 68 | 41 - 54 (27 - 36) | 10 | 470E (ER32) | | 801.03 22055 |



LSCX = Clamping depth without backstop screw

l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2

Spare parts

DCONWS

2 - 20

| Part | Price | Quantity | Part | Price | Quantity | Part | Price | Quantity |
|----------|----------|----------|--------------|---------|----------|--------------|---------|----------|
| Lock nut | £ 127.88 | 30100 | Stop screw 2 | £ 34.06 | 402 | Stop screw 1 | £ 24.81 | 401 |

Accessories

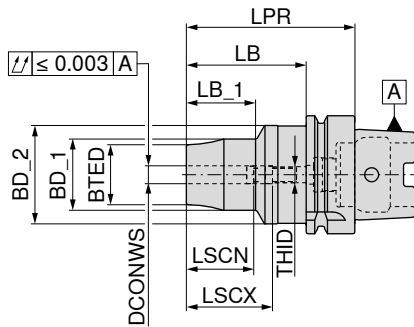
| Item | Price |
|-----------------|--------------------|
| ER collet | → 262-270, 272-273 |
| Roll key | → 280 |
| Roll key device | → 280 |
| Others | → 278 |

High pressure chuck, short version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 706 ...

| £ | |
|----------|-----|
| Y8 | |
| 1,231.34 | 616 |
| 1,141.41 | 620 |
| 1,231.34 | 625 |
| 1,231.34 | 632 |

| short | Adapter | DCONWS | LPR | BTED | BD_1 | BD_2 | LB_1 | LSCX | LSCN | LB | THID |
|-------|----------|--------|-----|------|------|------|------|------|------|----|-------|
| | | mm | mm | mm | mm | mm | mm | mm | mm | mm | |
| | HSK-A 63 | 16 | 95 | 36 | 42 | 52.5 | 42 | 49 | 39 | 69 | M12x1 |
| | HSK-A 63 | 20 | 100 | 42 | 48 | 52.5 | 45 | 51 | 41 | 74 | M16x1 |
| | HSK-A 63 | 25 | 120 | 51 | 57 | 53.0 | 62 | 57 | 47 | 94 | M16x1 |
| | HSK-A 63 | 32 | 125 | 57 | 63 | 53.0 | 62 | 61 | 51 | 99 | M16x1 |

→ Min. clamping depth, Page 306



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

| Article no. | SW5 | £ | | TR10x1,5x14 | £ | | M12x1x18 | £ | |
|-------------|-----|------|-----|-------------|-------|-----|------------|-------|-----|
| 83 706 616 | SW5 | 7.73 | 050 | TR10x1,5x14 | 40.85 | 430 | M12x1x18 | 21.22 | 446 |
| 83 706 620 | SW5 | 7.73 | 050 | TR10x1,5x14 | 40.85 | 430 | M16x1x18,5 | 23.26 | 448 |
| 83 706 625 | SW5 | 7.73 | 050 | TR10x1,5x14 | 40.85 | 430 | M16x1x22 | 36.76 | 449 |
| 83 706 632 | SW5 | 7.73 | 050 | TR10x1,5x14 | 40.85 | 430 | M16x1x25 | 45.75 | 450 |

Accessories

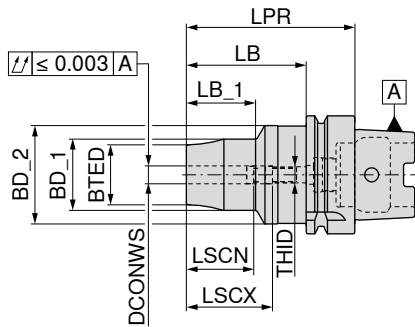
| | | |
|------------------|-----------------------|--------|
| | | |
| Reduction sleeve | Coolant transfer pipe | Others |
| → 276 | → 152 | → 278 |

High pressure chuck, short and stable version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 722 ...

£
Y8

467.28 120

| Adapter | DCONWS | LPR | BTED | BD_1 | BD_2 | LB_1 | LSCX | LSCN | LB | THID |
|----------|--------|-----|------|------|------|------|------|------|----|------|
| HSK-A 63 | 20 | 80 | 36 | 49 | 52.5 | 36 | 51 | 40 | 54 | M8x1 |

→ Min. clamping depth, Page 306



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

£
Y7

7.73 050

83 950 ...

£
Y7

21.84 158

83 950 ...

£
Y7

23.98 420

Spare parts for Article no.

83 722 120

SW5

M10x1x10

M8x1x13,5 - SW3

Accessories



Reduction sleeve

→ 276



Coolant transfer pipe

→ 152



Others

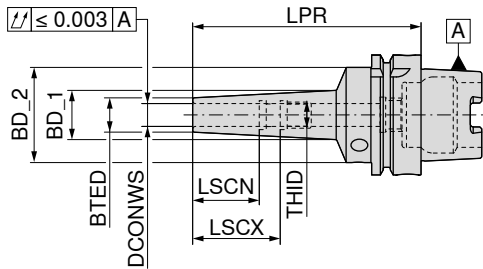
→ 278

High pressure chuck, slim 3°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 727 ...

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD_1 mm | BD_2 mm | LSCX mm | LSCN mm | THID | £ | |
|---------------|----------|--------------|-----------|------------|------------|------------|------------|------------|-------|----------|-----|
| | | | | | | | | | | Y8 | |
| medium length | HSK-A 63 | 3 | 120 | 9 | 16.65 | 50 | 28 | 12 | M3 | 893.32 | 603 |
| | HSK-A 63 | 4 | 120 | 10 | 17.65 | 50 | 28 | 16 | M3 | 893.32 | 604 |
| | HSK-A 63 | 5 | 120 | 11 | 18.65 | 50 | 28 | 20 | M3 | 893.32 | 605 |
| | HSK-A 63 | 6 | 120 | 12 | 19.75 | 50 | 37 | 27 | M5 | 769.58 | 606 |
| | HSK-A 63 | 8 | 120 | 14 | 21.75 | 50 | 37 | 27 | M6 | 769.58 | 608 |
| | HSK-A 63 | 10 | 120 | 16 | 23.75 | 50 | 41 | 31 | M8x1 | 769.58 | 610 |
| | HSK-A 63 | 12 | 120 | 18 | 25.86 | 50 | 46 | 36 | M10x1 | 769.58 | 612 |
| | HSK-A 63 | 16 | 120 | 24 | 31.50 | 50 | 49 | 39 | M12x1 | 1,196.91 | 616 |
| | HSK-A 63 | 20 | 120 | 28 | 35.55 | 50 | 51 | 41 | M16x1 | 1,196.91 | 620 |
| extra-long | HSK-A 63 | 6 | 160 | 16 | 33.53 | 50 | 37 | 27 | M5 | 1,264.40 | 706 |
| | HSK-A 63 | 8 | 160 | 18 | 34.55 | 50 | 37 | 27 | M6 | 1,264.40 | 708 |
| | HSK-A 63 | 10 | 160 | 20 | 36.27 | 50 | 41 | 31 | M8x1 | 1,264.40 | 710 |
| | HSK-A 63 | 12 | 160 | 22 | 37.78 | 50 | 46 | 36 | M10x1 | 1,264.40 | 712 |
| extra long | HSK-A 63 | 6 | 200 | 16 | 37.83 | 50 | 37 | 27 | M5 | 1,398.06 | 806 |
| | HSK-A 63 | 8 | 200 | 18 | 38.85 | 50 | 37 | 27 | M6 | 1,398.06 | 808 |
| | HSK-A 63 | 10 | 200 | 20 | 40.57 | 50 | 41 | 31 | M8x1 | 1,398.06 | 810 |
| | HSK-A 63 | 12 | 200 | 22 | 42.07 | 50 | 46 | 36 | M10x1 | 1,398.06 | 812 |

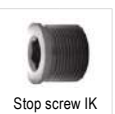
→ Min. clamping depth, Page 306



Clamping key – T



Pressure screw



Stop screw IK

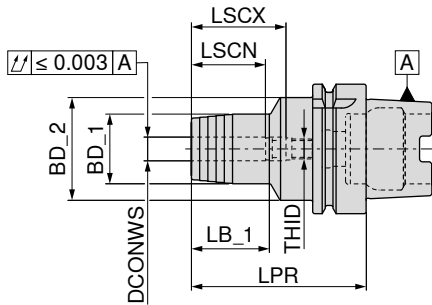
| Spare parts DCONWS | 80 397 ... | | 83 950 ... | | 83 950 ... | |
|-----------------------|------------|-----|------------|-----|------------|-----|
| | £ | | £ | | £ | |
| 3 | 7.73 | 050 | 21.84 | 158 | 16.65 | 172 |
| 4 | 7.73 | 050 | 21.84 | 158 | 16.65 | 172 |
| 5 | 7.73 | 050 | 21.84 | 158 | 16.65 | 172 |
| 6 | 7.73 | 050 | 21.84 | 158 | 23.98 | 418 |
| 6 | 7.73 | 050 | 21.84 | 158 | 23.98 | 419 |
| 8 | 7.73 | 050 | 21.84 | 158 | 23.98 | 419 |
| 10 | 7.73 | 050 | 21.84 | 159 | 23.98 | 420 |
| 12 | 7.73 | 050 | 21.84 | 159 | 23.98 | 421 |
| 16 | 7.73 | 050 | 21.84 | 159 | 23.98 | 422 |
| 20 | 7.73 | 050 | 21.84 | 159 | 27.66 | 424 |

Hydraulic chuck, short and slim version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 726 ...

| | Adapter | DCONWS mm | LPR mm | BD_1 mm | BD_2 mm | LSCX mm | LSCN mm | LB_1 mm | THID | £ | |
|-------|----------|--------------|-----------|------------|------------|------------|------------|------------|-------|--------|-----|
| | | | | | | | | | | Y8 | |
| short | HSK-A 63 | 6 | 70 | 26 | 49.5 | 37 | 27 | 24 | M5 | 911.26 | 606 |
| | HSK-A 63 | 8 | 70 | 28 | 49.5 | 37 | 27 | 24 | M6 | 911.26 | 608 |
| | HSK-A 63 | 10 | 80 | 30 | 49.5 | 41 | 31 | 32 | M8x1 | 911.26 | 610 |
| | HSK-A 63 | 12 | 85 | 32 | 49.5 | 46 | 36 | 40 | M10x1 | 835.64 | 612 |
| | HSK-A 63 | 16 | 90 | 38 | 49.5 | 49 | 39 | 46 | M12x1 | 911.26 | 616 |
| | HSK-A 63 | 20 | 90 | 42 | 49.5 | 51 | 41 | 48 | M16x1 | 835.64 | 620 |
| | HSK-A 63 | 25 | 120 | 57 | 52.0 | 57 | 47 | 63 | M16x1 | 911.26 | 625 |
| | HSK-A 63 | 32 | 125 | 63 | 53.0 | 61 | 51 | 61 | M16x1 | 911.26 | 632 |

→ Min. clamping depth, Page 306

Version for MMS hydraulic chuck – 1 and 2-channel



83 432 HSK-63 1-channel

83 432 HSK-100 1-channel



This article can be found in our online shop at cuttingtools.ceratzit.com



83 433 HSK-63 2-channel

83 433 HSK-100 2-channel



This article can be found in our online shop at cuttingtools.ceratzit.com



Pressure screw



Stop screw IK

Spare parts

| DCONWS | 83 950 ... | | 83 950 ... | |
|---------|------------|-----|------------|-----|
| | £ | | £ | |
| 6 | 16.61 | 439 | 23.98 | 418 |
| 8 | 16.61 | 440 | 23.98 | 419 |
| 10 | 16.61 | 440 | 23.98 | 420 |
| 12 | 16.61 | 440 | 23.98 | 421 |
| 16 | 16.61 | 440 | 23.98 | 422 |
| 20 - 32 | 16.61 | 440 | 27.66 | 423 |

Accessories

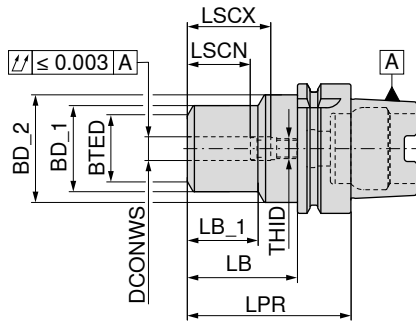
| | | |
|------------------|-----------------------|--------|
| | | |
| Reduction sleeve | Coolant transfer pipe | Others |
| → 276 | → 152 | → 278 |

Hydraulic chuck, short and stable version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 430 ...

| Adapter | DCONWS | LPR | BD_1 | BD_2 | BTED | LB | LB_1 | LSCN | LSCX | THID | | |
|-----------|--------|-----|------|------|------|----|------|------|------|------|--|--|
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | | | |
| HSK-A 63 | 12 | 80 | 42 | 52.5 | 32 | 54 | 34 | 36 | 46 | M8x1 | | |
| HSK-A 63 | 20 | 80 | 49 | 52.5 | 38 | 54 | 36 | 41 | 51 | M8x1 | | |
| HSK-A 100 | 12 | 85 | 42 | 52.5 | 32 | 51 | 34 | 36 | 46 | M8x1 | | |
| HSK-A 100 | 20 | 85 | 49 | 52.5 | 38 | 51 | 36 | 41 | 51 | M8x1 | | |

£
Y8
419.73 01257
419.73 02057
589.11 01255
589.11 02055

→ Min. clamping depth, Page 306



80 397 ...

83 950 ...

83 950 ...

| Spare parts | | | | | | | |
|-------------|-----------------|----|-------|-----|----------|----|-------|
| DCONWS | | £ | | £ | | £ | |
| 12 - 20 | SW5 | Y7 | 7.73 | 050 | M10x1x12 | Y7 | 16.61 |
| | | | | | | | 440 |
| | M8x1x13,5 - SW3 | | 23.98 | | | | 420 |

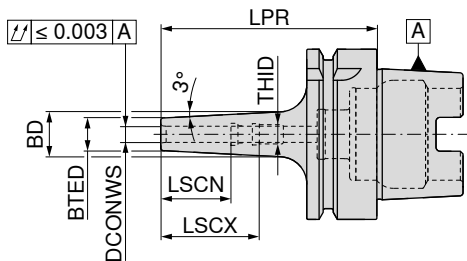
Accessories

| | | |
|------------------|-----------------------|--------|
| | | |
| Reduction sleeve | Coolant transfer pipe | Others |
| → 276 | → 152 | → 278 |

Shrink adapter, slim 3°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG



G 2,5 n_{max} 25000

84 324 ...

| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | £ | |
|---------------|----------|--------|-----|------|----|------|-------|--------|--------|-----|
| | | | | | | | | | Y8 | |
| short | HSK-A 63 | 3 | 80 | 9 | 14 | 28 | 12 | M6 | 686.38 | 103 |
| | HSK-A 63 | 4 | 80 | 10 | 15 | 28 | 16 | M6 | 668.08 | 104 |
| | HSK-A 63 | 5 | 80 | 11 | 16 | 30 | 20 | M6 | 668.08 | 105 |
| | HSK-A 63 | 6 | 80 | 12 | 17 | 36 | 26 | M5 | 604.01 | 106 |
| | HSK-A 63 | 8 | 80 | 14 | 19 | 36 | 26 | M6 | 604.01 | 108 |
| | HSK-A 63 | 10 | 85 | 16 | 21 | 41 | 31 | M8x1 | 604.01 | 110 |
| | HSK-A 63 | 12 | 90 | 18 | 24 | 47 | 37 | M10x1 | 604.01 | 112 |
| | HSK-A 63 | 14 | 90 | 20 | 26 | 47 | 37 | M10x1 | 604.01 | 114 |
| | HSK-A 63 | 16 | 95 | 22 | 28 | 50 | 40 | M12x1 | 604.01 | 116 |
| | HSK-A 63 | 18 | 95 | 24 | 30 | 50 | 40 | M12x1 | 604.01 | 118 |
| HSK-A 63 | 20 | 100 | 26 | 33 | 52 | 42 | M16x1 | 604.01 | 120 | |
| medium length | HSK-A 63 | 3 | 120 | 9 | 16 | 12 | 12 | | 732.14 | 203 |
| | HSK-A 63 | 4 | 120 | 10 | 17 | 16 | 16 | | 723.00 | 204 |
| | HSK-A 63 | 5 | 120 | 11 | 18 | 20 | 20 | | 723.00 | 205 |
| | HSK-A 63 | 6 | 120 | 12 | 21 | 36 | 26 | M5 | 649.75 | 206 |
| | HSK-A 63 | 8 | 120 | 14 | 23 | 36 | 26 | M6 | 649.75 | 208 |
| | HSK-A 63 | 10 | 120 | 16 | 25 | 41 | 31 | M8x1 | 649.75 | 210 |
| | HSK-A 63 | 12 | 120 | 18 | 27 | 47 | 37 | M10x1 | 649.75 | 212 |
| | HSK-A 63 | 14 | 120 | 20 | 29 | 47 | 37 | M10x1 | 649.75 | 214 |
| | HSK-A 63 | 16 | 120 | 22 | 31 | 50 | 40 | M12x1 | 649.75 | 216 |
| | HSK-A 63 | 18 | 120 | 24 | 33 | 50 | 40 | M12x1 | 649.75 | 218 |
| HSK-A 63 | 20 | 120 | 26 | 35 | 52 | 42 | M16x1 | 649.75 | 220 | |
| extra-long | HSK-A 63 | 3 | 160 | 9 | 19 | 12 | 12 | | 800.77 | 303 |
| | HSK-A 63 | 4 | 160 | 10 | 20 | 16 | 16 | | 782.47 | 304 |
| | HSK-A 63 | 5 | 160 | 11 | 21 | 20 | 20 | | 782.47 | 305 |
| | HSK-A 63 | 6 | 160 | 12 | 24 | 36 | 26 | M5 | 677.24 | 306 |
| | HSK-A 63 | 8 | 160 | 14 | 26 | 36 | 26 | M6 | 677.24 | 308 |
| | HSK-A 63 | 10 | 160 | 16 | 28 | 41 | 31 | M8x1 | 677.24 | 310 |
| | HSK-A 63 | 12 | 160 | 18 | 30 | 47 | 37 | M10x1 | 677.24 | 312 |
| | HSK-A 63 | 14 | 160 | 20 | 32 | 47 | 37 | M10x1 | 677.24 | 314 |
| | HSK-A 63 | 16 | 160 | 22 | 34 | 50 | 40 | M12x1 | 677.24 | 316 |
| | HSK-A 63 | 18 | 160 | 24 | 36 | 50 | 40 | M12x1 | 677.24 | 318 |
| HSK-A 63 | 20 | 160 | 26 | 38 | 52 | 42 | M16x1 | 677.24 | 320 | |

→ Min. clamping depth, Page 306



Stop screw IK



Stop screw IK

Spare parts

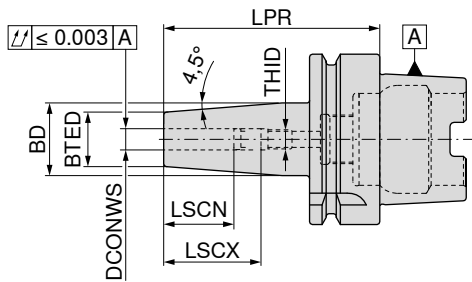
DCONWS

| | | £ | | £ | |
|---------|-------------|-------|-----|------------------|-----------|
| 3 - 5 | M6x14 - SW2 | 23.98 | 417 | M5x12,5 - SW2,5 | 23.98 418 |
| 6 | | | | M6x12,5 - SW3 | 23.98 419 |
| 8 | | | | M8x1x13,5 - SW3 | 23.98 420 |
| 10 | | | | M10x1x13,5 - SW5 | 23.98 421 |
| 12 - 14 | | | | M12x1x13,5 - SW5 | 23.98 422 |
| 16 - 18 | | | | M16x1x13,5 - SW8 | 27.66 424 |
| 20 | | | | | |

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip on request

TG



G 2,5 n_{max} 25000

84 304 ...

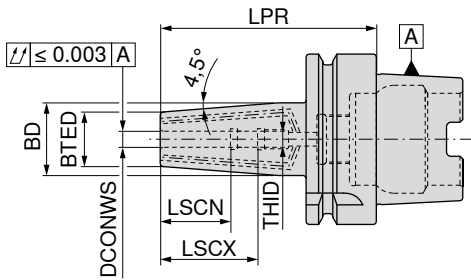
| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | £ | |
|---------------|----------|--------|-----|------|----|------|-------|--------|--------|-----|
| | | | | | | | | | Y8 | |
| short | HSK-A 63 | 3 | 80 | 10 | 15 | 22 | 12 | M6 | 245.40 | 103 |
| | HSK-A 63 | 4 | 80 | 15 | 22 | 26 | 16 | M6 | 245.40 | 104 |
| | HSK-A 63 | 5 | 80 | 15 | 22 | 30 | 20 | M6 | 245.40 | 105 |
| | HSK-A 63 | 6 | 80 | 21 | 27 | 36 | 26 | M5 | 245.40 | 106 |
| | HSK-A 63 | 8 | 80 | 21 | 27 | 36 | 26 | M6 | 245.40 | 108 |
| | HSK-A 63 | 10 | 85 | 24 | 32 | 41 | 31 | M8x1 | 245.40 | 110 |
| | HSK-A 63 | 12 | 90 | 24 | 32 | 47 | 37 | M10x1 | 245.40 | 112 |
| | HSK-A 63 | 14 | 90 | 27 | 34 | 47 | 37 | M10x1 | 245.40 | 114 |
| | HSK-A 63 | 16 | 95 | 27 | 34 | 50 | 40 | M12x1 | 245.40 | 116 |
| | HSK-A 63 | 18 | 95 | 33 | 42 | 50 | 40 | M12x1 | 245.40 | 118 |
| | HSK-A 63 | 20 | 100 | 33 | 42 | 52 | 42 | M16x1 | 245.40 | 120 |
| | HSK-A 63 | 25 | 115 | 44 | 53 | 58 | 48 | M16x1 | 245.40 | 125 |
| HSK-A 63 | 32 | 120 | 44 | 53 | 62 | 52 | M16x1 | 245.40 | 132 | |
| medium length | HSK-A 63 | 3 | 120 | 10 | 20 | 12 | 12 | | 416.16 | 203 |
| | HSK-A 63 | 4 | 120 | 15 | 22 | 16 | 16 | | 408.58 | 204 |
| | HSK-A 63 | 5 | 120 | 15 | 22 | 20 | 20 | | 408.58 | 205 |
| | HSK-A 63 | 6 | 120 | 21 | 27 | 36 | 26 | M5 | 370.82 | 206 |
| | HSK-A 63 | 8 | 120 | 21 | 27 | 36 | 26 | M6 | 370.82 | 208 |
| | HSK-A 63 | 10 | 120 | 24 | 32 | 41 | 31 | M8x1 | 370.82 | 210 |
| | HSK-A 63 | 12 | 120 | 24 | 32 | 47 | 37 | M10x1 | 370.82 | 212 |
| | HSK-A 63 | 14 | 120 | 27 | 34 | 47 | 37 | M10x1 | 695.54 | 214 |
| | HSK-A 63 | 16 | 120 | 27 | 34 | 50 | 40 | M12x1 | 695.54 | 216 |
| | HSK-A 63 | 18 | 120 | 33 | 42 | 50 | 40 | M12x1 | 695.54 | 218 |
| | HSK-A 63 | 20 | 120 | 33 | 42 | 52 | 42 | M16x1 | 695.54 | 220 |
| | HSK-A 63 | 25 | 120 | 44 | 53 | 58 | 48 | M16x1 | 695.54 | 225 |
| extra-long | HSK-A 63 | 3 | 160 | 10 | 20 | 12 | 12 | | 465.28 | 303 |
| | HSK-A 63 | 4 | 160 | 15 | 22 | 16 | 16 | | 455.78 | 304 |
| | HSK-A 63 | 5 | 160 | 15 | 22 | 20 | 20 | | 455.78 | 305 |
| | HSK-A 63 | 6 | 160 | 21 | 27 | 36 | 26 | M5 | 418.06 | 306 |
| | HSK-A 63 | 8 | 160 | 21 | 27 | 36 | 26 | M6 | 418.06 | 308 |
| | HSK-A 63 | 10 | 160 | 24 | 32 | 41 | 31 | M8x1 | 418.06 | 310 |
| | HSK-A 63 | 12 | 160 | 24 | 32 | 47 | 37 | M10x1 | 418.06 | 312 |
| | HSK-A 63 | 14 | 160 | 27 | 34 | 47 | 37 | M10x1 | 418.06 | 314 |
| | HSK-A 63 | 16 | 160 | 27 | 34 | 50 | 40 | M12x1 | 418.06 | 316 |
| | HSK-A 63 | 18 | 160 | 33 | 42 | 50 | 40 | M12x1 | 418.06 | 318 |
| | HSK-A 63 | 20 | 160 | 33 | 42 | 52 | 42 | M16x1 | 418.06 | 320 |
| | HSK-A 63 | 25 | 160 | 44 | 53 | 62 | 52 | M16x1 | 418.06 | 325 |
| extra long | HSK-A 63 | 6 | 200 | 21 | 27 | 36 | 26 | M5 | 933.45 | 406 |
| | HSK-A 63 | 8 | 200 | 21 | 27 | 36 | 26 | M6 | 933.45 | 408 |
| | HSK-A 63 | 10 | 200 | 24 | 32 | 41 | 31 | M8x1 | 933.45 | 410 |
| | HSK-A 63 | 12 | 200 | 24 | 32 | 47 | 37 | M10x1 | 933.45 | 412 |
| | HSK-A 63 | 14 | 200 | 27 | 34 | 47 | 37 | M10x1 | 933.45 | 414 |
| | HSK-A 63 | 16 | 200 | 27 | 34 | 50 | 40 | M12x1 | 933.45 | 416 |
| | HSK-A 63 | 18 | 200 | 33 | 42 | 50 | 40 | M12x1 | 933.45 | 418 |
| | HSK-A 63 | 20 | 200 | 33 | 42 | 52 | 42 | M16x1 | 933.45 | 420 |
| | HSK-A 63 | 25 | 200 | 44 | 53 | 62 | 52 | M16x1 | 933.45 | 425 |
| | HSK-A 63 | 32 | 200 | 44 | 53 | 62 | 52 | M16x1 | 933.45 | 432 |

→ Min. clamping depth, Page 306

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG



G 2,5 n_{max} 25000

84 316 ...

| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | £ | |
|-------|----------|--------|-----|------|----|------|------|-------|--------|-----|
| | | mm | mm | mm | mm | mm | mm | mm | | |
| short | HSK-A 63 | 3 | 80 | 10 | 15 | 28 | 12 | M6 | 751.35 | 103 |
| | HSK-A 63 | 4 | 80 | 15 | 22 | 28 | 16 | M6 | 730.36 | 104 |
| | HSK-A 63 | 5 | 80 | 15 | 22 | 30 | 20 | M6 | 730.36 | 105 |
| | HSK-A 63 | 6 | 80 | 21 | 27 | 36 | 26 | M5 | 663.20 | 106 |
| | HSK-A 63 | 8 | 80 | 21 | 27 | 36 | 26 | M6 | 663.20 | 108 |
| | HSK-A 63 | 10 | 85 | 24 | 32 | 41 | 31 | M8x1 | 663.20 | 110 |
| | HSK-A 63 | 12 | 90 | 24 | 32 | 47 | 37 | M10x1 | 663.20 | 112 |
| | HSK-A 63 | 14 | 90 | 27 | 34 | 47 | 37 | M10x1 | 663.20 | 114 |
| | HSK-A 63 | 16 | 95 | 27 | 34 | 50 | 40 | M12x1 | 663.20 | 116 |
| | HSK-A 63 | 18 | 95 | 33 | 42 | 50 | 40 | M12x1 | 663.20 | 118 |
| | HSK-A 63 | 20 | 100 | 33 | 42 | 52 | 42 | M16x1 | 663.20 | 120 |
| | HSK-A 63 | 25 | 115 | 44 | 53 | 58 | 48 | M16x1 | 663.20 | 125 |
| | HSK-A 63 | 32 | 120 | 44 | 53 | 62 | 52 | M16x1 | 663.20 | 132 |

→ Min. clamping depth, Page 306



Spare parts

| DCONWS | 83 950 ... | £ | 83 950 ... | £ | 83 950 ... | £ |
|---------|-------------|-------|------------|------------------|------------|------|
| | | Y7 | | Y7 | | Y7 |
| 3 - 5 | M6x14 - SW2 | 23.98 | 417 | | M2x6 | 1.93 |
| 6 | | | | M5x12,5 - SW2,5 | 23.98 | 418 |
| 8 | | | | M6x12,5 - SW3 | 23.98 | 419 |
| 10 | | | | M8x1x13,5 - SW3 | 23.98 | 420 |
| 12 - 14 | | | | M10x1x13,5 - SW5 | 23.98 | 421 |
| 16 - 18 | M12x1 - SW5 | 32.59 | 510 | | M2x6 | 1.93 |
| 20 - 32 | M16x1 - SW5 | 19.25 | 511 | | M2x6 | 1.93 |

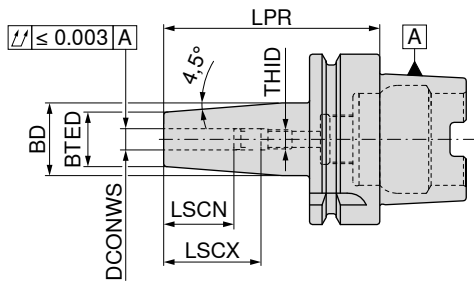
Accessories

| | | |
|----------------------|-----------------------|--------|
| | | |
| Shrink fit extension | Coolant transfer pipe | Others |
| → 241 | → 152 | → 278 |

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG



G 2,5 n_{max} 25000

84 305 ...

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD mm | LSCX mm | LSCN mm | THID | | |
|---------------|------------|--------------|-----------|------------|----------|------------|------------|-------|--------|--------|
| | | | | | | | | | £ | |
| short | HSK-A 100 | 6 | 85 | 21 | 27 | 36 | 26 | M5 | 460.20 | 106 |
| | HSK-A 100 | 8 | 85 | 21 | 27 | 36 | 26 | M6 | 460.20 | 108 |
| | HSK-A 100 | 10 | 90 | 24 | 32 | 41 | 31 | M8x1 | 460.20 | 110 |
| | HSK-A 100 | 12 | 95 | 24 | 32 | 47 | 37 | M10x1 | 460.20 | 112 |
| | HSK-A 100 | 14 | 95 | 27 | 34 | 47 | 37 | M10x1 | 460.20 | 114 |
| | HSK-A 100 | 16 | 100 | 27 | 34 | 50 | 40 | M12x1 | 460.20 | 116 |
| | HSK-A 100 | 18 | 100 | 33 | 42 | 50 | 40 | M12x1 | 460.20 | 118 |
| | HSK-A 100 | 20 | 105 | 33 | 42 | 52 | 42 | M16x1 | 460.20 | 120 |
| | HSK-A 100 | 25 | 115 | 44 | 53 | 58 | 48 | M16x1 | 460.20 | 125 |
| | HSK-A 100 | 32 | 120 | 44 | 53 | 62 | 52 | M16x1 | 460.20 | 132 |
| medium length | HSK-A 100 | 6 | 120 | 21 | 27 | 36 | 26 | M5 | 531.67 | 206 |
| | HSK-A 100 | 8 | 120 | 21 | 27 | 36 | 26 | M6 | 531.67 | 208 |
| | HSK-A 100 | 10 | 120 | 24 | 32 | 41 | 31 | M8x1 | 531.67 | 210 |
| | HSK-A 100 | 12 | 120 | 24 | 32 | 47 | 37 | M10x1 | 531.67 | 212 |
| | HSK-A 100 | 14 | 120 | 27 | 34 | 47 | 37 | M10x1 | 531.67 | 214 |
| | HSK-A 100 | 16 | 120 | 27 | 34 | 50 | 40 | M12x1 | 531.67 | 216 |
| | HSK-A 100 | 18 | 120 | 33 | 42 | 50 | 40 | M12x1 | 531.67 | 218 |
| | HSK-A 100 | 20 | 120 | 33 | 42 | 52 | 42 | M16x1 | 531.67 | 220 |
| | HSK-A 100 | 25 | 120 | 44 | 53 | 58 | 48 | M16x1 | 531.67 | 225 |
| | extra-long | HSK-A 100 | 6 | 160 | 21 | 27 | 36 | 26 | M5 | 610.97 |
| HSK-A 100 | | 8 | 160 | 21 | 27 | 36 | 26 | M6 | 610.97 | 308 |
| HSK-A 100 | | 10 | 160 | 24 | 32 | 41 | 31 | M8x1 | 610.97 | 310 |
| HSK-A 100 | | 12 | 160 | 24 | 32 | 47 | 37 | M10x1 | 610.97 | 312 |
| HSK-A 100 | | 14 | 160 | 27 | 34 | 47 | 37 | M10x1 | 610.97 | 314 |
| HSK-A 100 | | 16 | 160 | 27 | 34 | 50 | 40 | M12x1 | 610.97 | 316 |
| HSK-A 100 | | 18 | 160 | 33 | 42 | 50 | 40 | M12x1 | 610.97 | 318 |
| HSK-A 100 | | 20 | 160 | 33 | 42 | 52 | 42 | M16x1 | 610.97 | 320 |
| HSK-A 100 | | 25 | 160 | 44 | 53 | 58 | 48 | M16x1 | 610.97 | 325 |
| HSK-A 100 | | 32 | 160 | 44 | 53 | 62 | 52 | M16x1 | 610.97 | 332 |

→ Min. clamping depth, Page 306

Version for MMS heat shrink adapter 4.5° – 1 and 2-channel



TG

| | | |
|---------------|---------|-----------|
| 84 318 | HSK-63 | 1-channel |
| 84 318 | HSK-100 | 1-channel |



This article can be found in our online shop at cuttingtools.ceratitis.com



TG

| | | |
|---------------|---------|-----------|
| 84 319 | HSK-63 | 2-channel |
| 84 319 | HSK-100 | 2-channel |



This article can be found in our online shop at cuttingtools.ceratitis.com

Spare parts heat shrink adapter 4.5°



| Spare parts | | 83 950 ... | |
|-------------|------------------|------------|-----|
| DCONWS | | £ | Y7 |
| 6 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 8 | M6x12,5 - SW3 | 23.98 | 419 |
| 10 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 12 - 14 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 16 - 18 | M12x1x13,5 - SW5 | 23.98 | 422 |
| 20 - 32 | M16x1x13,5 - SW8 | 27.66 | 424 |

Accessories

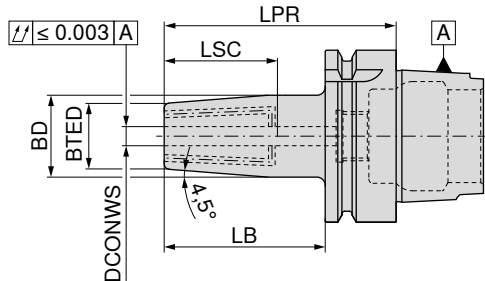
| | | |
|---|---|---|
|  |  |  |
| Shrink fit extension | Coolant transfer pipe | Others |
| → 241 | → 152 | → 278 |

Shrink fit adapters 4.5°

- ▲ Version for high clamping force
- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with adjustable back stop



G 2,5 n_{max} 25000

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD mm | LB mm | LSC mm | 84 717 ... | |
|-------|-----------|--------------|-----------|------------|----------|----------|-----------|------------|-----|
| | | | | | | | | £ | Y8 |
| short | HSK-A 63 | 6 | 80 | 21 | 26 | 54 | 36.5 | 472.95 | 606 |
| | HSK-A 63 | 8 | 80 | 21 | 26 | 54 | 36.5 | 472.95 | 608 |
| | HSK-A 63 | 10 | 85 | 24 | 30 | 59 | 41.5 | 472.95 | 610 |
| | HSK-A 63 | 12 | 90 | 24 | 30 | 64 | 46.5 | 472.95 | 612 |
| | HSK-A 63 | 14 | 90 | 27 | 34 | 64 | 46.5 | 472.95 | 614 |
| | HSK-A 63 | 16 | 95 | 27 | 34 | 69 | 49.5 | 472.95 | 616 |
| | HSK-A 63 | 18 | 95 | 33 | 41 | 69 | 49.5 | 472.95 | 618 |
| | HSK-A 63 | 20 | 100 | 33 | 41 | 74 | 51.5 | 472.95 | 620 |
| | HSK-A 63 | 25 | 115 | 44 | 52 | 89 | 57.5 | 495.10 | 625 |
| | HSK-A 63 | 32 | 120 | 44 | 52 | 94 | 61.5 | 660.23 | 632 |
| | HSK-A 100 | 6 | 85 | 21 | 26 | 56 | 36.5 | 666.65 | 106 |
| | HSK-A 100 | 8 | 85 | 21 | 26 | 56 | 36.5 | 666.65 | 108 |
| | HSK-A 100 | 10 | 90 | 24 | 30 | 56 | 41.5 | 666.65 | 110 |
| | HSK-A 100 | 12 | 95 | 24 | 30 | 66 | 46.5 | 666.65 | 112 |
| | HSK-A 100 | 14 | 95 | 27 | 34 | 66 | 46.5 | 666.65 | 114 |
| | HSK-A 100 | 16 | 100 | 27 | 34 | 71 | 49.5 | 666.65 | 116 |
| | HSK-A 100 | 18 | 100 | 33 | 42 | 71 | 49.5 | 666.65 | 118 |
| | HSK-A 100 | 20 | 105 | 33 | 42 | 76 | 51.5 | 666.65 | 120 |
| | HSK-A 100 | 25 | 115 | 44 | 53 | 86 | 57.5 | 688.62 | 125 |
| | HSK-A 100 | 32 | 120 | 44 | 53 | 91 | 61.5 | 710.91 | 132 |

→ Min. clamping depth, Page 306



Stop screw IK



Sealing screw

Spare parts

| DCONWS | | £ | | £ | | |
|---------|-----------|-------|-----|------|------|-----|
| 6 | M5x0,8x14 | 10.90 | 402 | M3x6 | 2.32 | 411 |
| 8 | M6x1x16 | 10.90 | 403 | M3x6 | 2.32 | 411 |
| 10 | M8x1x20 | 12.29 | 404 | M3x6 | 2.32 | 411 |
| 12 - 18 | M10x1x20 | 13.71 | 405 | M3x6 | 2.32 | 411 |
| 20 - 32 | M12x1x20 | 14.08 | 406 | M4x8 | 2.32 | 412 |

Sealing screw for closing of two additional coolant holes.

Accessories

| | | |
|----------------------|-----------------------|--------|
| | | |
| Shrink fit extension | Coolant transfer pipe | Others |
| → 241 | → 152 | → 278 |

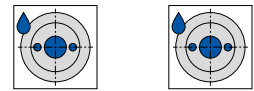
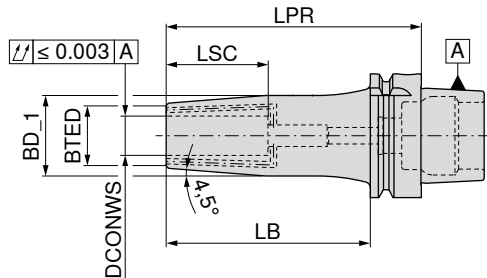
Shrink fit adapters 4.5°

- ▲ Version for high clamping force
- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with adjustable back stop

TG



G 2,5 n_{max} 25000 G 2,5 n_{max} 25000

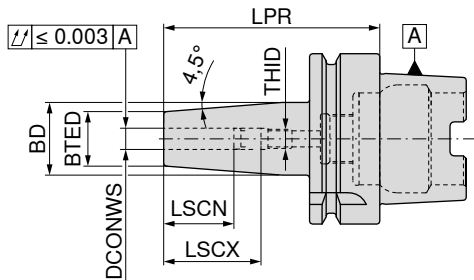
| | Adapter | DCONWS mm | LPR mm | BTED mm | BD_1 mm | LB mm | LSC mm | G 2,5 n _{max} 25000 | |
|------------|-----------|--------------|-----------|------------|------------|----------|-----------|------------------------------|------------|
| | | | | | | | | £ Y8 | £ Y8 |
| long | HSK-A 63 | 6 | 130 | 21 | 27 | 104 | 36.5 | 660.23 | 606 |
| | HSK-A 63 | 8 | 130 | 21 | 27 | 104 | 36.5 | 660.23 | 608 |
| | HSK-A 63 | 10 | 130 | 24 | 32 | 104 | 41.5 | 660.23 | 610 |
| | HSK-A 63 | 12 | 130 | 24 | 32 | 104 | 46.5 | 660.23 | 612 |
| | HSK-A 63 | 14 | 130 | 27 | 34 | 104 | 46.5 | 660.23 | 614 |
| | HSK-A 63 | 16 | 130 | 27 | 34 | 104 | 49.5 | 660.23 | 616 |
| | HSK-A 63 | 18 | 130 | 33 | 41 | 104 | 49.5 | 660.23 | 618 |
| | HSK-A 63 | 20 | 130 | 33 | 41 | 104 | 51.5 | 660.23 | 620 |
| | HSK-A 100 | 6 | 130 | 21 | 27 | 101 | 36.5 | 904.43 | 106 |
| | HSK-A 100 | 8 | 130 | 21 | 27 | 101 | 36.5 | 904.43 | 108 |
| | HSK-A 100 | 10 | 130 | 24 | 32 | 101 | 41.5 | 904.43 | 110 |
| | HSK-A 100 | 12 | 130 | 24 | 32 | 101 | 46.5 | 904.43 | 112 |
| | HSK-A 100 | 14 | 130 | 27 | 34 | 101 | 46.5 | 904.43 | 114 |
| | HSK-A 100 | 16 | 130 | 27 | 34 | 101 | 49.5 | 904.43 | 116 |
| HSK-A 100 | 18 | 130 | 33 | 41 | 101 | 49.5 | 904.43 | 118 | |
| HSK-A 100 | 20 | 130 | 33 | 41 | 101 | 51.5 | 904.43 | 120 | |
| extra-long | HSK-A 63 | 6 | 160 | 21 | 27 | 134 | 36.5 | | 723.49 606 |
| | HSK-A 63 | 8 | 160 | 21 | 27 | 134 | 36.5 | | 723.49 608 |
| | HSK-A 63 | 10 | 160 | 24 | 32 | 134 | 41.5 | | 723.49 610 |
| | HSK-A 63 | 12 | 160 | 24 | 32 | 134 | 46.5 | | 723.49 612 |
| | HSK-A 63 | 14 | 160 | 27 | 34 | 134 | 46.5 | | 723.49 614 |
| | HSK-A 63 | 16 | 160 | 27 | 34 | 134 | 49.5 | | 723.49 616 |
| | HSK-A 63 | 18 | 160 | 33 | 41 | 134 | 49.5 | | 723.49 618 |
| | HSK-A 63 | 20 | 160 | 33 | 41 | 134 | 51.5 | | 723.49 620 |
| | HSK-A 63 | 25 | 160 | 44 | 52 | 134 | 57.5 | | 694.70 625 |
| | HSK-A 100 | 6 | 160 | 21 | 27 | 131 | 36.5 | | 990.03 106 |
| | HSK-A 100 | 8 | 160 | 21 | 27 | 131 | 36.5 | | 990.03 108 |
| | HSK-A 100 | 10 | 160 | 24 | 32 | 131 | 41.5 | | 990.03 110 |
| | HSK-A 100 | 12 | 160 | 24 | 32 | 131 | 46.5 | | 990.03 112 |
| | HSK-A 100 | 14 | 160 | 27 | 34 | 131 | 46.5 | | 990.03 114 |
| | HSK-A 100 | 16 | 160 | 27 | 34 | 131 | 49.5 | | 990.03 116 |
| | HSK-A 100 | 18 | 160 | 33 | 41 | 131 | 49.5 | | 990.03 118 |
| | HSK-A 100 | 20 | 160 | 33 | 41 | 131 | 51.5 | | 990.03 120 |
| | HSK-A 100 | 25 | 160 | 44 | 53 | 131 | 57.5 | | 990.03 125 |
| HSK-A 100 | 32 | 160 | 44 | 53 | 131 | 61.5 | | 990.03 132 | |

→ Min. clamping depth, Page 306

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip on request

TG



G 2,5 n_{max} 25000

82 310 ...

| | Adapter | DCONWS | LPR | BTED | BD | LSCX | LSCN | THID | | | |
|---------------|----------|--------|-----|------|----|------|-------|-------|--------|--------|-------|
| | | | | | | | | | mm | mm | mm |
| short | HSK-A 63 | 3 | 80 | 10 | 15 | 22 | 12 | | | 244.34 | 10357 |
| | HSK-A 63 | 4 | 80 | 15 | 22 | 26 | 16 | | | 244.34 | 10457 |
| | HSK-A 63 | 5 | 80 | 15 | 22 | 30 | 20 | | | 244.34 | 10557 |
| | HSK-A 63 | 6 | 80 | 21 | 27 | 36 | 26 | M5 | | 244.34 | 10657 |
| | HSK-A 63 | 8 | 80 | 21 | 27 | 36 | 26 | M6 | | 244.34 | 10857 |
| | HSK-A 63 | 10 | 85 | 24 | 32 | 41 | 31 | M8x1 | | 244.34 | 11057 |
| | HSK-A 63 | 12 | 90 | 24 | 32 | 47 | 37 | M10x1 | | 244.34 | 11257 |
| | HSK-A 63 | 14 | 90 | 27 | 34 | 47 | 37 | M10x1 | | 244.34 | 11457 |
| | HSK-A 63 | 16 | 95 | 27 | 34 | 50 | 40 | M12x1 | | 244.34 | 11657 |
| | HSK-A 63 | 18 | 95 | 33 | 42 | 50 | 40 | M12x1 | | 244.34 | 11857 |
| | HSK-A 63 | 20 | 100 | 33 | 42 | 52 | 42 | M16x1 | | 244.34 | 12057 |
| | HSK-A 63 | 25 | 115 | 44 | 53 | 58 | 48 | M16x1 | | 244.34 | 12557 |
| HSK-A 63 | 32 | 120 | 44 | 53 | 62 | 52 | M16x1 | | 244.34 | 13257 | |
| medium length | HSK-A 63 | 3 | 120 | 10 | 20 | 12 | 12 | | | 394.51 | 20357 |
| | HSK-A 63 | 4 | 120 | 15 | 22 | 16 | 16 | | | 385.16 | 20457 |
| | HSK-A 63 | 5 | 120 | 15 | 22 | 20 | 20 | | | 385.16 | 20557 |
| | HSK-A 63 | 6 | 120 | 21 | 27 | 36 | 26 | M5 | | 352.46 | 20657 |
| | HSK-A 63 | 8 | 120 | 21 | 27 | 36 | 26 | M6 | | 352.46 | 20857 |
| | HSK-A 63 | 10 | 120 | 24 | 32 | 41 | 31 | M8x1 | | 352.46 | 21057 |
| | HSK-A 63 | 12 | 120 | 24 | 32 | 47 | 37 | M10x1 | | 352.46 | 21257 |
| | HSK-A 63 | 14 | 120 | 27 | 34 | 47 | 37 | M10x1 | | 352.46 | 21457 |
| | HSK-A 63 | 16 | 120 | 27 | 34 | 50 | 40 | M12x1 | | 352.46 | 21657 |
| | HSK-A 63 | 18 | 120 | 33 | 42 | 50 | 40 | M12x1 | | 352.46 | 21857 |
| | HSK-A 63 | 20 | 120 | 33 | 42 | 52 | 42 | M16x1 | | 352.46 | 22057 |
| | HSK-A 63 | 25 | 120 | 44 | 53 | 58 | 48 | M16x1 | | 352.46 | 22557 |
| extra-long | HSK-A 63 | 3 | 160 | 10 | 20 | 12 | 12 | | | 441.85 | 30357 |
| | HSK-A 63 | 4 | 160 | 15 | 22 | 16 | 16 | | | 432.24 | 30457 |
| | HSK-A 63 | 5 | 160 | 15 | 22 | 20 | 20 | | | 432.24 | 30557 |
| | HSK-A 63 | 6 | 160 | 21 | 27 | 36 | 26 | M5 | | 394.51 | 30657 |
| | HSK-A 63 | 8 | 160 | 21 | 27 | 36 | 26 | M6 | | 394.51 | 30857 |
| | HSK-A 63 | 10 | 160 | 24 | 32 | 41 | 31 | M8x1 | | 394.51 | 31057 |
| | HSK-A 63 | 12 | 160 | 24 | 32 | 47 | 37 | M10x1 | | 394.51 | 31257 |
| | HSK-A 63 | 14 | 160 | 27 | 34 | 47 | 37 | M10x1 | | 394.51 | 31457 |
| | HSK-A 63 | 16 | 160 | 27 | 34 | 50 | 40 | M12x1 | | 394.51 | 31657 |
| | HSK-A 63 | 18 | 160 | 33 | 42 | 50 | 40 | M12x1 | | 394.51 | 31857 |
| | HSK-A 63 | 20 | 160 | 33 | 42 | 52 | 42 | M16x1 | | 394.51 | 32057 |
| | HSK-A 63 | 25 | 160 | 44 | 53 | 62 | 52 | M16x1 | | 394.51 | 32557 |

→ Min. clamping depth, Page 306



Stop screw IK

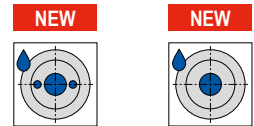
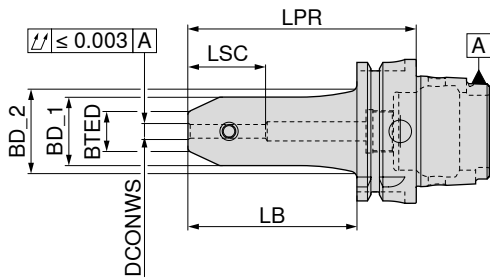
82 950 ...

Spare parts
DCONWS

| DCONWS | | £ | |
|---------|----------------|------|-------|
| 3 - 5 | M6x16 - SW3 | 5.14 | 30100 |
| 6 | M5x16 - SW2,5 | 5.07 | 30000 |
| 8 | M6x16 - SW3 | 5.14 | 30100 |
| 10 | M8x1x16 - SW4 | 5.47 | 30200 |
| 12 - 14 | M10x1x16 - SW5 | 5.79 | 30300 |
| 16 - 18 | M12x1x16 - SW6 | 6.10 | 30400 |
| 20 - 32 | M16x1x16 - SW8 | 6.42 | 30500 |

Sidelock holder (Weldon)

- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**



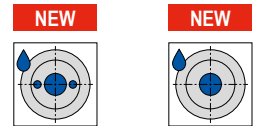
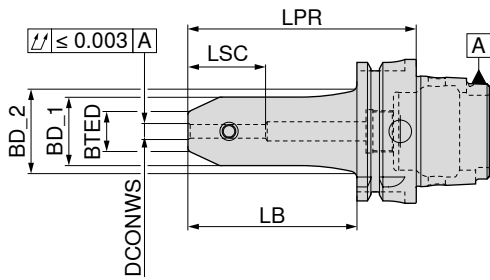
G 2,5 n_{max} 25000 G 2,5 n_{max} 25000

| | Adapter | DCONWS _{H5} mm | LPR mm | BTED mm | BD_1 mm | BD_2 mm | LB mm | LSC mm | 82 740 ... | | 82 741 ... | |
|---------------|-----------|----------------------------|-----------|------------|------------|------------|----------|-----------|---------------------|---------------------|---------------------|---------------------|
| | | | | | | | | | £ Y8/3B | | £ Y8/3B | |
| short | HSK-A 63 | 6 | 65 | 17 | 30 | | 39 | 34 | 203.72 | 10657 | 155.04 | 10657 |
| | HSK-A 63 | 8 | 65 | 20 | 32 | | 39 | 34 | 203.72 | 10857 | 155.04 | 10857 |
| | HSK-A 63 | 10 | 65 | 25 | 35 | | 39 | 39 | 203.72 | 11057 | 155.04 | 11057 |
| | HSK-A 63 | 12 | 80 | 30 | 42 | | 54 | 44 | 203.72 | 11257 | 155.04 | 11257 |
| | HSK-A 63 | 14 | 80 | 32 | 45 | | 54 | 44 | 203.72 | 11457 | 155.04 | 11457 |
| | HSK-A 63 | 16 | 80 | 36 | 48 | | 54 | 47 | 203.72 | 11657 | 155.04 | 11657 |
| | HSK-A 63 | 18 | 80 | 38 | 48 | | 54 | 47 | 203.72 | 11857 | 155.04 | 11857 |
| | HSK-A 63 | 20 | 80 | 40 | 52 | | 54 | 49 | 203.72 | 12057 | 155.04 | 12057 |
| | HSK-A 63 | 25 | 110 | 45 | 63 | | 84 | 54 | 203.72 | 12557 ¹⁾ | 155.04 | 12557 ¹⁾ |
| | HSK-A 63 | 32 | 110 | 52 | 72 | | 84 | 58 | 203.72 | 13257 ¹⁾ | 155.04 | 13257 ¹⁾ |
| | HSK-A 100 | 6 | 80 | 17 | 30 | | 51 | 34 | 273.20 | 10655 | 238.38 | 10655 |
| | HSK-A 100 | 8 | 80 | 20 | 32 | | 51 | 34 | 273.20 | 10855 | 238.38 | 10855 |
| | HSK-A 100 | 10 | 80 | 25 | 35 | | 51 | 39 | 273.20 | 11055 | 238.38 | 11055 |
| | HSK-A 100 | 12 | 80 | 30 | 42 | | 51 | 44 | 273.20 | 11255 | 238.38 | 11255 |
| | HSK-A 100 | 14 | 80 | 32 | 45 | | 51 | 44 | 273.20 | 11455 | 238.38 | 11455 |
| | HSK-A 100 | 16 | 100 | 36 | 48 | | 71 | 47 | 273.20 | 11655 | 238.38 | 11655 |
| | HSK-A 100 | 18 | 100 | 38 | 48 | | 71 | 47 | 273.20 | 11855 | 238.38 | 11855 |
| | HSK-A 100 | 20 | 100 | 40 | 52 | | 71 | 49 | 273.20 | 12055 | 238.38 | 12055 |
| | HSK-A 100 | 25 | 100 | 45 | 65 | | 71 | 54 | 273.20 | 12555 ¹⁾ | 238.38 | 12555 ¹⁾ |
| HSK-A 100 | 32 | 100 | 52 | 72 | | 71 | 58 | 273.20 | 13255 ¹⁾ | 238.38 | 13255 ¹⁾ | |
| HSK-A 100 | 40 | 110 | 60 | 80 | | 81 | 68 | 273.20 | 14055 ¹⁾ | 238.38 | 14055 ¹⁾ | |
| medium length | HSK-A 63 | 6 | 100 | 17 | 30 | 36.2 | 74 | 34 | 222.77 | 20657 | 177.96 | 20657 |
| | HSK-A 63 | 8 | 100 | 20 | 32 | 38.2 | 74 | 34 | 222.77 | 20857 | 177.96 | 20857 |
| | HSK-A 63 | 10 | 100 | 25 | 35 | 41.2 | 74 | 39 | 222.77 | 21057 | 177.96 | 21057 |
| | HSK-A 63 | 12 | 100 | 30 | 42 | | 74 | 44 | 222.77 | 21257 | 177.96 | 21257 |
| | HSK-A 63 | 14 | 100 | 32 | 45 | | 74 | 44 | 222.77 | 21457 | 177.96 | 21457 |
| | HSK-A 63 | 16 | 100 | 36 | 48 | | 74 | 47 | 222.77 | 21657 | 177.96 | 21657 |
| | HSK-A 63 | 18 | 100 | 38 | 48 | | 74 | 47 | 222.77 | 21857 | 177.96 | 21857 |
| | HSK-A 63 | 20 | 100 | 40 | 52 | | 74 | 49 | 222.77 | 22057 | 177.96 | 22057 |
| long | HSK-A 63 | 6 | 130 | 17 | 30 | 36.2 | 104 | 34 | 238.01 | 30657 | 196.10 | 30657 |
| | HSK-A 63 | 8 | 130 | 20 | 32 | 38.2 | 104 | 34 | 238.01 | 30857 | 196.10 | 30857 |
| | HSK-A 63 | 10 | 130 | 25 | 35 | 41.2 | 104 | 39 | 238.01 | 31057 | 196.10 | 31057 |
| | HSK-A 63 | 12 | 130 | 30 | 42 | 48.2 | 104 | 44 | 238.01 | 31257 | 196.10 | 31257 |
| | HSK-A 63 | 14 | 130 | 32 | 45 | 50.5 | 104 | 44 | 238.01 | 31457 | 196.10 | 31457 |
| | HSK-A 63 | 16 | 130 | 36 | 48 | 50.1 | 104 | 47 | 238.01 | 31657 | 196.10 | 31657 |
| | HSK-A 63 | 18 | 130 | 38 | 48 | 50.1 | 104 | 47 | 238.01 | 31857 | 196.10 | 31857 |
| | HSK-A 63 | 20 | 130 | 40 | 52 | | 104 | 49 | 238.01 | 32057 | 196.10 | 32057 |
| | HSK-A 63 | 25 | 130 | 45 | 63 | | 104 | 54 | 238.01 | 32557 ¹⁾ | 196.10 | 32557 ¹⁾ |
| | HSK-A 63 | 32 | 130 | 52 | 72 | | 104 | 58 | 238.01 | 33257 ¹⁾ | 196.10 | 33257 ¹⁾ |

1) Version with two grub screws

Sidelock holder (Weldon)

- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**



G 2,5 n_{max} 25000 G 2,5 n_{max} 25000

| | Adapter | DCONWS _{H5} mm | LPR mm | BTED mm | BD_1 mm | BD_2 mm | LB mm | LSC mm | 82 740 ... | | 82 741 ... | | | |
|------------|-----------|----------------------------|-----------|------------|------------|------------|----------|-----------|------------|---------------------|------------|---------------------|--------|-------|
| | | | | | | | | | £ | | £ | | | |
| extra-long | HSK-A 63 | 6 | 160 | 17 | 30 | 36.2 | 134 | 34 | Y8/3B | 253.24 | 40657 | Y8/3B | 214.43 | 40657 |
| | HSK-A 63 | 8 | 160 | 20 | 32 | 38.2 | 134 | 34 | 253.24 | 40857 | 214.43 | 40857 | | |
| | HSK-A 63 | 10 | 160 | 25 | 35 | 41.2 | 134 | 39 | 253.24 | 41057 | 214.43 | 41057 | | |
| | HSK-A 63 | 12 | 160 | 30 | 42 | 48.2 | 134 | 44 | 253.24 | 41257 | 214.43 | 41257 | | |
| | HSK-A 63 | 14 | 160 | 32 | 45 | 50.5 | 134 | 44 | 253.24 | 41457 | 214.43 | 41457 | | |
| | HSK-A 63 | 16 | 160 | 36 | 48 | 50.1 | 134 | 47 | 253.24 | 41657 | 214.43 | 41657 | | |
| | HSK-A 63 | 18 | 160 | 38 | 48 | 50.1 | 134 | 47 | 253.24 | 41857 | 214.43 | 41857 | | |
| | HSK-A 63 | 20 | 160 | 40 | 52 | | 134 | 49 | 253.24 | 42057 | 214.43 | 42057 | | |
| | HSK-A 63 | 25 | 160 | 45 | 63 | | 134 | 54 | 253.24 | 42557 ¹⁾ | 214.43 | 42557 ¹⁾ | | |
| | HSK-A 100 | 6 | 160 | 17 | 30 | 38.2 | 131 | 34 | 333.44 | 40655 | 310.76 | 40655 | | |
| | HSK-A 100 | 8 | 160 | 20 | 32 | 40.2 | 131 | 34 | 333.44 | 40855 | 310.76 | 40855 | | |
| | HSK-A 100 | 10 | 160 | 25 | 35 | 43.2 | 131 | 39 | 333.44 | 41055 | 310.76 | 41055 | | |
| | HSK-A 100 | 12 | 160 | 30 | 42 | 50.2 | 131 | 44 | 333.44 | 41255 | 310.76 | 41255 | | |
| | HSK-A 100 | 14 | 160 | 32 | 45 | 53.2 | 131 | 44 | 333.44 | 41455 | 310.76 | 41455 | | |
| | HSK-A 100 | 16 | 160 | 36 | 48 | 56.2 | 131 | 47 | 333.44 | 41655 | 310.76 | 41655 | | |
| | HSK-A 100 | 18 | 160 | 38 | 48 | 56.2 | 131 | 47 | 333.44 | 41855 | 310.76 | 41855 | | |
| | HSK-A 100 | 20 | 160 | 40 | 52 | 60.2 | 131 | 49 | 333.44 | 42055 | 310.76 | 42055 | | |
| | HSK-A 100 | 25 | 160 | 45 | 65 | 73.2 | 131 | 54 | 333.44 | 42555 ¹⁾ | 310.76 | 42555 ¹⁾ | | |
| | HSK-A 100 | 32 | 160 | 52 | 72 | 79.5 | 134 | 58 | 333.44 | 43255 ¹⁾ | 310.76 | 43255 ¹⁾ | | |

1) Version with two grub screws

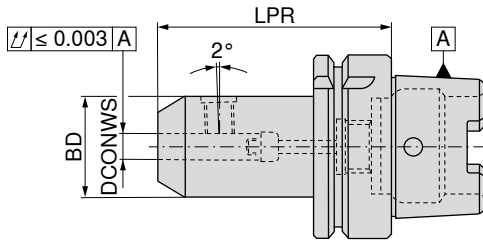
The M3 screws with WAF 1.5 mm supplied can be used to seal the two additional coolant holes.

Accessories



Tool holder for tools with angled clamping flat (Whistle Notch)

- ▲ For shanks according to DIN 6535 HE / 1835 E with angled clamping flat
- ▲ also available with Balluff chip **on request**



G 2,5 n_{max} 25000

82 742 ...

| £ | |
|--------|---------------------|
| Y8/3B | |
| 157.40 | 10657 |
| 157.40 | 10857 |
| 157.40 | 11057 |
| 157.40 | 11257 |
| 157.40 | 11457 |
| 157.40 | 11657 |
| 157.40 | 11857 |
| 157.40 | 12057 |
| 157.40 | 12557 ¹⁾ |
| 157.40 | 13257 ¹⁾ |
| 266.85 | 10655 |
| 266.85 | 10855 |
| 266.85 | 11055 |
| 266.85 | 11255 |
| 266.85 | 11455 |
| 266.85 | 11655 |
| 266.85 | 11855 |
| 266.85 | 12055 |
| 266.85 | 12555 ¹⁾ |
| 266.85 | 13255 ¹⁾ |
| 266.85 | 14055 ¹⁾ |

| | Adapter | DCONWS _{H4} | LPR | BD |
|-----------|-----------|----------------------|-----|----|
| | | mm | mm | mm |
| short | HSK-A 63 | 6 | 80 | 25 |
| | HSK-A 63 | 8 | 80 | 28 |
| | HSK-A 63 | 10 | 80 | 35 |
| | HSK-A 63 | 12 | 90 | 42 |
| | HSK-A 63 | 14 | 90 | 44 |
| | HSK-A 63 | 16 | 100 | 48 |
| | HSK-A 63 | 18 | 100 | 50 |
| | HSK-A 63 | 20 | 100 | 52 |
| | HSK-A 63 | 25 | 110 | 65 |
| | HSK-A 63 | 32 | 110 | 72 |
| | HSK-A 100 | 6 | 90 | 25 |
| | HSK-A 100 | 8 | 90 | 28 |
| | HSK-A 100 | 10 | 90 | 35 |
| | HSK-A 100 | 12 | 100 | 42 |
| | HSK-A 100 | 14 | 100 | 44 |
| | HSK-A 100 | 16 | 100 | 48 |
| | HSK-A 100 | 18 | 100 | 50 |
| | HSK-A 100 | 20 | 110 | 52 |
| | HSK-A 100 | 25 | 120 | 65 |
| | HSK-A 100 | 32 | 120 | 72 |
| HSK-A 100 | 40 | 120 | 80 | |

1) Version with two grub screws



Grubscrew

62 950 ...

Spare parts

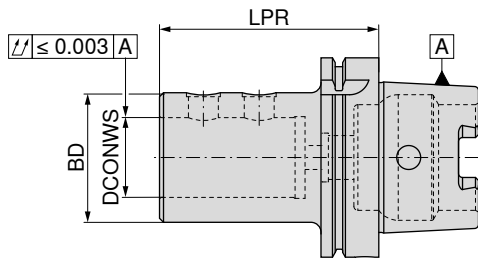
| DCONWS | | £ | |
|---------|----------|------|-----|
| 6 | M6x10 | 1.11 | 006 |
| 8 | M8x10 | 1.11 | 008 |
| 10 | M10x12 | 2.12 | 010 |
| 12 - 14 | M12x16 | 1.68 | 012 |
| 16 - 18 | M14x16 | 2.08 | 016 |
| 20 | M16x16 | 2.21 | 020 |
| 25 | M18x2x20 | 4.27 | 025 |
| 32 - 40 | M20x2x20 | 4.46 | 032 |

Accessories

| | |
|-----------------------|--------|
| | |
| Coolant transfer pipe | Others |
| → 152 | → 278 |

Indexable insert drill adapter ISO 12164 HSK Form A

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

| Adapter | DCONWS mm | LPR mm | BD mm |
|-----------|--------------|-----------|----------|
| HSK-A 63 | 20 | 80 | 40 |
| HSK-A 63 | 25 | 90 | 45 |
| HSK-A 63 | 32 | 90 | 52 |
| HSK-A 63 | 40 | 110 | 65 |
| HSK-A 100 | 20 | 90 | 40 |
| HSK-A 100 | 25 | 100 | 45 |
| HSK-A 100 | 32 | 100 | 52 |
| HSK-A 100 | 40 | 110 | 65 |
| HSK-A 100 | 50 | 120 | 75 |

10 842 ...

| £ | |
|--------|-----|
| 2E/45 | |
| 201.79 | 320 |
| 201.79 | 325 |
| 201.79 | 332 |
| 201.79 | 340 |

| | |
|--------|-----|
| 226.26 | 420 |
| 226.26 | 425 |
| 226.26 | 432 |
| 226.26 | 440 |
| 226.26 | 450 |

Suitable eccentric sleeves can be found in → **Chapter 3, Indexable insert drilling.**



10 950 ...

Spare parts

| DCONWS | | £ | |
|---------|----------|-------|-----|
| 20 | M10x1x10 | 2A/28 | 001 |
| 25 - 32 | M12x1x10 | 4.42 | 002 |
| 40 - 50 | M16x1x12 | 4.42 | 003 |

Accessories

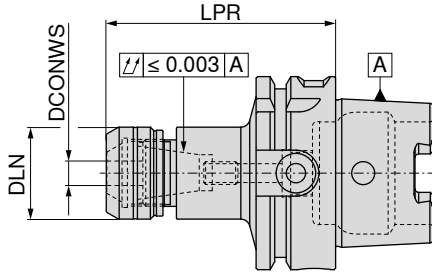
| | |
|-----------------------|--------|
| | |
| Coolant transfer pipe | Others |
| → 152 | → 278 |

ER Precision Collet chuck – PCC

- ▲ For standard or sealing disc lock nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 100$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with lock nut and backstop screw



G 2,5 n_{max} 25000

82 700 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | for collet | Torque moment / Clamping force Nm | £ Y8 | |
|-----------|--------------|-----------|-----------|-------------|--------------------------------------|---------|-------|
| HSK-A 63 | 1 - 10 | 75 | 30 | 426E (ER16) | 40 / 2-70 | 282.77 | 11057 |
| HSK-A 63 | 1 - 10 | 100 | 30 | 426E (ER16) | 40 / 2-70 | 297.01 | 21057 |
| HSK-A 63 | 2 - 16 | 75 | 40 | 430E (ER25) | 80 / 10-160 | 282.77 | 11657 |
| HSK-A 63 | 2 - 16 | 100 | 40 | 430E (ER25) | 80 / 10-160 | 297.01 | 21657 |
| HSK-A 63 | 2 - 20 | 75 | 50 | 470E (ER32) | 125 / 15-250 | 282.77 | 12057 |
| HSK-A 63 | 2 - 20 | 100 | 50 | 470E (ER32) | 125 / 15-250 | 297.01 | 22057 |
| HSK-A 100 | 2 - 16 | 100 | 40 | 430E (ER25) | 80 / 10-160 | 491.96 | 21655 |
| HSK-A 100 | 2 - 16 | 160 | 40 | 430E (ER25) | 80 / 10-160 | 659.39 | 41655 |
| HSK-A 100 | 2 - 20 | 100 | 50 | 470E (ER32) | 125 / 15-250 | 491.96 | 22055 |
| HSK-A 100 | 2 - 20 | 160 | 50 | 470E (ER32) | 125 / 15-250 | 659.39 | 42055 |



Dimension LPR is 4.5 mm longer for ER16 and ER32 and 5.0 mm longer for ER25 when using thro' coolant lock nut

| | Lock nut IK | Lock nut | Backstop screw PCC 2 | Backstop screw PCC 1 |
|-------------|-------------------|-------------------|----------------------|----------------------|
| | 82 950 ... | 82 950 ... | 82 950 ... | 82 950 ... |
| | £ Y8 | £ Y8 | £ Y8 | £ Y8 |
| 426E (ER16) | 82.32 11000 | 77.57 01000 | | M8X3,0 7.75 00100 |
| 430E (ER25) | 82.32 11600 | 77.57 01600 | M18x1,5 10.55 00200 | M8x8 7.75 00300 |
| 470E (ER32) | 82.32 12000 | 77.57 02000 | M18x1,5 10.55 00200 | M8x8 7.75 00300 |

Spare parts for collet

Accessories

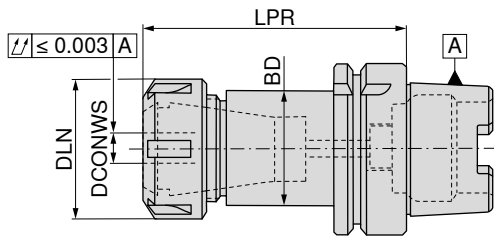


ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut



G 2,5 n_{max} 25000








82 743 ...

| | Adapter | DCONWS mm | LPR mm | DLN mm | TQX Nm | for collet | £ | |
|---------------|-----------|--------------|-----------|-----------|-----------|------------------|--------|-------|
| medium length | HSK-A 63 | 1 - 10 | 100 | 22 | 8 - 56 | 426E (ER16 mini) | 195.87 | 21157 |
| | HSK-A 63 | 1 - 10 | 100 | 32 | 8 - 56 | 426E (ER16) | 167.93 | 21057 |
| | HSK-A 63 | 1 - 16 | 100 | 42 | 24 - 104 | 430E (ER25) | 167.93 | 21657 |
| | HSK-A 63 | 2 - 20 | 100 | 50 | 24 - 136 | 470E (ER32) | 167.93 | 22057 |
| | HSK-A 63 | 3 - 26 | 100 | 63 | 176 | 472E (ER40) | 167.93 | 22657 |
| long | HSK-A 100 | 1 - 10 | 100 | 32 | 8 - 56 | 426E (ER16) | 285.71 | 21055 |
| | HSK-A 100 | 1 - 16 | 100 | 42 | 24 - 104 | 430E (ER25) | 285.71 | 21655 |
| | HSK-A 100 | 2 - 20 | 100 | 50 | 24 - 136 | 470E (ER32) | 285.71 | 22055 |
| | HSK-A 100 | 3 - 26 | 100 | 63 | 176 | 472E (ER40) | 285.71 | 22655 |
| extra-long | HSK-A 63 | 1 - 10 | 160 | 22 | 8 - 56 | 426E (ER16 mini) | 195.87 | 41157 |
| | HSK-A 63 | 1 - 10 | 160 | 32 | 8 - 56 | 426E (ER16) | 236.20 | 41057 |
| | HSK-A 63 | 1 - 16 | 160 | 42 | 24 - 104 | 430E (ER25) | 236.20 | 41657 |
| | HSK-A 63 | 2 - 20 | 160 | 50 | 24 - 136 | 470E (ER32) | 236.20 | 42057 |
| | HSK-A 63 | 3 - 26 | 160 | 63 | 176 | 472E (ER40) | 236.20 | 42657 |
| | HSK-A 100 | 1 - 10 | 160 | 32 | 8 - 56 | 426E (ER16) | 370.98 | 41055 |
| | HSK-A 100 | 1 - 16 | 160 | 42 | 24 - 104 | 430E (ER25) | 370.98 | 41655 |
| | HSK-A 100 | 2 - 20 | 160 | 50 | 24 - 136 | 470E (ER32) | 370.98 | 42055 |
| | HSK-A 100 | 3 - 26 | 160 | 63 | 176 | 472E (ER40) | 370.98 | 42655 |
| extra long | HSK-A 100 | 1 - 10 | 200 | 32 | 8 - 56 | 426E (ER16) | 474.38 | 51055 |
| | HSK-A 100 | 1 - 16 | 200 | 42 | 24 - 104 | 430E (ER25) | 474.38 | 51655 |
| | HSK-A 100 | 2 - 20 | 200 | 50 | 24 - 136 | 470E (ER32) | 474.38 | 52055 |
| | HSK-A 100 | 3 - 26 | 200 | 63 | 176 | 472E (ER40) | 474.38 | 52655 |



Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts

Spare parts ER collet chucks

| |  Lock nut IK 83 950 ... | |  Lock nut 62 950 ... | |  Y clamping key 83 357 ... | |  ER Mini clamping key 83 950 ... | |  Mini lock nut 62 950 ... | |  Mini IK 83 950 ... | |  Stop screw IK 82 950 ... | |
|------------------------|--|-----|---|-----|---|-----|--|-----|--|-----|--|-----|--|-------|
| Spare parts for collet | £ Y8 | | £ W7/6B | | £ Y8 | | £ Y8 | | £ W7 | | £ Y8 | | £ Y8/3B | |
| 426E (ER16 mini) | | | | | | | 47.39 | 101 | 44.48 | 066 | 107.02 | 058 | 5.07 | 30000 |
| 426E (ER16) | 82.98 | 054 | 25.64 | 054 | 28.20 | 116 | | | | | | | | |
| 430E (ER25) | 96.66 | 055 | 26.70 | 055 | 28.20 | 125 | | | | | | | | |
| 470E (ER32) | 103.38 | 056 | 27.37 | 056 | 41.07 | 132 | | | | | | | | |
| 472E (ER40) | 124.40 | 057 | 28.36 | 057 | 46.52 | 140 | | | | | | | | |

Accessories

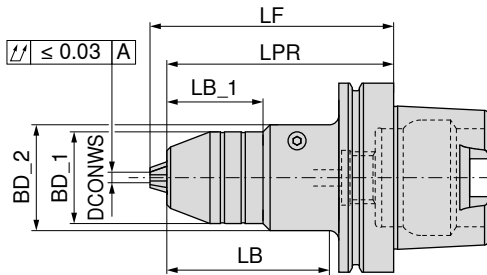
|  ER collet |  Coolant transfer pipe |  Others |
|--|--|---|
| → 262–270, 273 | → 152 | → 278 |

Short drill chuck – NC 2010

- ▲ Independent of direction of rotation
- ▲ Torque Moment = 12 Nm
- ▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder including clamping key SW4



G 6,3 n_{max} 10000

84 716 ...

£
Y8

696.54 613
735.82 616

| Adapter | DCONWS mm | BD_1 mm | BD_2 mm | LB_1 mm | LB mm | LPR mm | LF mm |
|-----------|--------------|------------|------------|------------|----------|-----------|----------|
| HSK-A 63 | 0,5 - 13 | 48.5 | 56 | 50.9 | | 126.0 | 116.9 |
| HSK-A 63 | 2,5 - 16 | 51.0 | 56 | 50.9 | | 127.5 | 116.9 |
| HSK-A 100 | 0,5 - 13 | 48.5 | 56 | 50.9 | 86 | 129.0 | 120.0 |
| HSK-A 100 | 2,5 - 16 | 51.0 | 56 | 50.9 | 86 | 130.5 | 120.0 |

989.67 113
1,034.84 116

Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Accessories

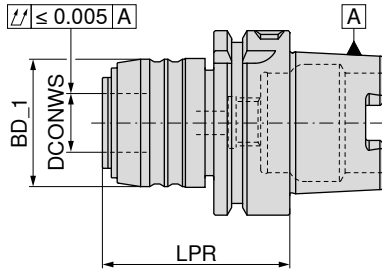


Others

→ 278

Synchro tapping chuck with minimum length compensation

- ▲ For collets according to DIN 6499
- ▲ With length compensation under tension and under compression (LZD)
- ▲ $p_{max} = 50$ bar
- ▲ also available with Balluff chip on request



| Adapter | cutting range | SZID | DCONWS mm | LPR mm | BD_1 mm | LZD± mm |
|-----------|---------------|------|-----------|--------|---------|-----------|
| HSK-A 63 | M3 - M12 | 1 | 20 | 64 | 43 | 1,0 / 0,2 |
| HSK-A 63 | M6 - M20 | 2 | 32 | 97 | 60 | 1,0 / 0,2 |
| HSK-A 100 | M3 - M12 | 1 | 20 | 70 | 43 | 1,0 / 0,2 |
| HSK-A 100 | M6 - M20 | 2 | 32 | 91 | 60 | 1,0 / 0,2 |

83 724 ...

| £ | Y8 |
|--------|-----|
| 435.88 | 612 |
| 542.15 | 620 |
| 688.62 | 112 |
| 814.96 | 120 |

Accessories



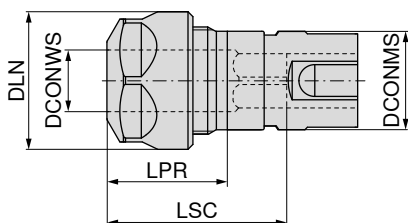
Coolant transfer pipe → 152
Others → 278

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



| SZID | DCONWS mm | cutting range | LPR mm | DLN mm | LSC mm | for collet | DCONMS mm |
|------|-----------|---------------|--------|--------|--------|-------------|-----------|
| 1 | 2 - 10 | M3 - M12 | 24 | 28 | 42 | 426E (ER16) | 20 |
| 2 | 2 - 16 | M6 - M20 | 28 | 42 | 59 | 430E (ER25) | 32 |

83 608 ...

| £ | Y8 |
|--------|-------------------|
| 236.04 | 012 ¹⁾ |
| 274.95 | 020 |

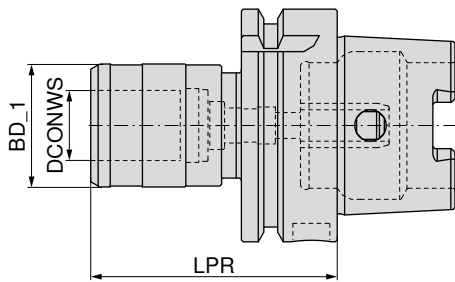
1) with 6 position lock nut

Spare parts for synchronous tapping chucks

| Spare parts for Article no. | 62 950 ... | | 83 950 ... | | 62 950 ... | | 83 357 ... | | | | |
|-----------------------------|------------|----------------|------------|-----|------------|-------|------------|-------|-----|-------|-----|
| | £ | W7 | £ | Y8 | £ | W7 | £ | Y8 | | | |
| 83 608 012 | | M22x1,5 - SW25 | 32.23 | 044 | M22x1,5 | 82.98 | 054 | 25.64 | 054 | 28.20 | 116 |
| 83 608 020 | | M32x1,5 | 96.66 | 055 | M32x1,5 | 26.70 | 055 | 26.70 | 055 | 28.20 | 125 |

Quick change tap chuck with length compensation

- ▲ With length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip on request



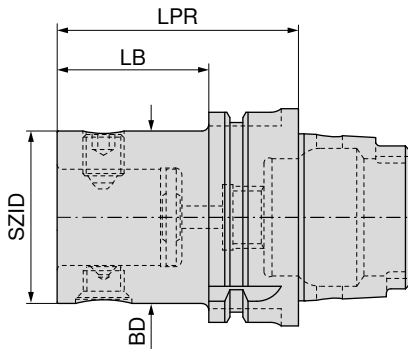
| Adapter | SZID | LPR | BD_1 | DCONWS | LZD± | 83 712 ... | |
|-----------|------|-----|------|--------|------|------------|-----|
| | | mm | mm | mm | mm | £ | |
| HSK-A 63 | 01 | 72 | 41 | 19 | 7,5 | 958.13 | 612 |
| HSK-A 63 | 02 | 110 | 60 | 31 | 10 | 1,114.16 | 620 |
| HSK-A 100 | 01 | 80 | 41 | 19 | 7,5 | 1,616.28 | 112 |
| HSK-A 100 | 02 | 100 | 60 | 31 | 10 | 1,420.75 | 120 |

Accessories

| | | |
|---|---|---|
|  |  |  |
| Collet | Coolant transfer pipe | Others |
| → 282, 284-286 | → 152 | → 278 |

Adapter with ABS Connection

▲ also available with Balluff chip **on request**



G 6,3 n_{max} 10000

84 200 ...

| Adapter | KOMET no. | SZID | BD | LPR | LB | £ | |
|-----------|-----------|---------|----|-----|----|--------|-------|
| | | | mm | mm | mm | 3E | |
| HSK-A 63 | A06 30120 | ABS 25 | 25 | 50 | 24 | 282.92 | 06390 |
| HSK-A 63 | A06 30130 | ABS 32 | 32 | 50 | 24 | 282.92 | 06389 |
| HSK-A 63 | A06 30140 | ABS 40 | 40 | 60 | 34 | 282.92 | 06388 |
| HSK-A 63 | A06 30150 | ABS 50 | 50 | 70 | 44 | 282.92 | 06397 |
| HSK-A 63 | A06 30160 | ABS 63 | | 80 | 54 | 282.92 | 06396 |
| HSK-A 63 | A06 30170 | ABS 80 | | 100 | 74 | 282.92 | 06392 |
| HSK-A 100 | A06 50180 | ABS 100 | | 100 | 71 | 311.79 | 10091 |
| HSK-A 100 | A06 50120 | ABS 25 | 25 | 60 | 31 | 311.79 | 10090 |
| HSK-A 100 | A06 50130 | ABS 32 | 32 | 60 | 31 | 311.79 | 10089 |
| HSK-A 100 | A06 50140 | ABS 40 | 40 | 80 | 51 | 311.79 | 10088 |
| HSK-A 100 | A06 50150 | ABS 50 | 50 | 80 | 51 | 311.79 | 10097 |
| HSK-A 100 | A06 50160 | ABS 63 | 63 | 80 | 51 | 311.79 | 10096 |
| HSK-A 100 | A06 50170 | ABS 80 | 80 | 90 | 61 | 311.79 | 10092 |

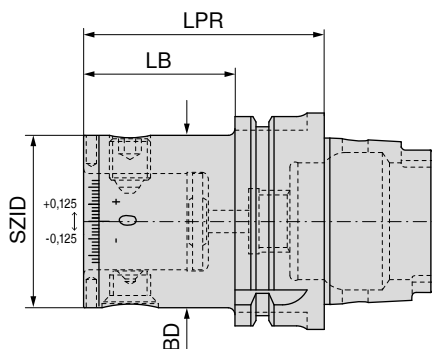
Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

▲ also available with Balluff chip **on request**

Scope of supply:

Eccentric adjuster with adjuster key Ø 2.8 mm

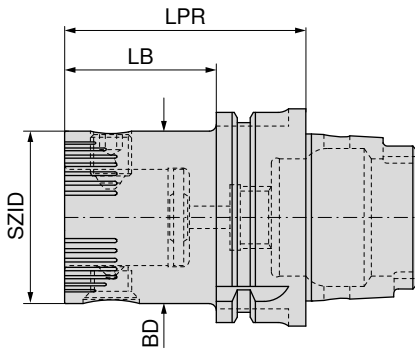


84 203 ...

| Adapter | KOMET no. | SZID | BD | LPR | LB | £ | |
|-----------|-----------|--------|----|------|------|--------|-------|
| | | | mm | mm | mm | W4/6A | |
| HSK-A 63 | A06 36730 | ABS 50 | 50 | 70.0 | 39.5 | 693.22 | 06397 |
| HSK-A 100 | A06 56730 | ABS 50 | 50 | 75.5 | 46.5 | 787.75 | 10097 |
| HSK-A 100 | A06 56740 | ABS 63 | 63 | 80.0 | 51.0 | 955.86 | 10096 |

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request



| Adapter | KOMET no. | SZID | BD | LPR | LB | | |
|-----------|-----------|--------|----|-----|----|--|--|
| | | | mm | mm | mm | | |
| HSK-A 63 | A06 30251 | ABS 50 | 50 | 70 | 44 | | |
| HSK-A 63 | A06 30261 | ABS 63 | | 80 | 54 | | |
| HSK-A 63 | A06 30270 | ABS 80 | | 100 | 74 | | |
| HSK-A 100 | A06 50251 | ABS 50 | 50 | 80 | 51 | | |
| HSK-A 100 | A06 50261 | ABS 63 | 63 | 80 | 51 | | |
| HSK-A 100 | A06 50270 | ABS 80 | 80 | 90 | 61 | | |

| 84 206 ... | |
|------------|-------|
| £ | |
| 3E | |
| 751.78 | 06397 |
| 783.22 | 06396 |
| 1,102.95 | 06392 |
| 819.92 | 10097 |
| 903.81 | 10096 |
| 1,039.97 | 10092 |

| 84 950 ... | | 84 950 ... | |
|------------|-------|------------|-------|
| £ | | £ | |
| XX | | XX | |
| 10.95 | 20300 | 13.91 | 20400 |
| 10.42 | 25500 | 13.22 | 27300 |
| 12.82 | 25600 | 15.60 | 25100 |

Spare parts

SZID

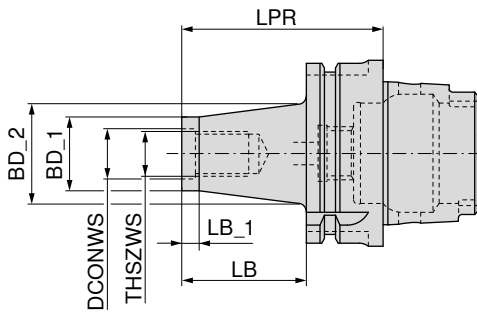
ABS 50
ABS 63
ABS 80

Accessories

| | | |
|-----------------------|-----------|--------|
| | | |
| Coolant transfer pipe | Extension | Others |
| → 152 | → 183 | → 278 |

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 30000

56 714 ...

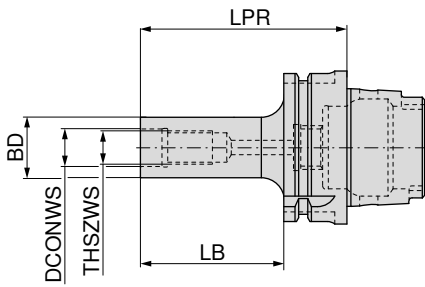
| Adapter | THSZWS | DCONWS | LB | BD_1 | BD_2 | LB_1 | LPR | £ | |
|----------|--------|--------|-----|------|------|------|-----|--------|-----|
| | | mm | mm | mm | mm | mm | mm | WA | |
| HSK-A 63 | M8 | 8.5 | 25 | 13.8 | 15 | 12 | 51 | 542.47 | 081 |
| HSK-A 63 | M8 | 8.5 | 50 | 13.8 | 23 | 12 | 76 | 548.24 | 082 |
| HSK-A 63 | M8 | 8.5 | 75 | 13.8 | 25 | 12 | 101 | 554.23 | 083 |
| HSK-A 63 | M8 | 8.5 | 100 | 13.8 | 30 | 12 | 126 | 560.02 | 084 |
| HSK-A 63 | M10 | 10.5 | 25 | 18.0 | 23 | 12 | 51 | 542.47 | 101 |
| HSK-A 63 | M10 | 10.5 | 50 | 18.0 | 25 | 12 | 76 | 548.24 | 102 |
| HSK-A 63 | M10 | 10.5 | 75 | 18.0 | 30 | 12 | 101 | 554.23 | 103 |
| HSK-A 63 | M10 | 10.5 | 100 | 18.0 | 35 | 12 | 126 | 560.02 | 104 |
| HSK-A 63 | M12 | 12.5 | 25 | 21.0 | 24 | 12 | 51 | 542.47 | 121 |
| HSK-A 63 | M12 | 12.5 | 50 | 21.0 | 30 | 12 | 76 | 548.24 | 122 |
| HSK-A 63 | M12 | 12.5 | 75 | 21.0 | 35 | 12 | 101 | 554.23 | 123 |
| HSK-A 63 | M12 | 12.5 | 100 | 21.0 | 38 | 12 | 126 | 560.02 | 124 |
| HSK-A 63 | M12 | 12.5 | 125 | 21.0 | 43 | 12 | 151 | 566.02 | 125 |
| HSK-A 63 | M12 | 12.5 | 150 | 21.0 | 45 | 12 | 176 | 571.83 | 126 |
| HSK-A 63 | M16 | 17.0 | 25 | 29.0 | 29 | 12 | 51 | 542.47 | 161 |
| HSK-A 63 | M16 | 17.0 | 50 | 29.0 | 34 | 12 | 76 | 548.24 | 162 |
| HSK-A 63 | M16 | 17.0 | 75 | 29.0 | 35 | 12 | 101 | 554.23 | 163 |
| HSK-A 63 | M16 | 17.0 | 100 | 29.0 | 40 | 12 | 126 | 560.02 | 164 |
| HSK-A 63 | M16 | 17.0 | 125 | 29.0 | 44 | 12 | 151 | 568.41 | 165 |
| HSK-A 63 | M16 | 17.0 | 150 | 29.0 | 48 | 12 | 176 | 571.83 | 166 |

Accessories

| | | |
|----------------------------------|--------------------------------|-----------------|
| | | |
| Extension-Reduction set → 251 | Coolant transfer pipe → 152 | Others → 278 |

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 25000

56 719 ...

| Adapter | THSZWS | DCONWS | BD | LB | LPR | £ | WA |
|----------|--------|--------|------|-----|-----|--------|-----|
| HSK-A 63 | M8 | 8.5 | 13.8 | 50 | 76 | 393.55 | 082 |
| HSK-A 63 | M10 | 10.5 | 18.0 | 50 | 76 | 393.55 | 102 |
| HSK-A 63 | M10 | 10.5 | 18.0 | 100 | 126 | 452.46 | 104 |
| HSK-A 63 | M12 | 12.5 | 21.0 | 50 | 76 | 393.55 | 122 |
| HSK-A 63 | M12 | 12.5 | 21.0 | 100 | 126 | 452.46 | 124 |
| HSK-A 63 | M16 | 17.0 | 29.0 | 50 | 76 | 393.55 | 162 |
| HSK-A 63 | M16 | 17.0 | 29.0 | 100 | 126 | 452.46 | 164 |

Accessories

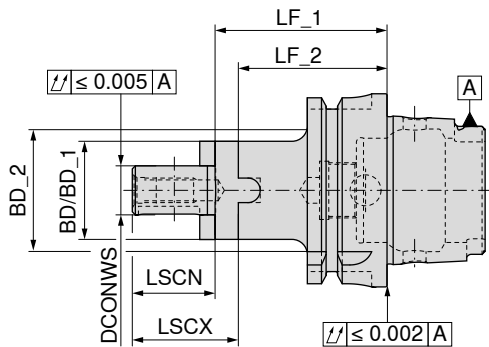
| | | |
|----------------------------------|--------------------------------|-----------------|
| | | |
| Extension-Reduction set → 251 | Coolant transfer pipe → 152 | Others → 278 |

Combination shell mill adapter

- ▲ For milling cutters with transverse or longitudinal groove according to DIN 6358
- ▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



G 2,5 n_{max} 25000

82 744 ...

| | Adapter | DCONWS | LF_1 | LF_2 | BD | BD_1 | BD_2 | LSCX | LSCN | BHTA | £ | |
|---------------|-----------|--------|------|------|----|------|-------|------|------|------|--------|-------|
| | | mm | mm | mm | mm | mm | mm | mm | mm | | Y8/3B | |
| short | HSK-A 63 | 16 | 60 | 50 | 32 | | | 27 | 17 | | 157.90 | 11657 |
| | HSK-A 63 | 22 | 60 | 48 | 40 | | | 31 | 19 | | 157.90 | 12257 |
| | HSK-A 63 | 27 | 60 | 48 | 48 | | | 33 | 21 | | 157.90 | 12757 |
| | HSK-A 63 | 32 | 60 | 46 | 58 | | | 38 | 24 | | 157.90 | 13257 |
| | HSK-A 63 | 40 | 70 | 56 | 70 | | | 41 | 27 | | 157.90 | 14057 |
| | HSK-A 100 | 16 | 60 | 50 | 32 | | | 27 | 17 | | 292.80 | 11655 |
| | HSK-A 100 | 22 | 60 | 48 | 40 | | | 31 | 19 | | 292.80 | 12255 |
| | HSK-A 100 | 27 | 60 | 48 | 48 | | | 33 | 21 | | 292.80 | 12755 |
| | HSK-A 100 | 32 | 60 | 46 | 58 | | | 38 | 24 | | 292.80 | 13255 |
| | HSK-A 100 | 40 | 70 | 56 | 70 | | | 41 | 27 | | 292.80 | 14055 |
| medium length | HSK-A 63 | 16 | 100 | 90 | 32 | | | 27 | 17 | | 175.79 | 21657 |
| | HSK-A 63 | 22 | 100 | 88 | 40 | | | 31 | 19 | | 175.79 | 22257 |
| | HSK-A 63 | 27 | 100 | 88 | 48 | | | 33 | 21 | | 175.79 | 22757 |
| | HSK-A 63 | 32 | 100 | 86 | 58 | | | 38 | 24 | | 175.79 | 23257 |
| | HSK-A 63 | 40 | 100 | 86 | 70 | | | 41 | 27 | | 175.79 | 24057 |
| extra-long | HSK-A 63 | 16 | 160 | 150 | | 32 | 43.21 | 27 | 17 | 4.5° | 201.54 | 41657 |
| | HSK-A 63 | 22 | 160 | 148 | | 40 | 47.25 | 31 | 19 | 3.0° | 201.54 | 42257 |
| | HSK-A 63 | 27 | 160 | 148 | 48 | | | 33 | 21 | | 201.54 | 42757 |
| | HSK-A 63 | 32 | 160 | 146 | 58 | | | 38 | 24 | | 201.54 | 43257 |
| | HSK-A 63 | 40 | 160 | 146 | 70 | | | 41 | 27 | | 201.54 | 44057 |



83 950 ...

83 370 ...

83 950 ...

Spare parts

| DCONWS | | £ | | £ | | £ | |
|--------|-------------|-------|-----|-------|-----|-------|-----|
| | | Y8/3B | | Y8 | | Y8/3B | |
| 16 | 4 x 4 x 20 | 4.17 | 284 | 15.42 | 116 | 7.18 | 113 |
| 22 | 6 x 6 x 25 | 4.17 | 285 | 14.79 | 122 | 8.10 | 124 |
| 27 | 7 x 7 x 25 | 6.62 | 286 | 18.45 | 127 | 8.95 | 125 |
| 32 | 8 x 7 x 28 | 4.72 | 287 | 19.36 | 132 | 10.90 | 126 |
| 40 | 10 x 8 x 32 | 5.57 | 288 | 32.61 | 140 | 12.02 | 112 |

Accessories

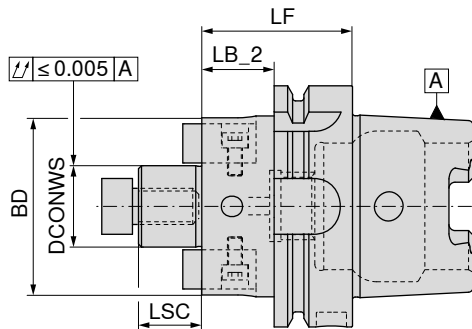
| | | |
|-----------------------|-----------------------|--------|
| | | |
| Milling Adapter Rings | Coolant transfer pipe | Others |
| → 257 | → 152 | → 278 |

Shell mill adapter with reduced flange diameter

- ▲ Screwed drive dogs
- ▲ also available with Balluff chip on request

Scope of supply:

Base body with retaining screw and drive dog



G 2,5 n_{max} 25000

82 315 ...

| | |
|--------|-------|
| £ | |
| Y8/3B | |
| 246.09 | 12257 |
| 246.09 | 12757 |
| 249.40 | 12255 |
| 249.40 | 12755 |

| Adapter | DCONWS mm | LB_2 mm | LF mm | BD mm | LSC mm |
|-----------------|--------------|------------|----------|----------|-----------|
| short HSK-A 63 | 22 | 34 | 60 | 38 | 19 |
| | 27 | 34 | 60 | 48 | 21 |
| short HSK-A 100 | 22 | 31 | 60 | 38 | 19 |
| | 27 | 31 | 60 | 48 | 21 |

These shell mill adapters have been specially developed for MaxiMill 211-KN porcupine cutters. Now they can be clamped perfectly, thanks to the adapted flange diameters.



Screw for drivers



Driver



clamping screw

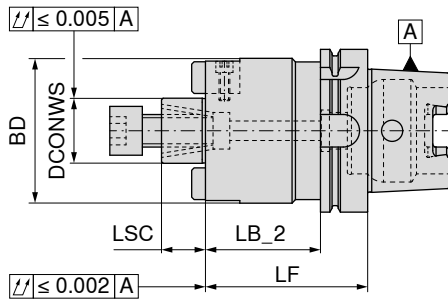
| Spare parts | Screw for drivers | | Driver | | clamping screw | |
|-------------|-------------------|------------|--------|-------------|----------------|----------|
| DCONWS | £ | | £ | | £ | |
| 22 | Y8/3B | 0.76 51700 | Y8/3B | 10.73 51500 | Y8/3B | 8.10 124 |
| 27 | | 0.93 51800 | | 12.23 51600 | | 8.95 125 |

Shell mill adapter

- ▲ for face mills with transverse groove ISO 3937
- ▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder with retaining screw and drive dogs



G 2,5 n_{max} 25000

82 745 ...

| | Adapter | DCONWS | LB_2 | LF | BD | BD_1 | BD_2 | LSC | | |
|---------------|-----------|--------|------|-----|----|------|------|-----|--|----------------------------|
| | | mm | mm | mm | mm | mm | mm | mm | | £ |
| short | HSK-A 63 | 16 | 34 | 60 | 38 | | | 17 | | 223.68 11657 |
| | HSK-A 63 | 22 | 34 | 60 | 48 | | | 19 | | 223.68 12257 |
| | HSK-A 63 | 27 | 34 | 60 | 58 | | | 21 | | 223.68 12757 |
| | HSK-A 63 | 32 | 34 | 60 | 78 | | | 24 | | 223.68 13257 |
| | HSK-A 63 | 40 | 34 | 70 | 88 | | | 27 | | 223.68 14057 ¹⁾ |
| | HSK-A 100 | 16 | 31 | 60 | 38 | | | 17 | | 314.74 11655 |
| | HSK-A 100 | 22 | 31 | 60 | 48 | | | 19 | | 314.74 12255 |
| | HSK-A 100 | 27 | 31 | 60 | 58 | | | 21 | | 314.74 12755 |
| | HSK-A 100 | 32 | 31 | 60 | 78 | | | 24 | | 314.74 13255 |
| | HSK-A 100 | 40 | 41 | 70 | 88 | | | 27 | | 314.74 14055 ¹⁾ |
| medium length | HSK-A 63 | 16 | 104 | 130 | | 38 | 44.3 | 17 | | 261.77 31657 |
| | HSK-A 63 | 22 | 104 | 130 | | 48 | 50.3 | 19 | | 261.77 32257 |
| | HSK-A 63 | 27 | 104 | 130 | 58 | | | 21 | | 261.77 32757 |
| | HSK-A 63 | 32 | 104 | 130 | 78 | | | 24 | | 261.77 33257 |
| | HSK-A 63 | 40 | 104 | 130 | 88 | | | 27 | | 261.77 34057 ¹⁾ |
| | HSK-A 100 | 16 | 101 | 130 | | 38 | 46.3 | 17 | | 404.00 31655 |
| | HSK-A 100 | 22 | 101 | 130 | | 48 | 56.3 | 19 | | 404.00 32255 |
| | HSK-A 100 | 27 | 101 | 130 | | 58 | 66.3 | 21 | | 404.00 32755 |
| | HSK-A 100 | 32 | 101 | 130 | | 78 | 80.3 | 24 | | 404.00 33255 |
| | HSK-A 100 | 40 | 101 | 130 | 88 | | | 27 | | 404.00 34055 ¹⁾ |
| long | HSK-A 63 | 16 | 74 | 100 | | 38 | 44.3 | 17 | | 242.01 21657 |
| | HSK-A 63 | 22 | 74 | 100 | | 48 | 50.3 | 19 | | 242.01 22257 |
| | HSK-A 63 | 27 | 74 | 100 | 58 | | | 21 | | 242.01 22757 |
| | HSK-A 63 | 32 | 74 | 100 | 78 | | | 24 | | 242.01 23257 |
| | HSK-A 63 | 40 | 74 | 100 | 88 | | | 27 | | 242.01 24057 ¹⁾ |
| | HSK-A 100 | 16 | 71 | 100 | | 38 | 46.3 | 17 | | 333.07 21655 |
| | HSK-A 100 | 22 | 71 | 100 | | 48 | 56.3 | 19 | | 333.07 22255 |
| | HSK-A 100 | 27 | 71 | 100 | | 58 | 66.3 | 21 | | 333.07 22755 |
| | HSK-A 100 | 32 | 71 | 100 | | 78 | 80.3 | 24 | | 333.07 23255 |
| | HSK-A 100 | 40 | 71 | 100 | 88 | | | 27 | | 333.07 24055 ¹⁾ |
| extra-long | HSK-A 63 | 16 | 134 | 160 | | 38 | 44.3 | 17 | | 282.09 41657 |
| | HSK-A 63 | 22 | 134 | 160 | | 48 | 50.3 | 19 | | 282.09 42257 |
| | HSK-A 63 | 27 | 134 | 160 | 58 | | | 21 | | 282.09 42757 |
| | HSK-A 63 | 32 | 134 | 160 | 78 | | | 24 | | 282.09 43257 |
| | HSK-A 63 | 40 | 134 | 160 | 88 | | | 27 | | 282.09 44057 ¹⁾ |
| | HSK-A 100 | 16 | 131 | 160 | | 38 | 46.3 | 17 | | 440.83 41655 |
| | HSK-A 100 | 22 | 131 | 160 | | 48 | 56.3 | 19 | | 440.83 42255 |
| | HSK-A 100 | 27 | 131 | 160 | | 58 | 66.3 | 21 | | 440.83 42755 |
| | HSK-A 100 | 32 | 131 | 160 | | 78 | 80.3 | 24 | | 440.83 43255 |
| | HSK-A 100 | 40 | 131 | 160 | 88 | | | 27 | | 440.83 44055 ¹⁾ |

1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters



Cross nut key

83 368 ...



Cross screw

83 367 ...



clamping screw

83 950 ...

| Spare parts | | £ | | £ | | £ | |
|-------------|--|-------|-----|-------|-----|-------|-----|
| DCONWS | | Y8 | | Y8 | | Y8/3B | |
| 16 | | 25.47 | 116 | 6.77 | 016 | 7.18 | 113 |
| 22 | | 31.70 | 122 | 7.53 | 022 | 8.10 | 124 |
| 27 | | 37.27 | 127 | 9.63 | 027 | 8.95 | 125 |
| 32 | | 50.79 | 132 | 15.12 | 032 | 10.90 | 126 |
| 40 | | 50.45 | 140 | 16.18 | 040 | 12.02 | 112 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Screw for drivers

83 950 ...



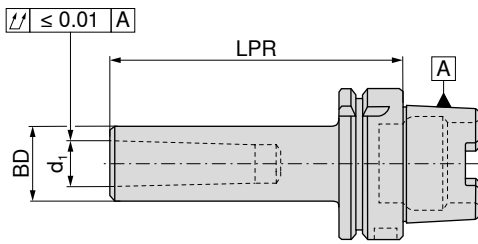
Driver

83 950 ...

| Spare parts | | £ | | £ | |
|-------------|--|-------|--|-------|-----|
| DCONWS | | Y8/3B | | Y8/3B | |
| 16 | | | | 17.35 | 120 |
| 22 | | | | 17.91 | 121 |
| 27 | | | | 19.75 | 122 |
| 32 | | | | 19.96 | 123 |
| 40 | | | | 26.57 | 295 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Milling sleeve adapter for Morse taper shanks to DIN 228-2 D

▲ also available with Balluff chip on request



NEW



G 6,3 n_{max} 8000

82 746 ...

| £ | |
|--------|-------|
| Y8/3B | |
| 151.00 | 01057 |
| 151.00 | 02057 |
| 151.00 | 03057 |
| 151.00 | 04057 |

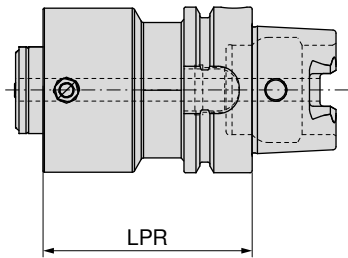
| Adapter | d ₁ | LPR | BD | | |
|-----------|----------------|-----|----|--------|-------|
| | | mm | mm | | |
| HSK-A 63 | MK1 | 100 | 25 | | |
| HSK-A 63 | MK2 | 120 | 32 | | |
| HSK-A 63 | MK3 | 140 | 40 | | |
| HSK-A 63 | MK4 | 160 | 48 | | |
| HSK-A 100 | MK2 | 120 | 32 | 245.81 | 02055 |
| HSK-A 100 | MK3 | 150 | 40 | 245.81 | 03055 |
| HSK-A 100 | MK4 | 170 | 48 | 245.81 | 04055 |

Accessories

| | | |
|---|---|---|
|  |  |  |
| Morse taper adapter sleeve → 236 | Coolant transfer pipe → 152 | Others → 278 |

HSK-T extension

- ▲ for mounting HSK-T adapters according to ISO 12164-3
- ▲ also suitable for HSK-A and HSK-C
- ▲ also available with Balluff chip **on request**



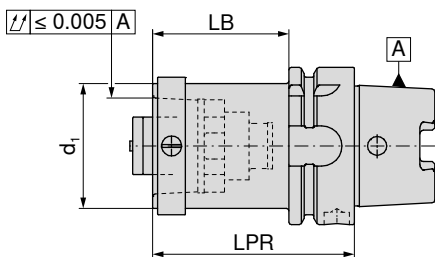
| Adapter | LPR mm | £ | 84 621 ... |
|-----------|-----------|----------|------------|
| HSK-T 63 | 80 | 1,304.15 | 08037 |
| HSK-T 63 | 120 | 1,391.01 | 12037 |
| HSK-T 100 | 125 | 1,738.95 | 12535 |
| HSK-T 100 | 160 | 1,847.65 | 16035 |
| HSK-T 100 | 200 | 1,977.94 | 20035 |

HSK-A reduction

- ▲ for mounting HSK-A adapters according to ISO 12164
- ▲ also available with Balluff chip **on request**

Scope of supply:

with clamping cartridge and cover ring

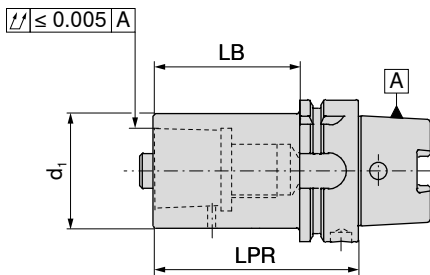


| Adapter | d ₁ | LB mm | LPR mm | £ | 84 040 ... |
|-----------|----------------|----------|-----------|----------|------------|
| HSK-A 63 | HSK-A 40 | 54 | 80 | 1,133.50 | 06359 |
| HSK-A 63 | HSK-A 50 | 54 | 80 | 1,154.77 | 06358 |
| HSK-A 100 | HSK-A 50 | 51 | 80 | 1,344.26 | 10058 |
| HSK-A 100 | HSK-A 63 | 71 | 100 | 1,344.26 | 10057 |

HSK-A/PSC adapter

- ▲ for mounting PSC adapters according to ISO 26623-1
- ▲ also available with Balluff chip **on request**

Scope of supply:
with tightening screw



| Adapter | d ₁ | LB mm | LPR mm | 84 013 ... | |
|-----------|----------------|----------|-----------|------------|-------|
| | | | | £ | |
| HSK-A 63 | PSC 32 | 49 | 75 | 585.84 | 06387 |
| HSK-A 63 | PSC 40 | 54 | 80 | 628.12 | 06395 |
| HSK-A 63 | PSC 50 | 64 | 90 | 628.12 | 06394 |
| HSK-A 100 | PSC 32 | 51 | 80 | 690.99 | 10087 |
| HSK-A 100 | PSC 40 | 61 | 90 | 712.02 | 10095 |
| HSK-A 100 | PSC 50 | 71 | 100 | 733.05 | 10094 |
| HSK-A 100 | PSC 63 | 81 | 110 | 838.64 | 10093 |
| HSK-A 100 | PSC 80 | 91 | 120 | 901.95 | 10086 |

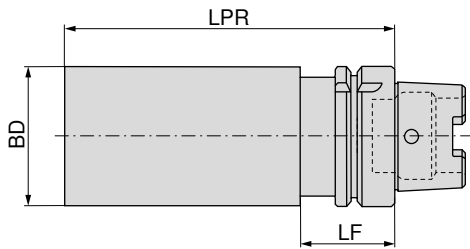
Spare parts
d₁

| d ₁ | £ | | 84 950 ... | £ | |
|----------------|-------|-----|------------|-------|-----|
| | Y8 | | Y8 | Y8 | |
| PSC 32 | 49.77 | 127 | SW8 | 36.12 | 122 |
| PSC 40 | 49.77 | 128 | SW8 | 40.71 | 123 |
| PSC 50 | 49.77 | 129 | SW10 | 40.71 | 124 |
| PSC 63 | 99.37 | 130 | SW14 | 45.31 | 126 |
| PSC 80 | 99.37 | 130 | SW14 | 45.31 | 126 |



Blank

- ▲ Material: 16MnCr5
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Tool 27^{±1} HRC
- ▲ also available with Balluff chip **on request**

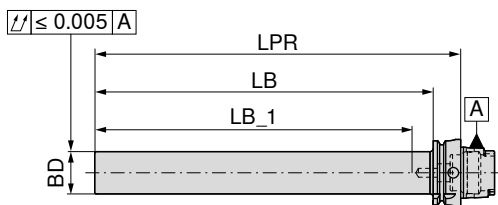


| Adapter | BD mm | LPR mm | LF mm |
|-----------|----------|-----------|----------|
| HSK-A 63 | 63.0 | 200 | 42 |
| HSK-A 63 | 80.0 | 250 | 42 |
| HSK-A 100 | 63.0 | 200 | |
| HSK-A 100 | 80.0 | 250 | |
| HSK-A 100 | 97.5 | 250 | 45 |

| 82 747 ... | |
|------------|-------|
| £ | |
| Y8/3B | |
| 166.85 | 16357 |
| 187.76 | 18057 |
| 250.72 | 16355 |
| 292.80 | 18055 |
| 360.82 | 19755 |

Test arbor

Scope of supply:
in wooden box



| Adapter | BD mm | LPR mm | LB_1 mm | LB mm |
|-----------|----------|-----------|------------|----------|
| HSK-A 63 | 40 | 346 | 300 | 320 |
| HSK-A 100 | 40 | 349 | 300 | 320 |

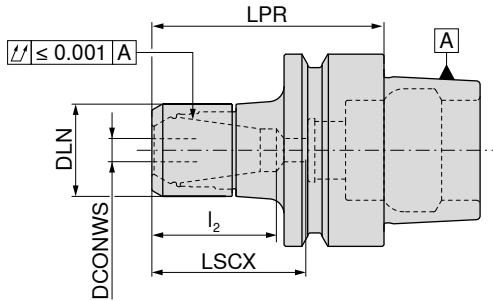
| 81 746 ... | |
|------------|-----|
| £ | |
| Y8/3B | |
| 706.27 | 063 |
| 901.89 | 100 |

ER precision collet chuck – Centro-P

- ▲ for standard or sealed nuts
- ▲ maximum size collet to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ $p_{max} = 80$ bar

Scope of supply:

Holder **without** nut, **without** backstop



G 2,5 n_{max} 30000

84 776 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 mm | for collet | £ | |
|----------|--------------|-----------|-----------|------------|-------------|-------------|--------|-----|
| HSK-E 40 | 2 - 16 | 60 | 40 | 39 | | 430E (ER25) | 448.82 | 417 |
| HSK-E 50 | 2 - 16 | 70 | 40 | 49 | 30 - 39 | 430E (ER25) | 493.83 | 516 |

→ Transmittable torque moments, Page 306



LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1
 Dimension LPR when using tightening nuts with seals 4 mm longer

| Lock nut IK | Lock nut |
|-------------------|-------------------|
| 84 950 ... | 84 950 ... |
| £ Y8 | £ Y8 |
| 103.01 013 | 76.26 003 |

Spare parts for collet

430E (ER25)

Accessories

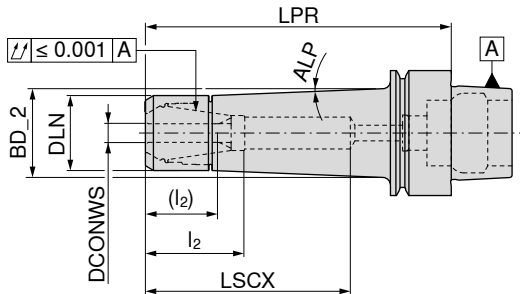
| | | | | | |
|----------------|--------------|----------|-----------------|-----------------------|--------|
| | | | | | |
| ER collet | Sealing ring | Roll key | Roll key device | Coolant transfer pipe | Others |
| → 262-270, 273 | → 274 | → 280 | → 280 | → 152 | → 278 |

ER precision collet chuck, tapered – Centro-P

- ▲ for Mini Clamping Nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar

Scope of supply:

Holder **without** nut, **without** backstop



G 2,5 n_{max} 30000

84 774 ...

| | Adapter | DCONWS mm | LPR mm | DLN mm | BD_2 mm | LSCX mm | l_2 (l_2) mm | ALP | for collet | £ | |
|---------------|----------|--------------|-----------|-----------|------------|------------|-----------------------|------|-------------------|--------|-------|
| short | HSK-E 25 | 1 - 7 | 35 | 16 | | 22 | | | 4008E (ER11 mini) | 301.88 | 07200 |
| | HSK-E 32 | 1 - 7 | 50 | 16 | 17.5 | 31 | 18 - 20 | 4.5° | 4008E (ER11 mini) | 404.03 | 307 |
| | HSK-E 40 | 1 - 7 | 50 | 16 | 17.5 | 31 | 18 - 20 | 4.5° | 4008E (ER11 mini) | 330.31 | 407 |
| | HSK-E 25 | 1 - 10 | 45 | 22 | | 30 | | | 426E (ER16 mini) | 283.88 | 101 |
| | HSK-E 32 | 1 - 10 | 55 | 22 | 25.8 | 40 | 28 - 32 (12 - 22) | 4.5° | 426E (ER16 mini) | 404.03 | 310 |
| | HSK-E 40 | 1 - 10 | 55 | 22 | 25.8 | 38 | 28 - 30 (12 - 20) | 4.5° | 426E (ER16 mini) | 314.50 | 410 |
| medium length | HSK-E 50 | 1 - 10 | 60 | 22 | 25.4 | 39 | 28 - 31 (12 - 21) | 4.5° | 426E (ER16 mini) | 303.86 | 510 |
| | HSK-E 40 | 1 - 7 | 100 | 16 | 25.4 | 64 | 18 - 36 (12 - 26) | 4.5° | 4008E (ER11 mini) | 404.03 | 408 |
| | HSK-E 40 | 1 - 10 | 100 | 22 | 29.0 | 66 | 28 - 48 (12 - 38) | 2.5° | 426E (ER16 mini) | 360.61 | 411 |
| | HSK-E 50 | 1 - 10 | 100 | 22 | 28.2 | 72 | 28 - 48 (12 - 38) | 2.5° | 426E (ER16 mini) | 372.94 | 511 |

→ Transmittable torque moments, Page 306

- 1 LSCX = Clamping depth without back stop screw for shanks
- l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
- Dimension LPR when using tightening nuts with seals 4 mm longer

Spare parts for collet

| | £ | | £ | | £ | | £ | |
|-------------------|-------|-----|-------|-----|-------|-----|-------|-----|
| 4008E (ER11 mini) | Y8 | | Y8 | 041 | Y8 | 340 | Y8 | 336 |
| 426E (ER16 mini) | 93.35 | 035 | 76.59 | 034 | 57.33 | 341 | 38.40 | 337 |

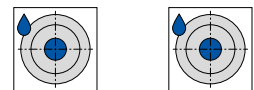
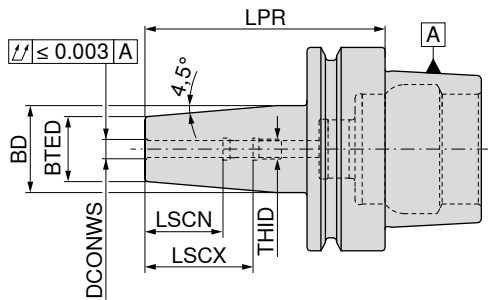
Accessories

| | | | | | | |
|----------------|--------------|--------|----------|-----------------|-----------------------|--------|
| | | | | | | |
| ER collet | Sealing ring | Device | Roll key | Roll key device | Coolant transfer pipe | Others |
| → 262–269, 273 | → 274 | → 279 | → 280 | → 280 | → 152 | → 278 |

Shrink fit adapters

▲ for solid carbide and HSS shanks to h6 tolerance or better

TG



G 2,5 n_{max} 25000 G 2,5 n_{max} 25000

| | Adapter | DCONWS mm | LPR mm | BTED mm | BD mm | LSCX mm | LSCN mm | THID | 84 308 ... | | 84 309 ... | |
|-------|----------|--------------|-----------|------------|----------|------------|------------|-------|------------|-----|------------|-----|
| | | | | | | | | | £ Y8 | | £ Y8 | |
| short | HSK-E 40 | 3 | 60 | 10 | 15 | 28 | 12 | M6 | 345.31 | 103 | | |
| | HSK-E 40 | 4 | 60 | 10 | 15 | 28 | 16 | M6 | 336.48 | 104 | | |
| | HSK-E 40 | 5 | 60 | 10 | 15 | 30 | 20 | M6 | 336.48 | 105 | | |
| | HSK-E 40 | 6 | 80 | 21 | 27 | 36 | 26 | M5 | 283.54 | 106 | | |
| | HSK-E 40 | 8 | 80 | 21 | 27 | 36 | 26 | M6 | 283.54 | 108 | | |
| | HSK-E 40 | 10 | 80 | 24 | 32 | 41 | 31 | M8x1 | 283.54 | 110 | | |
| | HSK-E 40 | 12 | 90 | 24 | 32 | 47 | 37 | M10x1 | 283.54 | 112 | | |
| | HSK-E 40 | 14 | 90 | 27 | 34 | 47 | 37 | M10x1 | 283.54 | 114 | | |
| | HSK-E 40 | 16 | 90 | 27 | 34 | 50 | 40 | M12x1 | 283.54 | 116 | | |
| | HSK-E 50 | 3 | 80 | 10 | 15 | 22 | 12 | M6 | | | 348.89 | 103 |
| | HSK-E 50 | 4 | 80 | 15 | 22 | 26 | 16 | M6 | | | 340.05 | 104 |
| | HSK-E 50 | 5 | 80 | 15 | 22 | 30 | 20 | M6 | | | 340.05 | 105 |
| | HSK-E 50 | 6 | 80 | 21 | 27 | 36 | 26 | M5 | | | 321.49 | 106 |
| | HSK-E 50 | 8 | 80 | 21 | 27 | 36 | 26 | M6 | | | 321.49 | 108 |
| | HSK-E 50 | 10 | 85 | 24 | 32 | 41 | 31 | M8x1 | | | 321.49 | 110 |
| | HSK-E 50 | 12 | 90 | 24 | 32 | 47 | 37 | M10x1 | | | 321.49 | 112 |
| | HSK-E 50 | 14 | 90 | 27 | 34 | 47 | 37 | M10x1 | | | 321.49 | 114 |
| | HSK-E 50 | 16 | 95 | 27 | 34 | 50 | 40 | M12x1 | | | 321.49 | 116 |
| | HSK-E 50 | 18 | 95 | 33 | 42 | 50 | 40 | M12x1 | | | 321.49 | 118 |
| | HSK-E 50 | 20 | 100 | 33 | 42 | 52 | 42 | M16x1 | | | 321.49 | 120 |

→ Min. clamping depth, Page 306

| Spare parts | DCONWS | Stop screw IK | 83 950 ... | | Thro' coolant back stop screw | 83 950 ... | | Stop screw IK | 83 950 ... | |
|-------------|--------|---------------|------------|-----|-------------------------------|------------|-----|------------------|------------|-----|
| | | | £ Y7 | | | £ Y7 | | | £ Y7 | |
| 3 - 5 | | M6x14 - SW2 | 23.98 | 417 | M5x14 - SW2 | 23.98 | 411 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 6 | | | | | | | | M6x12,5 - SW3 | 23.98 | 419 |
| 8 | | | | | | | | M8x1x13,5 - SW3 | 23.98 | 420 |
| 10 | | | | | | | | M10x1x13,5 - SW5 | 23.98 | 421 |
| 12 - 14 | | | | | | | | M12x1x13,5 - SW5 | 23.98 | 422 |
| 16 - 18 | | | | | | | | M16x1x13,5 - SW5 | 27.66 | 423 |
| 20 | | | | | | | | | | |

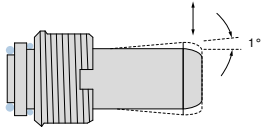
1 Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

Coolant pipe

▲ use up to 100 bar

Scope of supply:

complete, including seals

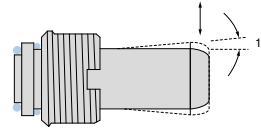


Coolant transfer pipe with strainer

▲ 75 µ filter screen, usable up to 80 bar

Scope of supply:

Complete, including sealing rings and filter screen



| Adapter | | THOD | 83 760 ... | |
|---------|-----------|------|------------|-----|
| | | | £ | |
| | | | Y8 | |
| HSK 32 | M10 x 1 | | 24.08 | 032 |
| HSK 40 | M12 x 1 | | 24.08 | 040 |
| HSK 50 | M16 x 1 | | 24.08 | 050 |
| HSK 63 | M18 x 1 | | 13.15 | 063 |
| HSK 80 | M20 x 1,5 | | 26.37 | 080 |
| HSK 100 | M24 x 1,5 | | 21.50 | 100 |

| Adapter | | THOD | 83 760 ... | |
|---------|-----------|------|------------|-------|
| | | | £ | |
| | | | Y8 | |
| HSK 63 | M18 x 1 | | 57.59 | 16300 |
| HSK 100 | M24 x 1,5 | | 39.97 | 20000 |

NEW

Key

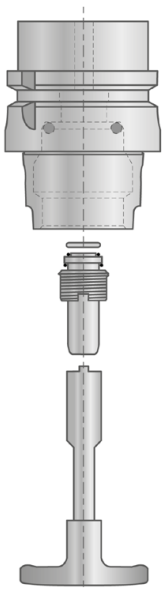


| Adapter | | 83 758 ... | |
|---------|--|------------|-----|
| | | £ | |
| | | Y8 | |
| HSK 32 | | 41.46 | 032 |
| HSK 40 | | 41.82 | 040 |
| HSK 50 | | 45.36 | 050 |
| HSK 63 | | 28.22 | 063 |
| HSK 80 | | 53.42 | 080 |
| HSK 100 | | 52.96 | 100 |

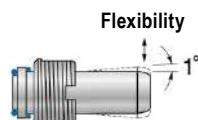


For usage with micro tools with thro' coolant, improved tool life due to reduced contamination of the coolant hole

Coolant pipe for HSK tools



The coolant pipe is ideally mounted in vertical direction – from the bottom to the top. In this manner the sealing ring is prevented from being compressed during locating which would cause the loss of its sealing function. After mounting, the coolant pipe can be moved only to a minimum degree according to DIN ($\pm 1^\circ$).

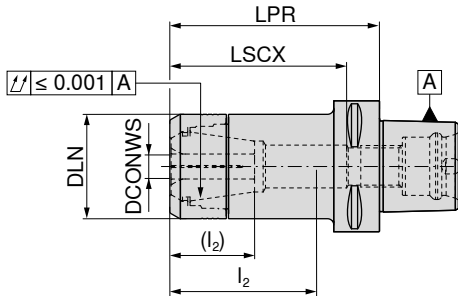


ER precision collet chuck – Centro-P

- ▲ for standard or sealed nuts
- ▲ maximum size collet to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without nut, without backstop**



G 2,5 n_{max} 25000

84 112 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | LSCX mm | l_2 (l_2) mm | for collet | £ Y8 | |
|---------------|--------------|-----------|-----------|------------|-----------------------|-------------|---------|-----|
| PSC 40 | 1 - 10 | 55 | 30 | 47 | 29 - 38 | 426E (ER16) | 517.13 | 402 |
| PSC 50 | 1 - 10 | 60 | 30 | 47 | 29 - 38 | 426E (ER16) | 517.13 | 501 |
| PSC 50 | 1 - 10 | 100 | 30 | 87 | 29 - 51 (29 - 37) | 426E (ER16) | 553.39 | 502 |
| PSC 50 | 1 - 16 | 60 | 40 | 48 | | 430E (ER25) | 517.13 | 505 |
| PSC 50 | 2 - 20 | 60 | 50 | 49 | | 470E (ER32) | 517.13 | 507 |
| PSC 63 | 1 - 10 | 60 | 30 | 44 | | 426E (ER16) | 495.33 | 601 |
| PSC 63 | 1 - 10 | 100 | 30 | 83 | 29 - 53 (25 - 39) | 426E (ER16) | 531.63 | 602 |
| PSC 63 | 1 - 16 | 60 | 40 | 38 | | 430E (ER25) | 495.33 | 605 |
| PSC 63 | 1 - 16 | 100 | 40 | 78 | 36 - 62 (30 - 45) | 430E (ER25) | 531.63 | 606 |
| PSC 63 | 1 - 16 | 130 | 40 | 99 | 34 - 70 (30 - 50) | 430E (ER25) | 579.89 | 607 |
| PSC 63 | 1 - 16 | 160 | 40 | 118 | 34 - 70 (30 - 50) | 430E (ER25) | 676.58 | 608 |
| PSC 63 | 2 - 20 | 60 | 50 | 42 | | 470E (ER32) | 495.33 | 609 |
| PSC 63 | 2 - 20 | 100 | 50 | 79 | 45 - 63 (25 - 45) | 470E (ER32) | 531.63 | 610 |
| PSC 63 | 2 - 20 | 130 | 50 | 99 | 45 - 63 (25 - 53) | 470E (ER32) | 579.89 | 611 |
| PSC 63 | 3 - 26 | 65 | 63 | 51 | | 472E (ER40) | 555.75 | 612 |

→ Transmittable torque moments, Page 306



LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer

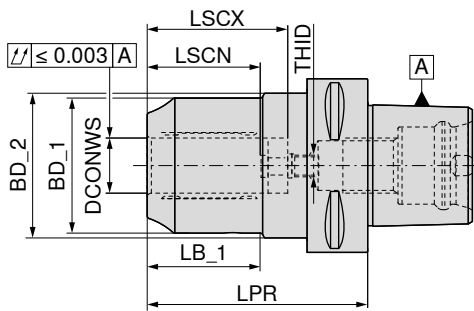
| Spare parts for collet | Lock nut IK | | Lock nut | | Stop screw 2 | | Stop screw 1 | |
|---------------------------|-------------|-----|----------|-----|--------------|-----|--------------|-----|
| | £ Y8 | | £ Y8 | | £ Y8 | | £ Y8 | |
| 426E (ER16) | 92.42 | 011 | 68.64 | 001 | 57.33 | 341 | 38.40 | 337 |
| 430E (ER25) | 103.01 | 013 | 76.26 | 003 | 40.33 | 432 | 28.76 | 431 |
| 470E (ER32) | 110.15 | 015 | 83.89 | 005 | 34.06 | 402 | 24.81 | 401 |
| 472E (ER40) | 150.65 | 017 | 122.04 | 007 | | | 34.77 | 400 |

High pressure chuck, short and stable version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

84 108 ...

£
Y8

869.79 62000

| Adapter | DCONWS | LPR | LB_1 | BD_1 | BD_2 | LSCX | LSCN | THID |
|---------|--------|-----|------|------|------|------|------|------|
| | mm | mm | mm | mm | mm | mm | mm | |
| PSC 63 | 20 | 80 | 41 | 49 | 52.5 | 51 | 41 | M8x1 |

→ Min. clamping depth, Page 306



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

83 950 ...

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

| | | | | | | | | | | | | |
|--------------|--------------|------|-----|-----|------|-----|----------|-------|-----|------------------|-------|-----|
| 84 108 62000 | M5x5 - SW2,5 | 3.67 | 157 | SW5 | 7.73 | 050 | M10x1x14 | 10.98 | 429 | M16x1x13,5 - SW8 | 27.66 | 424 |
|--------------|--------------|------|-----|-----|------|-----|----------|-------|-----|------------------|-------|-----|

Accessories

| | | |
|------------------|-----------------------|--------|
| | | |
| Reduction sleeve | Coolant transfer pipe | Others |
| → 276 | → 172 | → 278 |

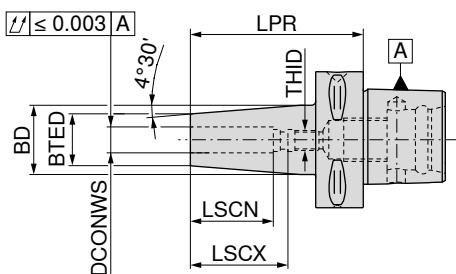
Shrink adapters

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without** IK back stop screw

TG



G 6,3 n_{max} 15000

84 104 ...

| Adapter | LPR mm | DCONWS mm | BTED mm | BD mm | LSCX mm | LSCN mm | THID | | |
|---------|-----------|--------------|------------|----------|------------|------------|-------|--------|-----|
| | | | | | | | | £ | |
| PSC 32 | 65 | 6 | 21 | 27 | 36 | 26 | M5 | 318.07 | 306 |
| PSC 32 | 65 | 8 | 21 | 27 | 36 | 26 | M6 | 318.07 | 308 |
| PSC 32 | 70 | 10 | 24 | 32 | 41 | 31 | M8x1 | 318.07 | 310 |
| PSC 32 | 75 | 12 | 24 | 32 | 47 | 37 | M10x1 | 318.07 | 312 |
| PSC 40 | 75 | 6 | 21 | 27 | 36 | 26 | M5 | 324.14 | 406 |
| PSC 40 | 75 | 8 | 21 | 27 | 36 | 26 | M6 | 324.14 | 408 |
| PSC 40 | 75 | 10 | 24 | 32 | 41 | 31 | M8x1 | 324.14 | 410 |
| PSC 40 | 75 | 12 | 24 | 32 | 47 | 37 | M10x1 | 324.14 | 412 |
| PSC 40 | 80 | 14 | 27 | 34 | 47 | 37 | M10x1 | 324.14 | 414 |
| PSC 40 | 80 | 16 | 27 | 34 | 50 | 40 | M12x1 | 324.14 | 416 |
| PSC 40 | 80 | 18 | 33 | 42 | 50 | 40 | M12x1 | 324.14 | 418 |
| PSC 40 | 85 | 20 | 33 | 42 | 52 | 42 | M16x1 | 324.14 | 420 |
| PSC 50 | 65 | 3 | 12 | 17 | | | | 401.75 | 503 |
| PSC 50 | 65 | 4 | 12 | 17 | | | | 401.75 | 504 |
| PSC 50 | 65 | 5 | 12 | 17 | | | | 401.75 | 505 |
| PSC 50 | 75 | 6 | 21 | 30 | 36 | 26 | M5 | 333.50 | 506 |
| PSC 50 | 75 | 8 | 21 | 30 | 36 | 26 | M6 | 333.50 | 508 |
| PSC 50 | 75 | 10 | 24 | 33 | 41 | 31 | M8x1 | 333.50 | 510 |
| PSC 50 | 75 | 12 | 24 | 33 | 47 | 37 | M10x1 | 333.50 | 512 |
| PSC 50 | 80 | 14 | 27 | 34 | 47 | 37 | M10x1 | 333.50 | 514 |
| PSC 50 | 80 | 16 | 27 | 34 | 50 | 40 | M12x1 | 333.50 | 516 |
| PSC 50 | 80 | 18 | 33 | 42 | 50 | 40 | M12x1 | 333.50 | 518 |
| PSC 50 | 85 | 20 | 33 | 42 | 52 | 42 | M16x1 | 333.50 | 520 |
| PSC 50 | 90 | 25 | 44 | 53 | 58 | 48 | M16x1 | 333.50 | 525 |
| PSC 63 | 80 | 3 | 12 | 17 | | | | 494.90 | 603 |
| PSC 63 | 80 | 4 | 12 | 17 | | | | 494.90 | 604 |
| PSC 63 | 80 | 5 | 12 | 17 | | | | 494.90 | 605 |
| PSC 63 | 80 | 6 | 21 | 27 | 36 | 26 | M5 | 417.31 | 606 |
| PSC 63 | 80 | 8 | 21 | 27 | 36 | 26 | M6 | 417.31 | 608 |
| PSC 63 | 80 | 10 | 24 | 32 | 41 | 31 | M8x1 | 417.31 | 610 |
| PSC 63 | 80 | 12 | 24 | 32 | 47 | 37 | M10x1 | 417.31 | 612 |
| PSC 63 | 85 | 14 | 27 | 34 | 47 | 37 | M10x1 | 417.31 | 614 |
| PSC 63 | 85 | 16 | 27 | 34 | 50 | 40 | M12x1 | 417.31 | 616 |
| PSC 63 | 85 | 18 | 33 | 42 | 50 | 40 | M12x1 | 417.31 | 618 |
| PSC 63 | 85 | 20 | 33 | 42 | 52 | 42 | M16x1 | 417.31 | 620 |
| PSC 63 | 90 | 25 | 44 | 53 | 58 | 48 | M16x1 | 417.31 | 625 |
| PSC 63 | 95 | 32 | 44 | 53 | 61 | 51 | M16x1 | 417.31 | 632 |
| PSC 80 | 85 | 6 | 21 | 27 | 36 | 26 | M5 | 448.41 | 806 |
| PSC 80 | 85 | 8 | 21 | 27 | 36 | 26 | M6 | 448.41 | 808 |
| PSC 80 | 85 | 10 | 24 | 32 | 41 | 31 | M8x1 | 448.41 | 810 |
| PSC 80 | 85 | 12 | 24 | 32 | 47 | 37 | M10x1 | 448.41 | 812 |
| PSC 80 | 90 | 14 | 27 | 34 | 47 | 37 | M10x1 | 448.41 | 814 |
| PSC 80 | 90 | 16 | 27 | 34 | 50 | 40 | M12x1 | 448.41 | 816 |
| PSC 80 | 90 | 18 | 33 | 42 | 50 | 40 | M12x1 | 448.41 | 818 |
| PSC 80 | 90 | 20 | 33 | 42 | 52 | 42 | M16x1 | 448.41 | 820 |
| PSC 80 | 95 | 25 | 44 | 53 | 58 | 48 | M16x1 | 448.41 | 825 |
| PSC 80 | 100 | 32 | 44 | 53 | 61 | 51 | M16x1 | 448.41 | 832 |

→ Min. clamping depth, Page 306

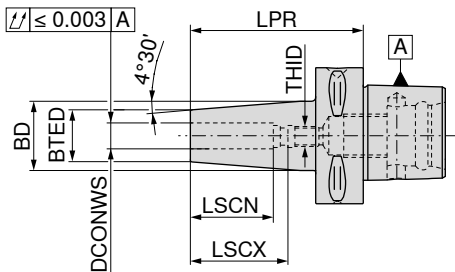
Shrink adapters

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip on request

Scope of supply:

Holder **without** IK back stop screw

TG



G 6,3 n_{max} 15000

G 6,3 n_{max} 15000

| | Adapter | LPR mm | DCONWS mm | BTED mm | BD mm | LSCX mm | LSCN mm | THID | 84 105 ... | | 84 106 ... | |
|---------------|---------|-----------|--------------|------------|----------|------------|------------|--------|------------|-----|------------|-----|
| | | | | | | | | | £ Y8 | | £ Y8 | |
| medium length | PSC 50 | 120 | 6 | 21 | 32 | 36 | 26 | M5 | 401.75 | 506 | | |
| | PSC 50 | 120 | 8 | 21 | 32 | 36 | 26 | M6 | 401.75 | 508 | | |
| | PSC 50 | 120 | 10 | 24 | 34 | 41 | 31 | M8x1 | 401.75 | 510 | | |
| | PSC 50 | 120 | 12 | 24 | 34 | 47 | 37 | M10x1 | 401.75 | 512 | | |
| | PSC 50 | 120 | 14 | 27 | 36 | 47 | 37 | M10x1 | 401.75 | 514 | | |
| | PSC 50 | 120 | 16 | 27 | 36 | 50 | 40 | M12x1 | 401.75 | 516 | | |
| | PSC 50 | 120 | 18 | 33 | 42 | 50 | 40 | M12x1 | 401.75 | 518 | | |
| | PSC 50 | 120 | 20 | 33 | 42 | 52 | 42 | M16x1 | 401.75 | 520 | | |
| | PSC 50 | 120 | 25 | 44 | 53 | 58 | 48 | M16x1 | 401.75 | 525 | | |
| | PSC 63 | 120 | 6 | 21 | 32 | 36 | 26 | M5 | 494.90 | 606 | | |
| | PSC 63 | 120 | 8 | 21 | 32 | 36 | 26 | M6 | 494.90 | 608 | | |
| | PSC 63 | 120 | 10 | 24 | 32 | 41 | 31 | M8x1 | 494.90 | 610 | | |
| | PSC 63 | 120 | 12 | 24 | 32 | 47 | 37 | M10x1 | 494.90 | 612 | | |
| | PSC 63 | 120 | 14 | 27 | 36 | 47 | 37 | M10x1 | 494.90 | 614 | | |
| PSC 63 | 120 | 16 | 27 | 36 | 50 | 40 | M12x1 | 494.90 | 616 | | | |
| PSC 63 | 120 | 18 | 33 | 44 | 50 | 40 | M12x1 | 494.90 | 618 | | | |
| PSC 63 | 120 | 20 | 33 | 44 | 52 | 42 | M16x1 | 494.90 | 620 | | | |
| PSC 63 | 120 | 25 | 44 | 53 | 58 | 48 | M16x1 | 494.90 | 625 | | | |
| PSC 63 | 120 | 32 | 44 | 53 | 61 | 51 | M16x1 | 494.90 | 632 | | | |
| | PSC 80 | 120 | 6 | 21 | 32 | 36 | 26 | M5 | 535.18 | 806 | | |
| | PSC 80 | 120 | 8 | 21 | 32 | 36 | 26 | M6 | 535.18 | 808 | | |
| | PSC 80 | 120 | 10 | 24 | 34 | 41 | 31 | M8x1 | 535.18 | 810 | | |
| | PSC 80 | 120 | 12 | 24 | 34 | 47 | 37 | M10x1 | 535.18 | 812 | | |
| | PSC 80 | 120 | 14 | 27 | 36 | 47 | 37 | M10x1 | 535.18 | 814 | | |
| | PSC 80 | 120 | 16 | 27 | 36 | 50 | 40 | M12x1 | 535.18 | 816 | | |
| | PSC 80 | 120 | 18 | 33 | 44 | 50 | 40 | M12x1 | 535.18 | 818 | | |
| | PSC 80 | 120 | 20 | 33 | 44 | 52 | 42 | M16x1 | 535.18 | 820 | | |
| | PSC 80 | 120 | 25 | 44 | 53 | 58 | 48 | M16x1 | 535.18 | 825 | | |
| | PSC 80 | 120 | 32 | 44 | 53 | 61 | 51 | M16x1 | 535.18 | 832 | | |
| extra-long | PSC 63 | 160 | 6 | 21 | 32 | 36 | 26 | M5 | | | 541.39 | 606 |
| | PSC 63 | 160 | 8 | 21 | 32 | 36 | 26 | M6 | | | 541.39 | 608 |
| | PSC 63 | 160 | 10 | 24 | 34 | 41 | 31 | M8x1 | | | 541.39 | 610 |
| | PSC 63 | 160 | 12 | 24 | 34 | 47 | 37 | M10x1 | | | 541.39 | 612 |
| | PSC 63 | 160 | 14 | 27 | 36 | 47 | 37 | M10x1 | | | 541.39 | 614 |
| | PSC 63 | 160 | 16 | 27 | 36 | 50 | 40 | M12x1 | | | 541.39 | 616 |
| | PSC 63 | 160 | 18 | 33 | 44 | 50 | 40 | M12x1 | | | 541.39 | 618 |
| | PSC 63 | 160 | 20 | 33 | 44 | 52 | 42 | M16x1 | | | 541.39 | 620 |
| | PSC 63 | 160 | 25 | 44 | 53 | 58 | 48 | M16x1 | | | 541.39 | 625 |
| | PSC 63 | 160 | 32 | 44 | 53 | 61 | 51 | M16x1 | | | 541.39 | 632 |

→ Min. clamping depth, Page 306

Spare parts heat shrink adapter



Backstop screw IK

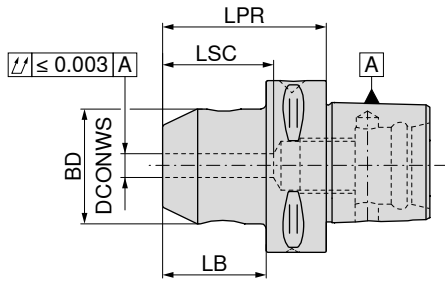
84 950 ...

Spare parts
DCONWS

| | £ | |
|---------|-------|-----|
| 6 | 16.15 | 140 |
| 8 | 16.15 | 141 |
| 10 | 16.15 | 142 |
| 12 - 14 | 16.15 | 143 |
| 16 - 18 | 16.15 | 144 |
| 20 - 32 | 16.15 | 145 |

Cylindrical shank adapter (Weldon)

- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**



G 6,3 n_{max} 15000

84 100 ...

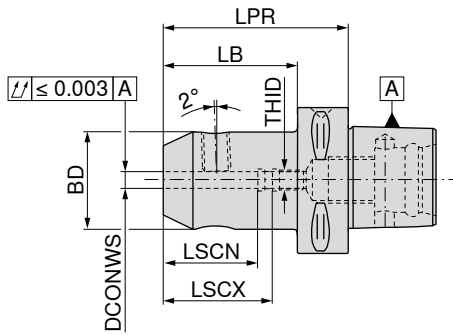
| Adapter | DCONWS mm | LPR mm | BD mm | LB mm | LSC mm | £ Y8 | |
|---------|--------------|-----------|----------|----------|-----------|---------|-------------------|
| PSC 32 | 6 | 45 | 25 | 30 | 35 | 262.11 | 306 |
| PSC 32 | 8 | 45 | 28 | 30 | 35 | 262.11 | 308 |
| PSC 32 | 10 | 50 | 35 | 35 | 39 | 262.11 | 310 |
| PSC 32 | 12 | 55 | 42 | 40 | 44 | 262.11 | 312 |
| PSC 40 | 6 | 50 | 25 | 30 | 35 | 287.00 | 406 |
| PSC 40 | 8 | 50 | 28 | 30 | 35 | 287.00 | 408 |
| PSC 40 | 10 | 50 | 35 | 30 | 39 | 287.00 | 410 |
| PSC 40 | 12 | 55 | 42 | 35 | 44 | 287.00 | 412 |
| PSC 40 | 14 | 55 | 44 | 35 | 44 | 287.00 | 414 |
| PSC 40 | 16 | 55 | 48 | 35 | 47 | 287.00 | 416 |
| PSC 50 | 6 | 50 | 25 | 30 | 35 | 293.21 | 506 |
| PSC 50 | 8 | 50 | 28 | 30 | 35 | 293.21 | 508 |
| PSC 50 | 10 | 55 | 35 | 35 | 39 | 293.21 | 510 |
| PSC 50 | 12 | 60 | 42 | 40 | 44 | 293.21 | 512 |
| PSC 50 | 14 | 60 | 44 | 40 | 44 | 293.21 | 514 |
| PSC 50 | 16 | 60 | 48 | 40 | 47 | 293.21 | 516 |
| PSC 50 | 18 | 60 | 50 | 40 | 47 | 293.21 | 518 |
| PSC 50 | 20 | 60 | 52 | 40 | 47 | 293.21 | 520 |
| PSC 50 | 25 | 80 | 65 | 60 | 54 | 293.21 | 525 ¹⁾ |
| PSC 63 | 6 | 55 | 25 | 33 | 35 | 324.14 | 606 |
| PSC 63 | 8 | 55 | 28 | 33 | 35 | 324.14 | 608 |
| PSC 63 | 10 | 60 | 35 | 38 | 39 | 324.14 | 610 |
| PSC 63 | 12 | 60 | 42 | 38 | 44 | 324.14 | 612 |
| PSC 63 | 14 | 60 | 44 | 38 | 44 | 324.14 | 614 |
| PSC 63 | 16 | 65 | 48 | 43 | 47 | 324.14 | 616 |
| PSC 63 | 18 | 65 | 50 | 43 | 47 | 324.14 | 618 |
| PSC 63 | 20 | 65 | 52 | 43 | 49 | 324.14 | 620 |
| PSC 63 | 25 | 80 | 65 | 58 | 54 | 324.14 | 625 ¹⁾ |
| PSC 63 | 32 | 90 | 72 | 68 | 58 | 324.14 | 632 ¹⁾ |
| PSC 63 | 40 | 100 | 80 | 78 | 75 | 324.14 | 640 ¹⁾ |
| PSC 80 | 6 | 70 | 25 | 40 | 35 | 355.26 | 806 |
| PSC 80 | 8 | 70 | 28 | 40 | 35 | 355.26 | 808 |
| PSC 80 | 10 | 70 | 35 | 40 | 39 | 355.26 | 810 |
| PSC 80 | 12 | 70 | 42 | 40 | 44 | 355.26 | 812 |
| PSC 80 | 14 | 70 | 44 | 40 | 44 | 355.26 | 814 |
| PSC 80 | 16 | 70 | 48 | 50 | 47 | 355.26 | 816 |
| PSC 80 | 18 | 70 | 50 | 40 | 47 | 355.26 | 818 |
| PSC 80 | 20 | 70 | 52 | 40 | 49 | 355.26 | 820 |
| PSC 80 | 25 | 80 | 65 | 50 | 54 | 355.26 | 825 ¹⁾ |
| PSC 80 | 32 | 80 | 72 | 50 | 58 | 355.26 | 832 ¹⁾ |
| PSC 80 | 40 | 110 | 80 | 80 | 75 | 355.26 | 840 ¹⁾ |
| PSC 80 | 50 | 120 | 100 | 90 | 83 | 355.26 | 850 ¹⁾ |

1) Version with two grub screws

Cylindrical Shank Adapter (Whistle Notch)

▲ For shanks according to DIN 6535 HE / 1835 E with angled clamping flat

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

84 102 ...

| Adapter | DCONWS | LPR | BD | LB | LSCX | LSCN | THID | £ | |
|---------|--------|-----|----|----|------|------|------|--------|-------------------|
| | mm | mm | mm | mm | mm | mm | | Y8 | |
| PSC 32 | 6 | 70 | 25 | 55 | 38 | 28 | M5 | 262.11 | 306 |
| PSC 32 | 8 | 70 | 28 | 55 | 38 | 28 | M6 | 262.11 | 308 |
| PSC 32 | 10 | 70 | 35 | 55 | 41 | 31 | M8 | 262.11 | 310 |
| PSC 32 | 12 | 75 | 42 | 60 | 47 | 37 | M10 | 262.11 | 312 |
| PSC 40 | 6 | 70 | 25 | 50 | 38 | 28 | M5 | 287.00 | 406 |
| PSC 40 | 8 | 70 | 28 | 50 | 38 | 28 | M6 | 287.00 | 408 |
| PSC 40 | 10 | 70 | 35 | 50 | 41 | 31 | M8 | 287.00 | 410 |
| PSC 40 | 12 | 75 | 42 | 55 | 47 | 37 | M10 | 287.00 | 412 |
| PSC 40 | 14 | 75 | 44 | 55 | 47 | 37 | M10 | 287.00 | 414 |
| PSC 50 | 6 | 70 | 25 | 50 | 38 | 28 | M5 | 293.21 | 506 |
| PSC 50 | 8 | 70 | 28 | 50 | 38 | 28 | M6 | 293.21 | 508 |
| PSC 50 | 10 | 70 | 35 | 50 | 41 | 31 | M8 | 293.21 | 510 |
| PSC 50 | 12 | 75 | 42 | 55 | 47 | 37 | M10 | 293.21 | 512 |
| PSC 50 | 14 | 75 | 44 | 55 | 47 | 37 | M10 | 293.21 | 514 |
| PSC 50 | 16 | 80 | 48 | 60 | 50 | 40 | M12 | 293.21 | 516 |
| PSC 50 | 18 | 80 | 50 | 60 | 50 | 40 | M12 | 293.21 | 518 |
| PSC 50 | 20 | 85 | 52 | 65 | 52 | 42 | M16 | 293.21 | 520 |
| PSC 63 | 6 | 75 | 25 | 53 | 38 | 28 | M5 | 324.14 | 606 |
| PSC 63 | 8 | 75 | 28 | 53 | 38 | 28 | M6 | 324.14 | 608 |
| PSC 63 | 10 | 75 | 35 | 53 | 41 | 31 | M8 | 324.14 | 610 |
| PSC 63 | 12 | 80 | 42 | 58 | 47 | 37 | M10 | 324.14 | 612 |
| PSC 63 | 14 | 80 | 44 | 58 | 47 | 37 | M10 | 324.14 | 614 |
| PSC 63 | 16 | 80 | 48 | 58 | 50 | 40 | M12 | 324.14 | 616 |
| PSC 63 | 18 | 80 | 50 | 58 | 50 | 40 | M12 | 324.14 | 618 |
| PSC 63 | 20 | 85 | 52 | 63 | 52 | 42 | M16 | 324.14 | 620 |
| PSC 63 | 25 | 90 | 65 | 68 | 58 | 48 | M16 | 324.14 | 625 ¹⁾ |
| PSC 63 | 32 | 95 | 72 | 73 | 61 | 51 | M16 | 324.14 | 632 ¹⁾ |
| PSC 80 | 6 | 65 | 25 | 35 | 38 | 28 | M5 | 355.26 | 806 |
| PSC 80 | 8 | 65 | 28 | 35 | 38 | 28 | M6 | 355.26 | 808 |
| PSC 80 | 10 | 65 | 35 | 35 | 41 | 31 | M8 | 355.26 | 810 |
| PSC 80 | 12 | 70 | 42 | 40 | 47 | 37 | M10 | 355.26 | 812 |
| PSC 80 | 14 | 70 | 44 | 40 | 47 | 37 | M10 | 355.26 | 814 |
| PSC 80 | 16 | 75 | 48 | 45 | 50 | 40 | M12 | 355.26 | 816 |
| PSC 80 | 18 | 75 | 50 | 45 | 50 | 40 | M12 | 355.26 | 818 |
| PSC 80 | 20 | 80 | 52 | 50 | 52 | 42 | M16 | 355.26 | 820 |
| PSC 80 | 25 | 90 | 65 | 60 | 58 | 48 | M16 | 355.26 | 825 ¹⁾ |
| PSC 80 | 32 | 95 | 72 | 65 | 61 | 51 | M16 | 355.26 | 832 ¹⁾ |

1) Version with two grubscrews



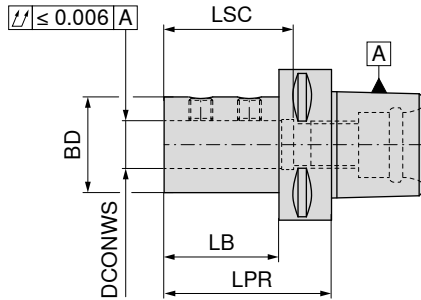
62 950 ...

84 950 ...

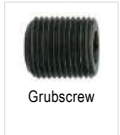
| Spare parts | DCONWS | £ | | £ | | |
|-------------|----------|------|-----|-----|-------|-----|
| | | W7 | | Y8 | | |
| 6 | M6x10 | 1.11 | 006 | M5 | 16.15 | 146 |
| 8 | M8x10 | 1.11 | 008 | M6 | 16.15 | 147 |
| 10 | M10x12 | 2.12 | 010 | M8 | 16.15 | 148 |
| 12 - 14 | M12x16 | 1.68 | 012 | M10 | 16.15 | 149 |
| 16 - 18 | M14x16 | 2.08 | 016 | M12 | 16.15 | 150 |
| 20 | M16x16 | 2.21 | 020 | M16 | 16.15 | 151 |
| 25 | M18x2x20 | 4.27 | 025 | M16 | 16.15 | 151 |
| 32 | M20x2x20 | 4.46 | 032 | M16 | 16.15 | 151 |

Indexable insert drill adapter ISO 26623-1 PSC

- ▲ Run-out ≤ 0.005 mm
- ▲ max. speed 5,000 rpm
- ▲ Also available with Balluff chip **on request**



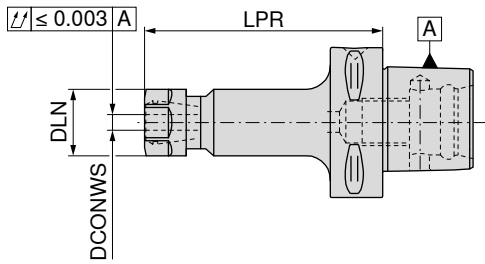
| Adapter | DCONWS mm | LPR mm | BD mm | LB mm | LSC mm | 84 128 ... | |
|---------|--------------|-----------|----------|----------|-----------|------------|-----|
| | | | | | | £ Y8 | |
| PSC 32 | 16 | 60 | 36 | 45 | 49 | 432.85 | 316 |
| PSC 32 | 20 | 60 | 40 | 45 | 54 | 432.85 | 320 |
| PSC 40 | 16 | 60 | 36 | 40 | 49 | 448.41 | 416 |
| PSC 40 | 20 | 60 | 40 | 40 | 54 | 448.41 | 420 |
| PSC 40 | 25 | 70 | 45 | 50 | 59 | 448.41 | 425 |
| PSC 50 | 16 | 65 | 36 | 45 | 49 | 479.35 | 516 |
| PSC 50 | 20 | 65 | 40 | 45 | 54 | 479.35 | 520 |
| PSC 50 | 25 | 70 | 45 | 50 | 59 | 479.35 | 525 |
| PSC 50 | 32 | 75 | 52 | 55 | 63 | 479.35 | 532 |
| PSC 63 | 16 | 70 | 36 | 48 | 49 | 479.35 | 616 |
| PSC 63 | 20 | 70 | 40 | 48 | 54 | 479.35 | 620 |
| PSC 63 | 25 | 75 | 45 | 53 | 59 | 479.35 | 625 |
| PSC 63 | 32 | 75 | 52 | 53 | 63 | 479.35 | 632 |
| PSC 63 | 40 | 85 | 65 | 63 | 73 | 479.35 | 640 |
| PSC 63 | 50 | 115 | 75 | 93 | 83 | 479.35 | 650 |
| PSC 80 | 16 | 80 | 36 | 50 | 49 | 572.51 | 816 |
| PSC 80 | 20 | 80 | 40 | 50 | 54 | 572.51 | 820 |
| PSC 80 | 25 | 85 | 45 | 55 | 59 | 572.51 | 825 |
| PSC 80 | 32 | 90 | 52 | 60 | 63 | 572.51 | 832 |
| PSC 80 | 40 | 95 | 65 | 65 | 73 | 572.51 | 840 |
| PSC 80 | 50 | 100 | 75 | 70 | 83 | 572.51 | 850 |



| Spare parts | | 83 950 ... | |
|-------------|----------|------------|-----|
| DCONWS | | £ Y8 | |
| 16 - 20 | M10x1x10 | 8.63 | 180 |
| 25 - 32 | M12x1x12 | 8.63 | 181 |
| 40 - 50 | M16x1x13 | 7.70 | 182 |

ER Collet chuck

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

| Adapter | DCONWS mm | LPR mm | DLN mm | TQX Nm | for collet | £ | |
|---------------|--------------|-----------|-----------|-----------|-------------|--------|-----|
| PSC 32 | 1 - 10 | 45 | 28 | 8 - 56 | 426E (ER16) | 231.16 | 304 |
| PSC 40 | 1 - 10 | 55 | 28 | 8 - 56 | 426E (ER16) | 246.72 | 404 |
| PSC 50 | 1 - 10 | 60 | 28 | 8 - 56 | 426E (ER16) | 262.11 | 504 |
| PSC 50 | 1 - 10 | 100 | 28 | 8 - 56 | 426E (ER16) | 308.77 | 506 |
| PSC 63 | 1 - 10 | 60 | 28 | 8 - 56 | 426E (ER16) | 262.11 | 604 |
| PSC 63 | 1 - 10 | 100 | 28 | 8 - 56 | 426E (ER16) | 308.77 | 606 |
| PSC 80 | 1 - 10 | 100 | 28 | 8 - 56 | 426E (ER16) | 339.70 | 806 |
| PSC 80 | 1 - 10 | 60 | 28 | 8 - 56 | 426E (ER16) | 293.21 | 804 |

84 114 ...

£

Y8



62 950 ...

£

W7

Spare parts for collet

426E (ER16)

M22x1,5 - SW25 32.23 044

Accessories

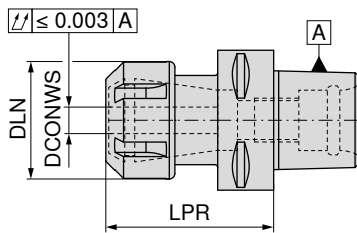


ER collet

→ 262-269, 273

ER Collet chuck

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

84 115 ...

| Adapter | DCONWS mm | LPR mm | DLN mm | TQX Nm | for collet | £ Y8 | |
|---------|--------------|-----------|-----------|-----------|-------------|---------|-------------------|
| PSC 32 | 1 - 13 | 45 | 34 | 16 - 80 | 428E (ER20) | 231.16 | 306 ¹⁾ |
| PSC 40 | 1 - 13 | 55 | 34 | 16 - 80 | 428E (ER20) | 246.72 | 404 ¹⁾ |
| PSC 40 | 1 - 16 | 55 | 42 | 24 - 104 | 430E (ER25) | 246.72 | 406 |
| PSC 40 | 2 - 20 | 55 | 50 | 24 - 136 | 470E (ER32) | 246.72 | 408 |
| PSC 50 | 1 - 13 | 60 | 34 | 16 - 80 | 428E (ER20) | 262.11 | 502 ¹⁾ |
| PSC 50 | 1 - 13 | 100 | 34 | 16 - 80 | 428E (ER20) | 324.14 | 504 ¹⁾ |
| PSC 50 | 1 - 16 | 60 | 42 | 24 - 104 | 430E (ER25) | 262.11 | 506 |
| PSC 50 | 1 - 16 | 100 | 42 | 24 - 104 | 430E (ER25) | 324.14 | 508 |
| PSC 50 | 2 - 20 | 60 | 50 | 24 - 136 | 470E (ER32) | 277.66 | 510 |
| PSC 50 | 2 - 20 | 100 | 50 | 24 - 136 | 470E (ER32) | 339.70 | 512 |
| PSC 50 | 3 - 26 | 65 | 63 | 176 | 472E (ER40) | 287.00 | 514 |
| PSC 50 | 3 - 26 | 100 | 63 | 176 | 472E (ER40) | 349.04 | 516 |
| PSC 63 | 1 - 13 | 60 | 34 | 16 - 80 | 428E (ER20) | 262.11 | 602 ¹⁾ |
| PSC 63 | 1 - 13 | 100 | 34 | 16 - 80 | 428E (ER20) | 324.14 | 604 ¹⁾ |
| PSC 63 | 1 - 16 | 60 | 42 | 24 - 104 | 430E (ER25) | 262.11 | 606 |
| PSC 63 | 1 - 16 | 100 | 42 | 24 - 104 | 430E (ER25) | 324.14 | 608 |
| PSC 63 | 2 - 20 | 60 | 50 | 24 - 136 | 470E (ER32) | 277.66 | 610 |
| PSC 63 | 2 - 20 | 100 | 50 | 24 - 136 | 470E (ER32) | 339.70 | 612 |
| PSC 63 | 3 - 26 | 65 | 63 | 176 | 472E (ER40) | 287.00 | 614 |
| PSC 63 | 3 - 26 | 100 | 63 | 176 | 472E (ER40) | 349.04 | 616 |
| PSC 80 | 1 - 13 | 65 | 34 | 16 - 80 | 428E (ER20) | 355.26 | 802 ¹⁾ |
| PSC 80 | 1 - 13 | 100 | 34 | 16 - 80 | 428E (ER20) | 463.78 | 804 ¹⁾ |
| PSC 80 | 1 - 16 | 70 | 42 | 24 - 104 | 430E (ER25) | 355.26 | 806 |
| PSC 80 | 1 - 16 | 100 | 42 | 24 - 104 | 430E (ER25) | 463.78 | 808 |
| PSC 80 | 2 - 20 | 70 | 50 | 24 - 136 | 470E (ER32) | 355.26 | 810 |
| PSC 80 | 2 - 20 | 100 | 50 | 24 - 136 | 470E (ER32) | 463.78 | 812 |
| PSC 80 | 3 - 26 | 80 | 63 | 176 | 472E (ER40) | 355.26 | 814 |
| PSC 80 | 3 - 26 | 100 | 63 | 176 | 472E (ER40) | 463.78 | 816 |

1) with 6 position lock nut

Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts

| Spare parts for collet | 62 950 ... | | 83 950 ... | | 62 950 ... | | 83 357 ... | | | | |
|------------------------|----------------|-------|------------|---------|------------|-----|------------|-------|-------|-------|-----|
| | £ W7 | | £ Y8 | | £ W7/6B | | £ Y8 | | | | |
| 428E (ER20) | M25x1,5 - SW30 | 25.99 | 045 | M25x1,5 | 94.26 | 053 | | 40.89 | 12000 | | |
| 430E (ER25) | | | | M32x1,5 | 96.66 | 055 | M32x1,5 | 26.70 | 055 | 28.20 | 125 |
| 470E (ER32) | | | | M40x1,5 | 103.38 | 056 | M40x1,5 | 27.37 | 056 | 41.07 | 132 |
| 472E (ER40) | | | | M50x1,5 | 124.40 | 057 | M50x1,5 | 28.36 | 057 | 46.52 | 140 |

Accessories

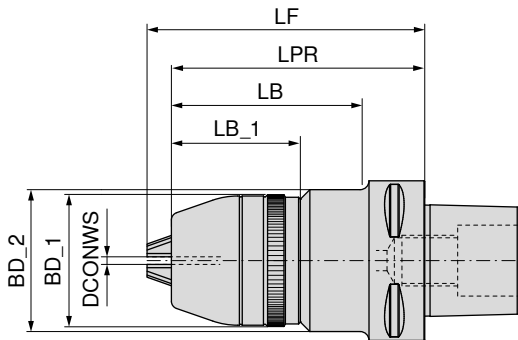


Short drill chuck – NC 2010

- ▲ Independent of direction of rotation
- ▲ Torque Moment = 12 Nm
- ▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder including clamping key SW4



G 2,5 n_{max} 12000

84 111 ...

£
Y8

| Adapter | DCONWS mm | BD_1 mm | BD_2 mm | LB_1 mm | LB mm | LPR mm | LF mm | | |
|---------|--------------|------------|------------|------------|----------|-----------|----------|--|----------------|
| PSC 40 | 0,5 - 13 | 48.5 | 56 | 50.90 | 78.0 | 100 | 109.0 | | 1,102.74 01395 |
| PSC 40 | 2,5 - 16 | 51.0 | 56 | 52.15 | 78.0 | 100 | 110.5 | | 1,131.70 01695 |
| PSC 50 | 0,5 - 13 | 48.5 | 56 | 50.90 | 77.0 | 100 | 109.0 | | 1,125.35 01394 |
| PSC 50 | 2,5 - 16 | 51.0 | 56 | 52.15 | 77.0 | 100 | 110.5 | | 1,154.81 01694 |
| PSC 63 | 0,5 - 13 | 48.5 | 56 | 50.90 | 74.5 | 100 | 109.0 | | 1,148.21 01393 |
| PSC 63 | 2,5 - 16 | 51.0 | 56 | 52.15 | 74.5 | 100 | 110.5 | | 1,178.43 01693 |

Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Accessories

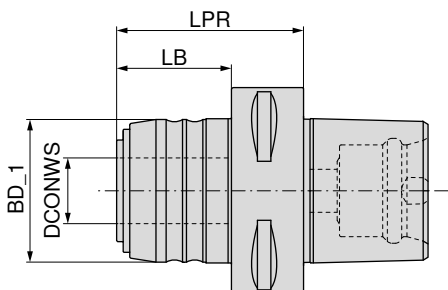


Others

→ 278

Synchronised quick change tap chuck with minimal length compensation

- ▲ For collets according to DIN 6499
- ▲ With length compensation under tension and under compression (LZD)
- ▲ $p_{max.} = 50$ bar
- ▲ also available with Balluff chip on request



84 140 ...

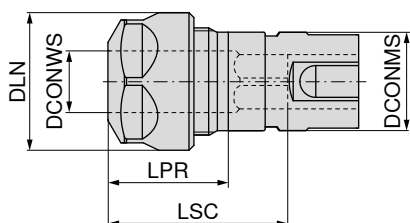
| Adapter | cutting range | SZID | LPR mm | BD_1 mm | DCONWS mm | LB mm | LZD± mm | £ Y8 | |
|---------|---------------|------|-----------|------------|--------------|----------|------------|----------|-----|
| PSC 63 | M3 - M12 | 1 | 57 | 43 | 20 | 35 | 1,0 / 0,2 | 1,059.53 | 612 |
| PSC 63 | M6 - M20 | 2 | 77 | 60 | 32 | 55 | 1,0 / 0,2 | 1,191.47 | 620 |

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

| SZID | DCONWS mm | cutting range | LPR mm | DLN mm | LSC mm | for collet | DCONMS mm | £ Y8 | |
|------|--------------|---------------|-----------|-----------|-----------|-------------|--------------|---------|-------------------|
| 1 | 2 - 10 | M3 - M12 | 24 | 28 | 42 | 426E (ER16) | 20 | 236.04 | 012 ¹⁾ |
| 2 | 2 - 16 | M6 - M20 | 28 | 42 | 59 | 430E (ER25) | 32 | 274.95 | 020 |

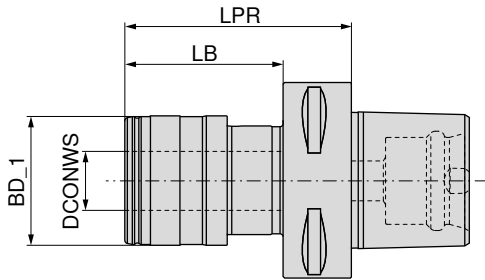
1) with 6 position lock nut

Spare parts insert for synchro quick change tapping chuck with minimum length compensation

| Spare parts for Article no. | Lock nut | | Lock nut IK | | Lock nut | | Y clamping key | | | | |
|-----------------------------|----------------|-------|-------------|---------|----------|-----|----------------|-------|-----|-------|-----|
| | £ | | £ | | £ | | £ | | | | |
| 83 608 012 | M22x1,5 - SW25 | 32.23 | 044 | M22x1,5 | 82.98 | 054 | M22x1,5 | 25.64 | 054 | 28.20 | 116 |
| 83 608 020 | | | | M32x1,5 | 96.66 | 055 | M32x1,5 | 26.70 | 055 | 28.20 | 125 |

Quick change tap chuck with length compensation

- ▲ With length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip **on request**



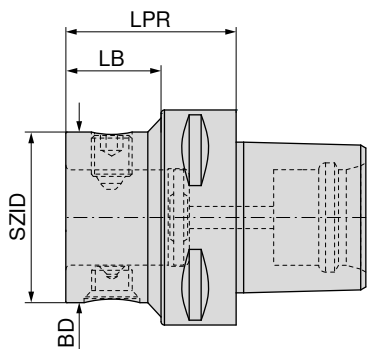
| Adapter | cutting range | SZID | LPR | BD_1 | DCONWS | LB | LZD± | 84 142 ... | |
|---------|---------------|------|-----|------|--------|----|------|------------|-----|
| | | | mm | mm | mm | mm | mm | £ | |
| PSC 63 | M3 - M12 | 01 | 73 | 41 | 19 | 51 | 7,5 | 1,099.53 | 612 |
| PSC 63 | M6 - M20 | 02 | 97 | 60 | 31 | 75 | 10 | 1,235.47 | 620 |

Accessories

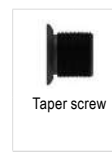


Adapter with ABS Connection

▲ also available with Balluff chip on request



| Adapter | KOMET no. | SZID | BD | LPR | LB | | 84 215 ... |
|---------|-----------|--------|----|-----|----|--|-------------------------|
| | | | mm | mm | mm | | £ |
| PSC 40 | A69 04050 | ABS 50 | 50 | 50 | 30 | | Y8/3K 1,735.85 04097 |
| PSC 50 | A69 05050 | ABS 50 | 50 | 50 | 30 | | 1,117.76 05097 |
| PSC 63 | A69 06050 | ABS 50 | 50 | 50 | 28 | | 1,161.35 06397 |
| PSC 63 | A69 06060 | ABS 63 | 63 | 60 | 36 | | 1,199.98 06396 |
| PSC 80 | A69 08050 | ABS 50 | 50 | 50 | 23 | | 1,645.70 08097 |
| PSC 80 | A69 08060 | ABS 63 | 63 | 60 | 30 | | 1,735.85 08096 |
| PSC 80 | A69 08070 | ABS 80 | 80 | 80 | 50 | | 1,836.13 08092 |



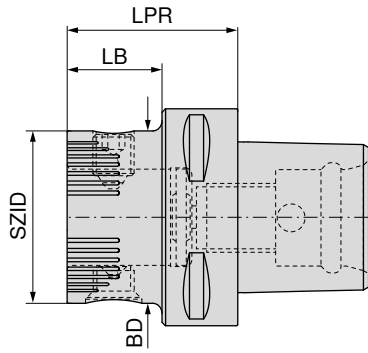
Spare parts

SZID

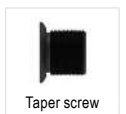
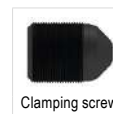
| | £ | 84 950 ... | £ | 84 950 ... |
|--------|-------|------------|-------|------------|
| | XX | | XX | |
| ABS 50 | 10.95 | 20300 | 13.91 | 20400 |
| ABS 63 | 10.42 | 25500 | 13.22 | 27300 |
| ABS 80 | 12.82 | 25600 | 15.60 | 25100 |

Torsional vibration damper with ABS connection

▲ also available with Balluff chip on request



| Adapter | KOMET no. | SZID | BD | LPR | LB | 84 206 ... | |
|---------|-----------|--------|----|-----|----|------------|-------|
| | | | mm | mm | mm | £ | |
| PSC 50 | A69 05060 | ABS 50 | 50 | 50 | 30 | 776.24 | 05094 |
| PSC 63 | A69 06070 | ABS 50 | 50 | 50 | 28 | 805.32 | 05093 |
| PSC 63 | A69 06080 | ABS 63 | 63 | 60 | 38 | 879.68 | 06393 |
| PSC 80 | A69 08090 | ABS 50 | 50 | 50 | 23 | 1,096.51 | 05086 |
| PSC 80 | A69 08100 | ABS 63 | 63 | 60 | 30 | 1,203.80 | 06386 |
| PSC 80 | A69 08110 | ABS 80 | 80 | 80 | 50 | 1,319.67 | 08086 |



Spare parts

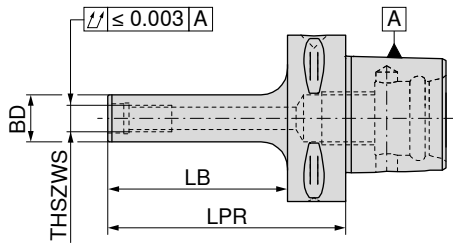
| SZID | 84 950 ... | | 84 950 ... | |
|--------|------------|-------|------------|-------|
| | £ | | £ | |
| ABS 50 | 10.95 | 20300 | 13.91 | 20400 |
| ABS 63 | 10.42 | 25500 | 13.22 | 27300 |
| ABS 80 | 12.82 | 25600 | 15.60 | 25100 |

Accessories



Adapter for screw-in milling cutter

▲ also available with Balluff chip on request



G 2,5 n_{max} 20000

| Adapter | THSZWS | LPR mm | BD mm | LB mm | £ | |
|---------|--------|-----------|----------|----------|--------|-----|
| PSC 32 | M8 | 60 | 13 | 45 | 355.26 | 302 |
| PSC 32 | M10 | 70 | 18 | 55 | 355.26 | 306 |
| PSC 40 | M8 | 70 | 13 | 50 | 364.59 | 402 |
| PSC 40 | M10 | 80 | 18 | 60 | 364.59 | 405 |
| PSC 40 | M12 | 80 | 21 | 60 | 364.59 | 408 |
| PSC 50 | M8 | 70 | 13 | 50 | 370.79 | 502 |
| PSC 50 | M10 | 80 | 18 | 60 | 370.79 | 505 |
| PSC 50 | M12 | 80 | 21 | 60 | 370.79 | 508 |
| PSC 50 | M16 | 80 | 29 | 60 | 370.79 | 512 |
| PSC 63 | M8 | 70 | 13 | 48 | 401.75 | 602 |
| PSC 63 | M10 | 90 | 18 | 68 | 401.75 | 605 |
| PSC 63 | M12 | 100 | 21 | 78 | 401.75 | 608 |
| PSC 63 | M16 | 100 | 29 | 78 | 401.75 | 612 |

84 110 ...

Accessories



Coolant transfer pipe

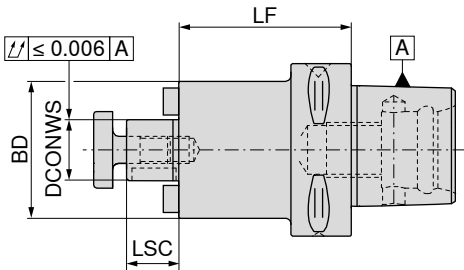
→ 172

Shell mill adapters

- ▲ for cutters with longitudinal or transverse groove
- ▲ also available with Balluff chip on request

Scope of supply:

Holder with clamping screw and drive key



G 6,3 n_{max} 15000

84 122 ...

| Adapter | DCONWS mm | LF mm | BD mm | LSC mm | £ Y8 | |
|---------|--------------|----------|----------|-----------|---------|-----|
| PSC 40 | 16 | 28 | 40 | 17 | 277.66 | 401 |
| PSC 40 | 16 | 63 | 40 | 17 | 293.21 | 402 |
| PSC 40 | 22 | 40 | 50 | 19 | 277.66 | 411 |
| PSC 40 | 22 | 63 | 50 | 19 | 293.21 | 412 |
| | | | | | | |
| PSC 50 | 16 | 28 | 40 | 17 | 277.66 | 501 |
| PSC 50 | 16 | 63 | 40 | 17 | 293.21 | 502 |
| PSC 50 | 22 | 28 | 50 | 19 | 277.66 | 511 |
| PSC 50 | 22 | 63 | 50 | 19 | 293.21 | 512 |
| PSC 50 | 27 | 32 | 50 | 21 | 277.66 | 521 |
| PSC 50 | 27 | 63 | 50 | 21 | 293.21 | 522 |
| PSC 50 | 32 | 40 | 63 | 24 | 277.66 | 531 |
| PSC 50 | 32 | 63 | 63 | 24 | 293.21 | 532 |
| | | | | | | |
| PSC 63 | 16 | 63 | 40 | 17 | 308.77 | 602 |
| PSC 63 | 22 | 28 | 63 | 19 | 293.21 | 611 |
| PSC 63 | 22 | 63 | 50 | 19 | 308.77 | 612 |
| PSC 63 | 27 | 28 | 58 | 21 | 293.21 | 621 |
| PSC 63 | 27 | 63 | 58 | 21 | 308.77 | 622 |
| PSC 63 | 32 | 22 | 63 | 24 | 293.21 | 631 |
| PSC 63 | 32 | 86 | 63 | 24 | 308.77 | 632 |
| PSC 63 | 40 | 40 | 70 | 27 | 339.70 | 641 |
| | | | | | | |
| PSC 80 | 16 | 63 | 40 | 17 | 364.59 | 802 |
| PSC 80 | 22 | 30 | 50 | 19 | 350.68 | 811 |
| PSC 80 | 22 | 63 | 50 | 19 | 364.59 | 812 |
| PSC 80 | 27 | 30 | 58 | 21 | 350.68 | 821 |
| PSC 80 | 27 | 63 | 58 | 21 | 364.59 | 822 |
| PSC 80 | 32 | 30 | 63 | 24 | 350.68 | 831 |
| PSC 80 | 32 | 86 | 63 | 24 | 364.59 | 832 |
| PSC 80 | 40 | 40 | 70 | 27 | 350.68 | 841 |

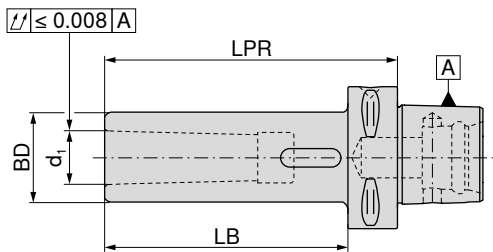
| drive key | | drive dog | | Cross nut key | | Cross screw | | clamping screw | | | | |
|------------|------|------------|-------|---------------|-------|-------------|-----|----------------|-------|---------------|-------|-----|
| 84 950 ... | | 84 950 ... | | 83 368 ... | | 83 367 ... | | 83 950 ... | | | | |
| £ | Y8 | £ | Y8 | £ | Y8 | £ | Y8 | £ | Y8/3B | | | |
| 16 | 6.07 | 108 | 13.77 | 113 | 25.47 | 116 | M8 | 6.77 | 016 | M8x25 | 7.18 | 113 |
| 22 | 6.07 | 109 | 16.15 | 114 | 31.70 | 122 | M10 | 7.53 | 022 | M10x25 | 8.10 | 124 |
| 27 | 6.07 | 110 | 17.47 | 115 | 37.27 | 127 | M12 | 9.63 | 027 | M12x30 | 8.95 | 125 |
| 32 | 6.07 | 111 | 19.83 | 116 | 50.79 | 132 | M16 | 15.12 | 032 | M16x35 | 10.90 | 126 |
| 40 | 6.07 | 112 | 22.06 | 117 | 50.45 | 140 | M20 | 16.18 | 040 | M20x40 - SW17 | 12.02 | 112 |

Spare parts

| DCONWS | £ | Y8 |
|--------|------|-----|
| 16 | 6.07 | 108 |
| 22 | 6.07 | 109 |
| 27 | 6.07 | 110 |
| 32 | 6.07 | 111 |
| 40 | 6.07 | 112 |

Taper sleeve DIN 6383 for DIN 228-2D Morse taper shanks

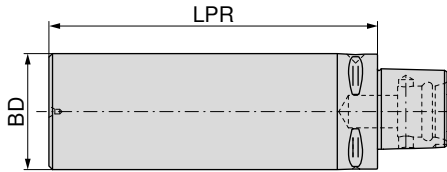
▲ also available with Balluff chip on request



| Adapter | d ₁ | LPR mm | BD mm | LB mm | 84 126 ... | |
|---------|----------------|-----------|----------|----------|------------|-----|
| | | | | | £ Y8 | |
| PSC 40 | MK2 | 110 | 32 | 90 | 293.21 | 402 |
| PSC 40 | MK3 | 130 | 40 | 119 | 308.77 | 403 |
| PSC 50 | MK2 | 110 | 32 | 90 | 308.77 | 502 |
| PSC 50 | MK3 | 130 | 40 | 110 | 324.14 | 503 |
| PSC 50 | MK4 | 150 | 48 | 132 | 339.70 | 504 |
| PSC 63 | MK2 | 110 | 32 | 88 | 308.77 | 602 |
| PSC 63 | MK3 | 130 | 40 | 108 | 324.14 | 603 |
| PSC 63 | MK4 | 150 | 48 | 128 | 339.70 | 604 |
| PSC 80 | MK2 | 120 | 32 | 90 | 355.26 | 802 |
| PSC 80 | MK3 | 140 | 40 | 110 | 386.21 | 803 |
| PSC 80 | MK4 | 160 | 48 | 130 | 417.31 | 804 |

Blank

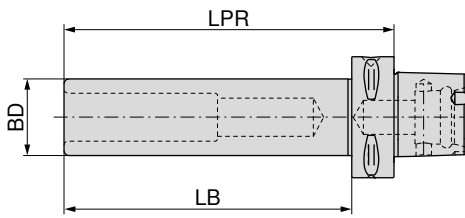
- ▲ Material: 25CrMoV4
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



| Adapter | BD mm | LPR mm | 84 134 ... | |
|---------|----------|-----------|------------|-----|
| | | | £ Y8 | |
| PSC 40 | 40 | 95 | 215.60 | 402 |
| PSC 40 | 40 | 120 | 231.16 | 403 |
| PSC 40 | 60 | 165 | 246.72 | 404 |
| PSC 40 | 80 | 75 | 277.66 | 405 |
| PSC 40 | 80 | 120 | 293.21 | 406 |
| PSC 40 | 100 | 85 | 308.77 | 408 |
| | | | | |
| PSC 50 | 50 | 125 | 246.72 | 502 |
| PSC 50 | 50 | 150 | 262.11 | 503 |
| PSC 50 | 75 | 175 | 293.21 | 504 |
| PSC 50 | 90 | 80 | 308.77 | 506 |
| PSC 50 | 95 | 150 | 324.14 | 508 |
| PSC 50 | 110 | 90 | 308.77 | 510 |
| | | | | |
| PSC 63 | 63 | 180 | 293.21 | 602 |
| PSC 63 | 75 | 195 | 308.77 | 604 |
| PSC 63 | 110 | 85 | 308.77 | 606 |
| PSC 63 | 120 | 180 | 463.78 | 608 |
| PSC 63 | 130 | 95 | 355.26 | 610 |
| | | | | |
| PSC 80 | 80 | 200 | 355.26 | 802 |
| PSC 80 | 120 | 160 | 355.26 | 804 |
| PSC 80 | 130 | 90 | 339.70 | 806 |
| PSC 80 | 145 | 200 | 386.21 | 808 |

Test bar

▲ also available with Balluff chip on request



| Adapter | LPR mm | BD mm | LB mm |
|---------|-----------|----------|----------|
| PSC 32 | 175 | 25 | 160 |
| PSC 40 | 180 | 25 | 160 |
| PSC 50 | 235 | 32 | 215 |
| PSC 63 | 322 | 40 | 300 |
| PSC 80 | 330 | 40 | 300 |

84 136 ...

| £ | |
|----------|-----|
| Y8 | |
| 1,044.88 | 030 |
| 1,158.90 | 040 |
| 1,238.00 | 050 |
| 1,303.14 | 060 |
| 1,563.77 | 080 |

Coolant pipe

Scope of supply:

complete, including seals



84 116 ...

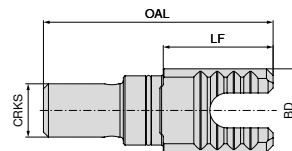
| Adapter | THOD | £ | |
|---------|-----------|-------|-------|
| | | Y8 | |
| PSC 40 | M14 x 1,5 | 54.86 | 04000 |
| PSC 50 | M16 x 1,5 | 57.67 | 05000 |
| PSC 63 | M20 x 2,0 | 60.51 | 06300 |
| PSC 80 | M20 x 2,0 | 75.40 | 08000 |

Pull stud for PSC adapter

▲ for front clamping

Scope of supply:

including O-Ring



NEW

83 235 ...

| Adapter | LF mm | OAL mm | BD mm | CRKS | £ | |
|---------|----------|-----------|----------|---------|--------|-------|
| | | | | | Y8 | |
| PSC 40 | 26.3 | 56 | 20 | M14x1,5 | 125.15 | 04000 |
| PSC 50 | 33.0 | 69 | 25 | M16x1,5 | 125.15 | 05000 |
| PSC 63 | 33.0 | 79 | 31 | M20x2 | 176.68 | 06300 |

Key



84 117 ...

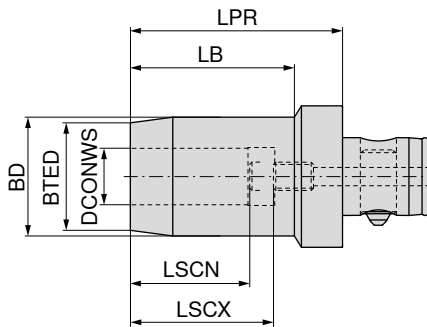
| Adapter | £ | |
|---------|-------|-------|
| | Y8 | |
| PSC 40 | 49.28 | 04000 |
| PSC 50 | 52.78 | 05000 |
| PSC 63 | 56.38 | 06300 |
| PSC 80 | 76.23 | 08000 |

Hydraulic chuck with ABS connection

▲ for solid carbide and HSS shanks to h6 tolerance or better

Scope of supply:

Base body including backstop screw



| Adapter | DCONWS | BTED | BD | LPR | LB | LSCX | LSCN | 84 253 ... |
|---------|--------|------|----|-----|------|------|------|----------------|
| | mm | mm | mm | mm | mm | mm | mm | £ |
| ABS 40 | 6 | 22 | 26 | 55 | 36.5 | 37 | 27 | Y8 |
| ABS 40 | 8 | 24 | 28 | 60 | 42.0 | 37 | 27 | 917.93 00688 |
| ABS 40 | 10 | 26 | 30 | 65 | 47.5 | 41 | 31 | 917.93 00888 |
| ABS 40 | 12 | 28 | 32 | 65 | 48.0 | 46 | 36 | 917.93 01088 |
| ABS 50 | 6 | 22 | 26 | 55 | 33.5 | 37 | 27 | 917.93 01288 |
| ABS 50 | 8 | 24 | 28 | 55 | 34.0 | 37 | 27 | 1,027.98 00697 |
| ABS 50 | 10 | 26 | 30 | 65 | 45.0 | 41 | 31 | 1,027.98 00897 |
| ABS 50 | 12 | 28 | 32 | 65 | 45.5 | 46 | 36 | 1,027.98 01097 |
| ABS 50 | 14 | 30 | 34 | 65 | 46.0 | 46 | 36 | 1,027.98 01297 |
| ABS 50 | 16 | 34 | 38 | 70 | 52.0 | 49 | 39 | 1,027.98 01497 |
| ABS 50 | 18 | 36 | 40 | 70 | 52.5 | 49 | 39 | 1,027.98 01697 |
| ABS 50 | 20 | 38 | 42 | 75 | 58.0 | 51 | 41 | 1,027.98 01897 |
| ABS 50 | 20 | 38 | 42 | 75 | 58.0 | 51 | 41 | 1,027.98 02097 |
| ABS 63 | 20 | 38 | 42 | 78 | 56.0 | 51 | 41 | 1,306.15 02096 |
| ABS 63 | 25 | 53 | 57 | 85 | 60.0 | 57 | 47 | 1,306.15 02596 |
| ABS 63 | 32 | 60 | 64 | 90 | 61.0 | 61 | 51 | 1,306.15 03296 |



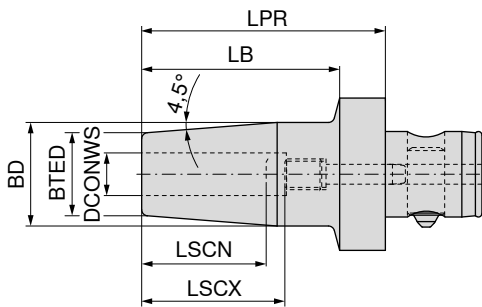
Spare parts

| DCONWS | | £ | |
|--------|------------------|-------|-----|
| | | Y7 | |
| 6 | M5x12,5 - SW2,5 | 23.98 | 418 |
| 8 | M6x12,5 - SW3 | 23.98 | 419 |
| 10 | M8x1x13,5 - SW3 | 23.98 | 420 |
| 12 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 14 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 16 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 18 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 20 | M16x1x13,5 - SW5 | 27.66 | 423 |
| 25 | M16x1x13,5 - SW5 | 27.66 | 423 |
| 32 | M16x1x13,5 - SW5 | 27.66 | 423 |

For an overview of the ABS spare parts, take a look at **page 307**.

Heat shrink adapter 4.5° with ABS connection

▲ for solid carbide and HSS shanks to h6 tolerance or better



G 6,3 n_{max} 15000

84 222 ...

| Adapter | KOMET no. | DCONWS mm | LPR mm | BD mm | BTED mm | LB mm | LSCX mm | LSCN mm | £ | |
|---------|-----------|--------------|-----------|----------|------------|----------|------------|------------|--------|-------|
| ABS 32 | A32 26040 | 6 | 70 | 27 | 21 | 56 | 36 | 26 | 516.07 | 00689 |
| ABS 32 | A32 26050 | 8 | 70 | 27 | 21 | 56 | 36 | 26 | 267.16 | 00889 |
| ABS 32 | A32 26061 | 10 | 70 | 32 | 24 | 56 | 42 | 32 | 371.97 | 01089 |
| ABS 32 | A32 26071 | 12 | 80 | 32 | 24 | 66 | 47 | 37 | 296.02 | 01289 |
| ABS 40 | A32 36050 | 8 | 70 | 27 | 21 | 56 | 36 | 26 | 382.49 | 00888 |
| ABS 40 | A32 36061 | 10 | 70 | 32 | 24 | 56 | 42 | 32 | 298.58 | 01088 |
| ABS 40 | A32 36071 | 12 | 80 | 32 | 24 | 66 | 47 | 37 | 377.24 | 01288 |
| ABS 40 | A32 36091 | 16 | 90 | 34 | 27 | 76 | 50 | 40 | 484.63 | 01688 |
| ABS 50 | A32 46040 | 6 | 75 | 27 | 21 | 56 | 36 | 26 | 288.18 | 00697 |
| ABS 50 | A32 46050 | 8 | 75 | 27 | 21 | 56 | 36 | 26 | 356.30 | 00897 |
| ABS 50 | A32 46061 | 10 | 80 | 32 | 24 | 61 | 42 | 32 | 351.05 | 01097 |
| ABS 50 | A32 46071 | 12 | 80 | 32 | 24 | 61 | 47 | 37 | 296.02 | 01297 |
| ABS 50 | A32 46081 | 14 | 80 | 34 | 27 | 61 | 47 | 37 | 356.30 | 01497 |
| ABS 50 | A32 46091 | 16 | 85 | 34 | 27 | 66 | 50 | 40 | 340.54 | 01697 |
| ABS 50 | A32 46101 | 18 | 85 | 42 | 33 | 66 | 50 | 40 | 290.75 | 01897 |
| ABS 50 | A32 46111 | 20 | 90 | 42 | 33 | 71 | 52 | 42 | 259.33 | 02097 |
| ABS 63 | A32 56111 | 20 | 90 | 42 | 33 | 71 | 52 | 42 | 327.45 | 02096 |
| ABS 63 | A32 56121 | 25 | 95 | 53 | 44 | 76 | 58 | 48 | 332.70 | 02596 |
| ABS 63 | A32 56131 | 32 | 95 | 53 | 44 | 76 | 58 | 48 | 440.11 | 03296 |



Backstop screw

84 950 ...

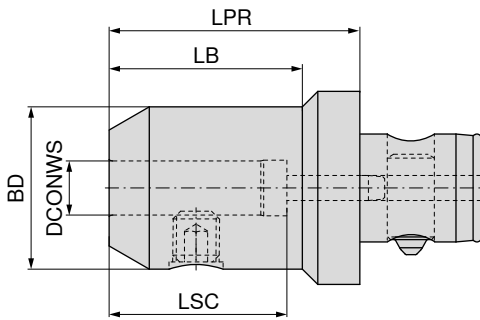
Spare parts

| DCONWS | | £ | |
|--------|----------|------|-------|
| 6 | M5x18 | 5.13 | 21400 |
| 8 | M6x20 | 5.13 | 21500 |
| 10 | M8x1x20 | 3.79 | 21600 |
| 12 | M10x1x20 | 4.77 | 21700 |
| 14 | M10x1x20 | 4.77 | 21700 |
| 16 | M12x1x20 | 6.59 | 21800 |
| 18 | M12x1x20 | 6.59 | 21800 |
| 20 | M8x1x20 | 8.54 | 21900 |
| 25 | M8x1x20 | 8.54 | 21900 |
| 32 | M8x1x20 | 8.54 | 21900 |

1 For an overview of the ABS spare parts, take a look at **page 307**.

Cylindrical shank adapter (Weldon) with ABS connection

▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat




| | | | | | | | 84 221 ... | |
|---------|-----------|--------|-----|------|----|-----|------------|---------------------|
| Adapter | KOMET no. | DCONWS | LPR | BD | LB | LSC | £ | |
| | | | | | | | 3E | |
| ABS 50 | A32 40010 | 6 | 45 | 25.0 | 27 | 40 | 191.20 | 00697 |
| ABS 50 | A32 40020 | 8 | 45 | 28.0 | 27 | 40 | 191.20 | 00897 |
| ABS 50 | A32 40030 | 10 | 55 | 35.0 | 37 | 44 | 191.20 | 01097 |
| ABS 50 | A32 40040 | 12 | 65 | 42.0 | 50 | 49 | 214.79 | 01297 |
| ABS 50 | A32 40080 | 14 | 65 | 44.0 | 50 | 49 | 206.96 | 01497 |
| ABS 50 | A32 40050 | 16 | 65 | 48.0 | 50 | 52 | 212.22 | 01697 |
| ABS 50 | A32 40090 | 18 | 65 | 49.9 | 50 | 52 | 238.40 | 01897 |
| ABS 50 | A32 40060 | 20 | 65 | 52.0 | 50 | 54 | 227.88 | 02097 |
| ABS 50 | A32 40070 | 25 | 75 | 65.0 | 60 | 60 | 217.48 | 02597 ¹⁾ |
| | | | | | | | | |
| ABS 63 | A32 50040 | 12 | 65 | 42.0 | 50 | 49 | 306.53 | 01296 |
| ABS 63 | A32 50100 | 14 | 65 | 44.0 | 50 | 49 | 327.45 | 01496 |
| ABS 63 | A32 50050 | 16 | 65 | 48.0 | 50 | 52 | 280.35 | 01696 |
| ABS 63 | A32 50110 | 18 | 65 | 50.0 | 50 | 52 | 288.18 | 01896 |
| ABS 63 | A32 50060 | 20 | 65 | 52.0 | 45 | 54 | 240.98 | 02096 |
| ABS 63 | A32 50070 | 25 | 75 | 65.0 | 60 | 60 | 238.40 | 02596 ¹⁾ |
| ABS 63 | A32 50080 | 32 | 80 | 72.0 | 65 | 64 | 243.66 | 03296 ¹⁾ |
| | | | | | | | | |
| ABS 80 | A32 60060 | 20 | 65 | 52.0 | 45 | 54 | 343.22 | 02092 |
| ABS 80 | A32 60070 | 25 | 75 | 65.0 | 55 | 60 | 332.70 | 02592 ¹⁾ |
| ABS 80 | A32 60080 | 32 | 80 | 72.0 | 66 | 64 | 248.92 | 03292 ¹⁾ |

1) Version with two grub screws

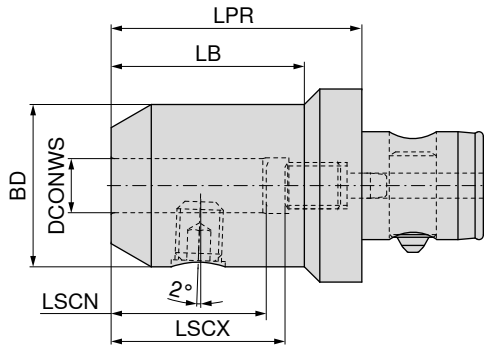


| | | | | 62 950 ... | |
|----|--|--|----------|------------|-----|
| | | | | £ | |
| | | | | W7 | |
| 6 | | | M6x10 | 1.11 | 006 |
| 8 | | | M8x10 | 1.11 | 008 |
| 10 | | | M10x12 | 2.12 | 010 |
| 12 | | | M12x16 | 1.68 | 012 |
| 14 | | | M12x16 | 1.68 | 012 |
| 16 | | | M14x16 | 2.08 | 016 |
| 18 | | | M14x16 | 2.08 | 016 |
| 20 | | | M16x16 | 2.21 | 020 |
| 25 | | | M18x2x20 | 4.27 | 025 |
| 32 | | | M20x2x20 | 4.46 | 032 |

 For an overview of the ABS spare parts, take a look at **page 307**.

Cylindrical shank adapter (Whistle Notch) with ABS connection

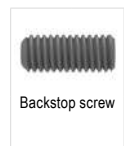
▲ For shanks according to DIN 6535 HE / 1835 E with angled clamping flat



| | | | | | | | | 84 220 ... | |
|---------|-----------|--------------|-----------|----------|----------|------------|------------|------------|---------------------|
| | | | | | | | | £ | |
| | | | | | | | | 3E | |
| Adapter | KOMET no. | DCONWS mm | LPR mm | LB mm | BD mm | LSCX mm | LSCN mm | | |
| ABS 25 | A30 10601 | 6 | 55 | 40 | 24.9 | 36 | 26 | 212.22 | 00690 |
| ABS 25 | A30 10801 | 8 | 55 | 40 | 28.0 | 36 | 26 | 225.31 | 00890 |
| ABS 25 | A30 11001 | 10 | 60 | 45 | 35.0 | 40 | 30 | 212.22 | 01090 |
| ABS 32 | A30 20601 | 6 | 55 | 40 | 25.0 | 36 | 26 | 217.48 | 00689 |
| ABS 32 | A30 20801 | 8 | 55 | 40 | 28.0 | 36 | 26 | 217.48 | 00889 |
| ABS 32 | A30 20901 | 9 | 55 | 40 | 28.0 | 36 | 26 | 235.72 | 00989 |
| ABS 32 | A30 21001 | 10 | 60 | 45 | 35.0 | 40 | 30 | 199.13 | 01089 |
| ABS 32 | A30 21201 | 12 | 65 | 50 | 42.0 | 45 | 35 | 220.05 | 01289 |
| ABS 32 | A30 21401 | 14 | 65 | | 42.0 | 45 | 35 | 298.58 | 01489 |
| ABS 40 | A30 30601 | 6 | 55 | 35 | 25.0 | 36 | 26 | 301.28 | 00688 |
| ABS 40 | A30 30801 | 8 | 55 | 35 | 28.0 | 36 | 26 | 248.92 | 00888 |
| ABS 40 | A30 31001 | 10 | 60 | 45 | 35.0 | 40 | 30 | 272.42 | 01088 |
| ABS 40 | A30 31201 | 12 | 65 | 50 | 42.0 | 45 | 35 | 227.88 | 01288 |
| ABS 40 | A30 31401 | 14 | 65 | 50 | 42.0 | 45 | 35 | 314.37 | 01488 |
| ABS 40 | A30 31601 | 16 | 70 | 55 | 48.0 | 48 | 38 | 293.44 | 01688 |
| ABS 40 | A30 31801 | 18 | 70 | 55 | 48.0 | 48 | 38 | 311.79 | 01888 |
| ABS 50 | A30 40601 | 6 | 55 | 30 | 25.0 | 36 | 26 | 217.48 | 00697 |
| ABS 50 | A30 40801 | 8 | 55 | 30 | 28.0 | 36 | 26 | 233.15 | 00897 |
| ABS 50 | A30 41001 | 10 | 60 | 40 | 35.0 | 40 | 30 | 214.79 | 01097 |
| ABS 50 | A30 41201 | 12 | 65 | 50 | 42.0 | 45 | 35 | 227.88 | 01297 |
| ABS 50 | A30 41301 | 13 | 65 | 50 | 42.0 | 45 | 35 | 374.65 | 01397 |
| ABS 50 | A30 41401 | 14 | 65 | 50 | 42.0 | 45 | 35 | 259.33 | 01497 |
| ABS 50 | A30 41601 | 16 | 70 | 55 | 48.0 | 48 | 38 | 240.98 | 01697 |
| ABS 50 | A30 41801 | 18 | 70 | 55 | 48.0 | 48 | 38 | 285.50 | 01897 |
| ABS 50 | A30 42002 | 20 | 75 | 60 | 52.0 | 50 | 40 | 269.83 | 02097 |
| ABS 50 | A30 42202 | 22 | 75 | 60 | 52.0 | 50 | 40 | 374.65 | 02297 |
| ABS 50 | A30 42502 | 25 | 75 | 60 | 52.0 | 50 | 40 | 259.33 | 02597 ¹⁾ |
| ABS 63 | A30 51001 | 10 | 60 | 35 | 35.0 | 40 | 30 | 319.63 | 01096 |
| ABS 63 | A30 51201 | 12 | 65 | 45 | 42.0 | 45 | 35 | 280.35 | 01296 |
| ABS 63 | A30 51401 | 14 | 65 | 45 | 42.0 | 45 | 35 | 330.03 | 01496 |
| ABS 63 | A30 51601 | 16 | 70 | 50 | 48.0 | 48 | 38 | 311.79 | 01696 |
| ABS 63 | A30 51801 | 18 | 70 | 50 | 48.0 | 48 | 38 | 337.98 | 01896 |
| ABS 63 | A30 52001 | 20 | 75 | 55 | 52.0 | 50 | 40 | 298.58 | 02096 |
| ABS 63 | A30 52501 | 25 | 80 | 65 | 65.0 | 56 | 46 | 259.33 | 02596 ¹⁾ |
| ABS 63 | A30 52801 | 28 | 80 | 65 | 65.0 | 56 | 46 | 833.00 | 02896 ¹⁾ |
| ABS 80 | A30 62501 | 25 | 80 | 60 | 65.0 | 56 | 46 | 290.75 | 02592 ¹⁾ |
| ABS 80 | A30 63201 | 32 | 90 | 70 | 72.0 | 60 | 50 | 356.30 | 03292 ¹⁾ |

1) Version with two grub screws

Spare parts cylindrical shank adapter (Whistle Notch) with ABS connection



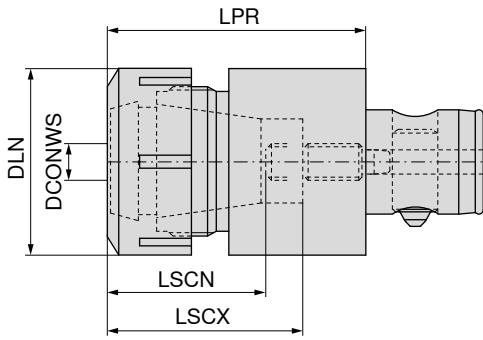
| Spare parts DCONWS | 62 950 ... | | | 84 950 ... | | |
|-----------------------|------------|---------|-----|-----------------|------------|-------|
| | | £ W7 | | | £ W7/6B | |
| 6 | M6x10 | 1.11 | 006 | M5x16 | 3.79 | 20500 |
| 8 | M8x10 | 1.11 | 008 | M6x16 - SW2,5 | 3.79 | 20600 |
| 9 | M8x10 | 1.11 | 008 | M8x1x16 - SW3 | 3.79 | 20800 |
| 10 | M10x12 | 2.12 | 010 | M8x1x16 - SW2,5 | 3.79 | 20700 |
| 12 | M12x16 | 1.68 | 012 | M10x1x18 - SW3 | 4.77 | 20900 |
| 13 | M12x16 | 1.68 | 012 | M12x1x17 - SW3 | 6.59 | 21000 |
| 14 | M12x16 | 1.68 | 012 | M12x1x17 - SW3 | 6.59 | 21000 |
| 16 | M14x16 | 2.08 | 016 | M14x1x19 - SW4 | 7.94 | 21100 |
| 18 | M14x16 | 2.08 | 016 | M14x1x19 - SW4 | 7.94 | 21100 |
| 20 | M16x16 | 2.21 | 020 | M16x1x21 - SW5 | 8.54 | 21200 |
| 22 | M16x16 | 2.21 | 020 | M16x1x21 - SW5 | 8.54 | 21200 |
| 25 | M16x16 | 2.21 | 020 | M16x1x21 - SW5 | 8.54 | 21200 |
| 28 | M18x2x20 | 4.27 | 025 | M16x1x21 - SW5 | 8.54 | 21200 |
| 32 | M20x2x20 | 4.46 | 032 | M20x1x27 - SW8 | 13.07 | 21300 |

 For an overview of the ABS spare parts, take a look at **page 307**.

ER collet chuck with ABS connection

Scope of supply:

Holder with lock nut and adjustable back stop



84 224 ...

| Adapter | KOMET no. | for collet | DCONWS mm | LPR mm | DLN mm | LSCX mm | LSCN mm | £ 3E | |
|---------|-----------|-------------|--------------|-----------|-----------|------------|------------|---------|---------------------|
| ABS 25 | A33 11120 | 426E (ER16) | 1 - 10 | 40.1 | 28 | 31 | 28 | 236.47 | 01690 ¹⁾ |
| ABS 32 | A33 12130 | 428E (ER20) | 1 - 13 | 52.5 | 34 | 39 | 35 | 259.75 | 02089 ¹⁾ |
| ABS 40 | A33 13141 | 430E (ER25) | 1 - 16 | 62.0 | 42 | 46 | 43 | 277.34 | 02588 |
| ABS 50 | A33 14151 | 470E (ER32) | 2 - 20 | 69.3 | 50 | 51 | 48 | 320.47 | 03297 |
| ABS 63 | A33 15161 | 472E (ER40) | 3 - 26 | 78.3 | 63 | 55 | 52 | 316.08 | 04096 |

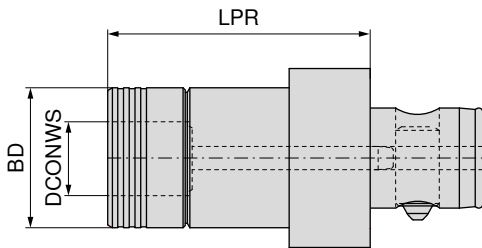
1) with 6 position lock nut

| Spare parts for collet | 62 950 ... | | 83 950 ... | | 62 950 ... | | 84 950 ... | |
|---------------------------|----------------|-----------|------------|------------|------------|-----------|----------------|------------|
| | £ W7 | | £ Y8 | | £ W7/6B | | £ W7/6B | |
| 426E (ER16) | M22x1,5 - SW25 | 32.23 044 | M22x1,5 | 82.98 054 | M22x1,5 | | M5x8 - SW2 | 3.79 22500 |
| 428E (ER20) | M25x1,5 - SW30 | 25.99 045 | M25x1,5 | 94.26 053 | M25x1,5 | | M6x12 - SW2,5 | 3.79 22000 |
| 430E (ER25) | | | M32x1,5 | 96.66 055 | M32x1,5 | 26.70 055 | M8x1x14 - SW4 | 4.15 22600 |
| 470E (ER32) | | | M40x1,5 | 103.38 056 | M40x1,5 | 27.37 056 | M10x1x14 - SW5 | 4.77 22700 |
| 472E (ER40) | | | M50x1,5 | 124.40 057 | M50x1,5 | 28.36 057 | M12x1x18 - SW8 | 6.59 22800 |

For an overview of the ABS spare parts, take a look at **page 307**.

Quick change tapping chuck with length compensation

▲ With length compensation under tension and compression (LZD)

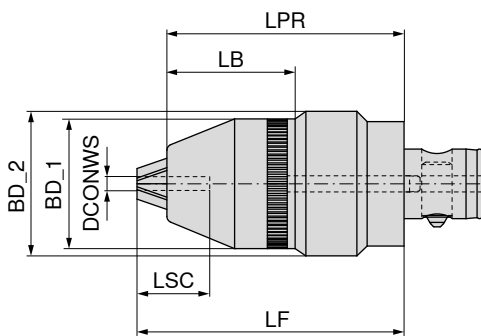


| Adapter | KOMET no. | DCONWS mm | BD mm | LPR mm | SZID | 84 225 ... |
|---------|-----------|--------------|----------|-----------|------|------------------------|
| ABS 32 | A34 32060 | 19 | 39 | 69 | 01 | £ 3E 1,095.44 01989 |
| ABS 40 | A34 33060 | 19 | 39 | 73 | 01 | 1,419.46 01988 |
| ABS 50 | A34 34060 | 19 | 39 | 72 | 01 | 1,344.36 01997 |
| ABS 50 | A34 34070 | 31 | 60 | 98 | 02 | 1,647.98 03197 |
| ABS 63 | A34 35070 | 31 | 60 | 111 | 02 | 1,663.00 03196 |

Short drill chuck

Scope of supply:

Toolholder including clamping key SW4



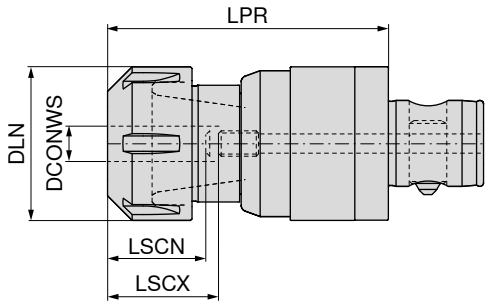
G 6,3 n_{max} 10000

| Adapter | DCONWS mm | BD_1 mm | BD_2 mm | LPR mm | LSC mm | LF mm | LB mm | 84 247 ... |
|---------|--------------|------------|------------|-----------|-----------|----------|----------|------------------------|
| ABS 50 | 0,5 - 13 | 49 | 57.5 | 95 | 29 | 104.0 | 51.5 | £ Y8 1,306.71 01397 |
| ABS 50 | 2,5 - 16 | 52 | 57.5 | 95 | 29 | 105.5 | 52.0 | 1,327.01 01697 |

Accessories

| | | |
|---|---|---|
|  |  |  |
| Collet | Pull studs | Others |
| → 282-286 | → 57 | → 278 |


Synchro tapping shuck with ABS connection



84 226 ...

| Adapter | KOMET no. | for collet | DCONWS mm | LPR mm | DLN mm | LSCX mm | LSCN mm | | |
|---------|----------------|------------|--------------|-----------|-----------|------------|------------|--|--|
| ABS 32 | 50795131002000 | ER 20 | 1 - 13 | 78.0 | 34 | 42 | 29 | | |
| ABS 50 | 50795135002000 | ER 20 | 1 - 13 | 85.0 | 34 | 42 | 29 | | |
| ABS 50 | 50795135003200 | ER 32 | 2 - 20 | 90.5 | 50 | 45 | 31 | | |

£
Y8/3K
1,539.98 02089
1,539.98 02097
1,689.28 03297

 For an overview of the ABS spare parts, take a look at **page 307**.

Accessories



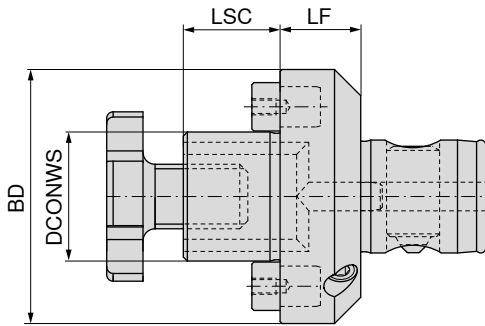
ER collet

→ 262-270, 272-273

Shell mill adapter with ABS connection

Scope of supply:

Base body including drive dogs and retaining screw



| Adapter | KOMET no. | DCONWS mm | LSC mm | LF mm | BD mm | 84 228 ... £ 3E | 84 228 ... £ 3E |
|---------|-----------|--------------|-----------|----------|----------|-----------------------|-----------------------|
| ABS 50 | A40 24023 | 16 | 17 | 20 | 50 | | 329.27 01697 |
| ABS 50 | A40 24034 | 22 | 19 | 20 | 50 | | 313.82 02297 |
| ABS 50 | A40 24043 | 27 | 21 | 20 | 50 | | 335.93 02797 |
| ABS 50 | A40 24053 | 32 | 24 | 20 | 63 | | 370.26 03297 |
| ABS 63 | A40 25032 | 22 | 19 | 22 | 63 | | 380.13 02296 |
| ABS 63 | A40 25042 | 27 | 21 | 22 | 63 | | 401.16 02796 |
| ABS 63 | A40 25052 | 32 | 24 | 22 | 63 | | 413.29 03296 |
| ABS 63 | A40 25062 | 40 | 27 | 22 | 80 | | 426.58 04096 |
| ABS 80 | A40 26042 | 27 | 21 | 25 | 80 | | 416.60 02792 |
| ABS 80 | A40 26052 | 32 | 24 | 25 | 80 | | 421.00 03292 |
| ABS 80 | A40 26062 | 40 | 27 | 25 | 80 | | 425.51 04092 |
| ABS 80 | A40 16062 | 40 | 30 | 43 | 88 | 554.80 14092 | |
| ABS 100 | A40 27052 | 32 | 24 | 25 | 100 | | 548.15 03291 |
| ABS 100 | A40 17062 | 40 | 30 | 38 | 88 | 471.85 14091 | |
| ABS 100 | A40 27062 | 40 | 27 | 25 | 100 | | 477.45 04091 |
| ABS 100 | A40 17072 | 60 | 40 | 56 | 130 | 602.33 06091 | |

Spare parts

| DCONWS | 84 950 ... £ W7/6B | 83 950 ... £ Y8/3B | 83 367 ... £ Y8 |
|--------|--------------------------|--------------------------|-----------------------|
| 16 | | | 6.77 016 |
| 22 | 41.69 22900 | | 7.53 022 |
| 27 | 44.01 23000 | | 9.63 027 |
| 32 | 41.69 23100 | | 15.12 032 |
| 40 | | | 16.18 040 |
| 40 | | 26.57 295 | |
| 60 | | 29.95 298 | |



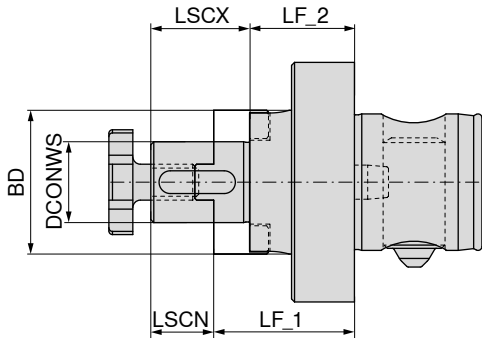
For an overview of the ABS spare parts, take a look at **page 307**.

Combination shell mill adapter with ABS connection

▲ For milling cutters with transverse or longitudinal groove according to DIN 6358

Scope of supply:

Base body including retaining screw, drive ring and drive key



| Adapter | KOMET no. | DCONWS mm | BD mm | LF_1 mm | LF_2 mm | LSCX mm | LSCN mm | 84 229 ... |
|---------|-----------|--------------|----------|------------|------------|------------|------------|----------------------|
| ABS 50 | A40 04022 | 16 | 32 | 32 | 22 | 27 | 17 | £ 3E 255.25 01697 |
| ABS 50 | A40 04032 | 22 | 40 | 34 | 22 | 31 | 19 | 246.45 02297 |
| ABS 63 | A40 05021 | 16 | 32 | 36 | 26 | 27 | 17 | 358.03 01696 |
| ABS 63 | A40 05031 | 22 | 40 | 38 | 26 | 31 | 19 | 402.23 02296 |
| ABS 63 | A40 05041 | 27 | 48 | 38 | 26 | 33 | 21 | 312.75 02796 |
| ABS 80 | A40 06031 | 22 | 40 | 45 | 33 | 31 | 19 | 470.79 02292 |
| ABS 80 | A40 06041 | 27 | 48 | 45 | 33 | 33 | 21 | 423.27 02792 |
| ABS 80 | A40 06051 | 32 | 58 | 47 | 33 | 38 | 24 | 353.64 03292 |
| ABS 80 | A40 06061 | 40 | 70 | 47 | 33 | 41 | 27 | 372.40 04092 |

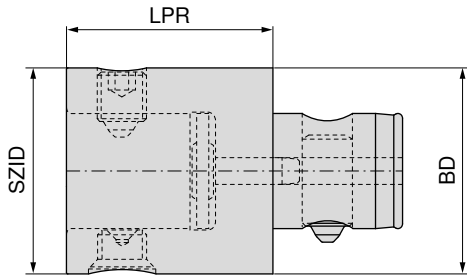


Spare parts

| DCONWS | Parallel key | 83 950 ... | Drive ring | 83 370 ... | Cross screw | 83 367 ... |
|--------|--------------|------------------|----------------|------------|---------------|------------|
| 16 | 4 x 4 x 20 | £ Y8/3B 4.17 284 | £ Y8 15.42 116 | M8 | £ Y8 6.77 016 | |
| 22 | 6 x 6 x 25 | 4.17 285 | 14.79 122 | M10 | 7.53 022 | |
| 27 | 7 x 7 x 25 | 6.62 286 | 18.45 127 | M12 | 9.63 027 | |
| 32 | 8 x 7 x 28 | 4.72 287 | 19.36 132 | M16 | 15.12 032 | |
| 40 | 10 x 8 x 32 | 5.57 288 | 32.61 140 | M20 | 16.18 040 | |

For an overview of the ABS spare parts, take a look at **page 307**.

Extension with ABS Connection



| | | | | | 84 209 ... | |
|---------|-----------|---------|-----|-----|------------|-------|
| Adapter | KOMET no. | SZID | BD | LPR | £ | |
| | | | mm | mm | 3E | |
| ABS 25 | A20 00220 | ABS 25 | 25 | 60 | 259.75 | 06090 |
| ABS 25 | A20 00020 | ABS 25 | 25 | 45 | 259.75 | 04590 |
| ABS 32 | A20 00230 | ABS 32 | 32 | 70 | 274.77 | 07089 |
| ABS 32 | A20 00030 | ABS 32 | 32 | 50 | 274.77 | 05089 |
| ABS 32 | A20 00530 | ABS 32 | 32 | 35 | 274.77 | 03589 |
| ABS 40 | A20 00040 | ABS 40 | 40 | 60 | 289.68 | 06088 |
| ABS 40 | A20 00240 | ABS 40 | 40 | 90 | 289.68 | 09088 |
| ABS 40 | A20 00540 | ABS 40 | 40 | 40 | 289.68 | 04088 |
| ABS 50 | A20 00250 | ABS 50 | 50 | 100 | 322.96 | 10097 |
| ABS 50 | A20 00050 | ABS 50 | 50 | 65 | 322.96 | 06597 |
| ABS 50 | A20 00150 | ABS 50 | 50 | 150 | 322.96 | 15097 |
| ABS 50 | A20 00550 | ABS 50 | 50 | 50 | 322.96 | 05097 |
| ABS 63 | A20 00160 | ABS 63 | 63 | 190 | 365.43 | 19096 |
| ABS 63 | A20 00060 | ABS 63 | 63 | 85 | 365.43 | 08596 |
| ABS 63 | A20 00260 | ABS 63 | 63 | 125 | 365.43 | 12596 |
| ABS 63 | A20 00560 | ABS 63 | 63 | 60 | 365.43 | 06096 |
| ABS 80 | A20 00170 | ABS 80 | 80 | 240 | 449.33 | 24092 |
| ABS 80 | A20 00070 | ABS 80 | 80 | 85 | 430.98 | 08592 |
| ABS 80 | A20 00270 | ABS 80 | 80 | 125 | 449.33 | 12592 |
| ABS 80 | A20 00570 | ABS 80 | 80 | 70 | 430.98 | 07092 |
| ABS 100 | A20 00280 | ABS 100 | 100 | 160 | 505.67 | 16091 |
| ABS 100 | A20 00080 | ABS 100 | 100 | 125 | 480.35 | 12591 |
| ABS 100 | A20 00580 | ABS 100 | 100 | 85 | 480.35 | 08591 |
| ABS 125 | A20 00290 | ABS 125 | 125 | 200 | 599.97 | 20085 |
| ABS 125 | A20 00090 | ABS 125 | 125 | 160 | 568.85 | 16085 |

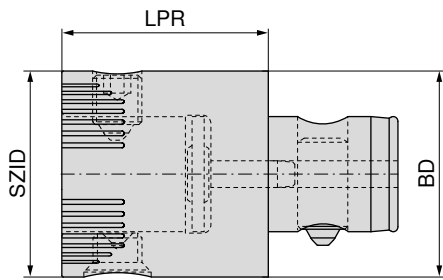
| Spare parts Adapter | Clamping screw | | Clamping screw | | Positioning pin | | Pendulum bolt | | Coolant pipe | | Taper screw | |
|------------------------|----------------|-------|----------------|-------|-----------------|-------|---------------|-------|--------------|-------|-------------|-------|
| | £ | | £ | | £ | | £ | | £ | | £ | |
| ABS 25 | XX | | 7.20 | 26800 | 0.42 | 23600 | 23.80 | 26000 | 7.28 | 24400 | 10.42 | 27000 |
| ABS 32 | 12.01 | 13989 | 8.20 | 23700 | 8.20 | 23800 | 17.70 | 26100 | 7.55 | 24500 | 10.42 | 27100 |
| ABS 40 | | | 8.16 | 26900 | 8.20 | 23800 | 24.85 | 26200 | 7.55 | 24600 | 10.84 | 27200 |
| ABS 50 | | | 10.95 | 20300 | 11.89 | 20200 | 32.51 | 20000 | 8.38 | 20100 | 13.91 | 20400 |
| ABS 63 | | | 10.42 | 25500 | 9.10 | 23900 | 28.97 | 26300 | 8.15 | 24700 | 13.22 | 27300 |
| ABS 80 | | | 12.82 | 25600 | 9.54 | 24000 | 31.22 | 26400 | 8.48 | 24800 | 15.60 | 25100 |
| ABS 100 | | | 15.79 | 25700 | 11.16 | 24100 | 35.88 | 26500 | 9.53 | 24900 | 17.32 | 25200 |
| ABS 125 | | | 26.98 | 25800 | 21.54 | 24200 | 54.91 | 26600 | 10.62 | 25000 | 28.02 | 25300 |

For an overview of the ABS spare parts, take a look at **page 307**.

Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc



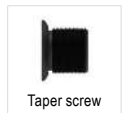
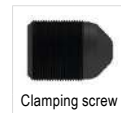
| Adapter | KOMET no. | SZID | BD | LPR | 84 216 ... | |
|---------|-----------|--------|----|-----|------------|-------|
| | | | mm | mm | £ | |
| ABS 50 | A20 00651 | ABS 50 | 50 | 50 | 633.98 | 05097 |
| ABS 63 | A20 00661 | ABS 63 | 63 | 60 | 793.73 | 06096 |
| ABS 80 | A20 00670 | ABS 80 | 80 | 70 | 793.73 | 07092 |


| 84 950 ... | | 84 950 ... | |
|------------|-------|------------|-------|
| £ | | £ | |
| XX | | XX | |
| 10.95 | 20300 | 13.91 | 20400 |
| 10.42 | 25500 | 13.22 | 27300 |
| 12.82 | 25600 | 15.60 | 25100 |

Spare parts

Adapter

ABS 50
ABS 63
ABS 80



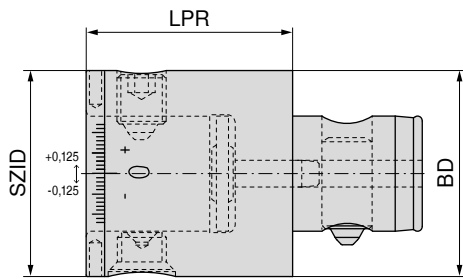
 For an overview of the ABS spare parts, take a look at **page 307**.

Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:

Eccentric adjuster with adjuster key Ø 2.8 mm



| Adapter | KOMET no. | SZID | BD | LPR | 84 217 ... | |
|---------|-----------|--------|----|-----|------------|-------|
| | | | mm | mm | £ | |
| ABS 50 | A20 00620 | ABS 50 | 50 | 50 | W4/6A | |
| ABS 63 | A20 00630 | ABS 63 | 63 | 60 | 682.78 | 05097 |
| | | | | | 737.95 | 06096 |

| Clamping screw | Taper screw |
|----------------|-------------|
| 84 950 ... | 84 950 ... |
| £ | £ |
| XX | XX |
| 10.95 20300 | 13.91 20400 |
| 10.42 25500 | 13.22 27300 |

Spare parts

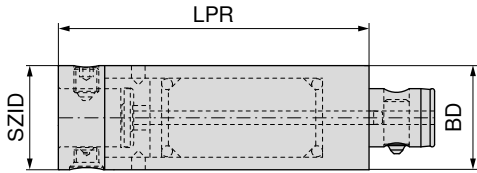
Adapter

ABS 50
ABS 63

For an overview of the ABS spare parts, take a look at **page 307**.

Damping element with ABS connection

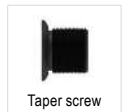
- ▲ The specially mounted damping core enables perfect machining results even with longer tool overhangs
- ▲ Reduction in machining times due to optimum machining parameters
- ▲ Damped machining and therefore perfect surface qualities
- ▲ Protection of the machine spindle and increased tool service life



| Adapter | KOMET no. | SZID | BD | LPR | RPMX | 84 218 ... | |
|---------|-----------|--------|----|-----|--------|------------|-------|
| | | | mm | mm | 1/min. | £ | |
| ABS 40 | A20 01240 | ABS 40 | 40 | 120 | 8000 | 3E | |
| | | | | | | 1,285.34 | 12088 |
| ABS 50 | A20 01250 | ABS 50 | 50 | 150 | 6300 | 1,493.49 | 15097 |
| ABS 63 | A20 01260 | ABS 63 | 63 | 190 | 5000 | 1,952.69 | 19096 |
| ABS 80 | A20 01270 | ABS 80 | 80 | 240 | 4000 | 2,719.81 | 24092 |

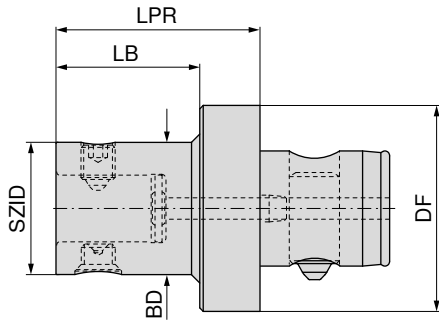
Spare parts

| Adapter | 84 950 ... | | 84 950 ... | |
|---------|------------|-------|------------|-------|
| | £ | | £ | |
| ABS 40 | XX | | XX | |
| | 8.16 | 26900 | 10.84 | 27200 |
| ABS 50 | 10.95 | 20300 | 13.91 | 20400 |
| ABS 63 | 10.42 | 25500 | 13.22 | 27300 |
| ABS 80 | 12.82 | 25600 | 15.60 | 25100 |



For an overview of the ABS spare parts, take a look at **page 307**.

Reduction with ABS connection



| Adapter | KOMET no. | SZID | BD | DF | LPR | LB | | 84 219 ... |
|---------|-----------|---------|-----|-----|-----|----|--|--------------------|
| | | | mm | mm | mm | mm | | £ |
| ABS 32 | A20 10120 | ABS 25 | 25 | 32 | 40 | 30 | | 3E 290.75 03290 |
| ABS 40 | A20 10220 | ABS 25 | 25 | 40 | 40 | 28 | | 306.85 04090 |
| ABS 40 | A20 10230 | ABS 32 | 32 | 40 | 40 | 28 | | 306.85 04089 |
| ABS 50 | A20 10320 | ABS 25 | 25 | 50 | 50 | 35 | | 333.35 05090 |
| ABS 50 | A20 10330 | ABS 32 | 32 | 50 | 50 | 35 | | 333.35 05089 |
| ABS 50 | A20 10340 | ABS 40 | 40 | 50 | 50 | 35 | | 333.35 05088 |
| ABS 63 | A20 10420 | ABS 25 | 25 | 63 | 60 | 40 | | 373.47 06390 |
| ABS 63 | A20 10430 | ABS 32 | 32 | 63 | 60 | 40 | | 373.47 06389 |
| ABS 63 | A20 10440 | ABS 40 | 40 | 63 | 60 | 40 | | 373.47 06388 |
| ABS 63 | A20 10450 | ABS 50 | 50 | 63 | 60 | 40 | | 373.47 06397 |
| ABS 80 | A20 10530 | ABS 32 | 32 | 80 | 60 | 35 | | 441.39 08089 |
| ABS 80 | A20 10540 | ABS 40 | 40 | 80 | 60 | 35 | | 441.39 08088 |
| ABS 80 | A20 10550 | ABS 50 | 50 | 80 | 60 | 35 | | 441.39 08097 |
| ABS 80 | A20 10560 | ABS 63 | 63 | 80 | 60 | 35 | | 441.39 08096 |
| ABS 100 | A20 10650 | ABS 50 | 50 | 100 | 80 | 50 | | 481.63 10097 |
| ABS 100 | A20 10660 | ABS 63 | 63 | 100 | 80 | 50 | | 481.63 10096 |
| ABS 100 | A20 10670 | ABS 80 | 80 | 100 | 80 | 50 | | 481.63 10092 |
| ABS 125 | A20 10780 | ABS 100 | 100 | 125 | 100 | 50 | | 532.15 12591 |
| ABS 125 | A20 10770 | ABS 80 | 80 | 125 | 100 | 50 | | 532.15 12592 |

Spare parts

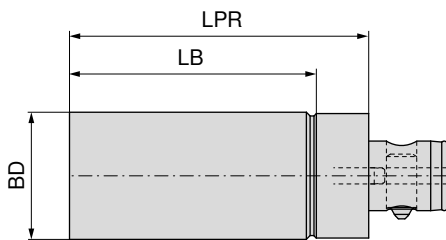
| SZID | 62 950 ... | 84 950 ... | 84 950 ... |
|---------|------------|------------|------------|
| | £ | £ | £ |
| ABS 25 | XX | XX | XX |
| ABS 32 | 12.01 | 7.20 | 10.42 |
| ABS 40 | | 8.16 | 10.84 |
| ABS 50 | | 10.95 | 13.91 |
| ABS 63 | | 10.42 | 13.22 |
| ABS 80 | | 12.82 | 15.60 |
| ABS 100 | | 15.79 | 17.32 |

| Clamping screw | Clamping screw | Taper screw |
|----------------|----------------|-------------|
| 62 950 ... | 84 950 ... | 84 950 ... |
| £ | £ | £ |
| XX | XX | XX |
| 12.01 | 7.20 | 10.42 |
| 13989 | 26800 | 27000 |
| | 8.16 | 10.84 |
| | 26900 | 27200 |
| | 10.95 | 13.91 |
| | 20300 | 20400 |
| | 10.42 | 13.22 |
| | 25500 | 27300 |
| | 12.82 | 15.60 |
| | 25600 | 25100 |
| | 15.79 | 17.32 |
| | 25700 | 25200 |

For an overview of the ABS spare parts, take a look at **page 307**.

Blank with ABS connection

- ▲ Connection area hardened and ground
- ▲ Dimension BD x dimension LB = unhardened area for further processing



| Adapter | KOMET no. | LPR mm | BD mm | LB mm |
|---------|-----------|-----------|----------|----------|
| ABS 25 | B10 01011 | 70 | 26 | 55 |
| ABS 32 | B10 02011 | 80 | 33 | 65 |
| ABS 40 | B10 03011 | 100 | 41 | 82 |
| ABS 50 | B10 04011 | 120 | 51 | 99 |
| ABS 63 | B10 05011 | 150 | 64 | 124 |
| ABS 80 | B10 06011 | 180 | 81 | 145 |
| ABS 100 | B10 07011 | 200 | 101 | 158 |

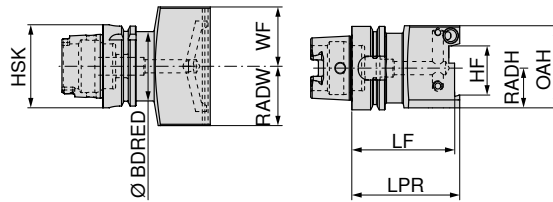
84 230 ...

| £ | |
|--------|-------|
| W4/6A | |
| 150.06 | 02690 |
| 158.17 | 03389 |
| 184.71 | 04188 |
| 180.09 | 05197 |
| 227.41 | 06496 |
| 352.10 | 08192 |
| 464.07 | 10191 |



For an overview of the ABS spare parts, take a look at **page 307**.

MonoClamp – HSK-T parting blade holder GX/LX/FX/SX with DirectCooling

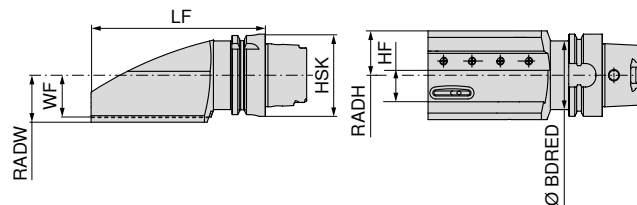


radial

74 586 ...

| ISO designation | Adapter | LF mm | BDRED mm | WF mm | HF mm | OAH mm | RADW mm | RADH mm | for parting blades | £ | |
|-----------------|----------|-------|----------|-------|-------|--------|---------|---------|--------------------|--------|-------|
| ISO 12164-3 T63 | HSK-T 63 | 80 | 52.6 | 45 | 26 | 62 | 45 | 30 | XLCF N 26... | 2D/80 | 02637 |
| ISO 12164-3 T63 | HSK-T 63 | 80 | 52.6 | 45 | 32 | 68 | 45 | 34 | XLCF N 32... | 449.58 | 03237 |

MonoClamp – HSK-T parting blade holder GX/LX/FX/SX with DirectCooling



Illustrations show right-hand versions



Left-hand

74 585 ...



Right-hand

74 584 ...

| ISO designation | Adapter | LF mm | BDRED mm | WF mm | HF mm | RADW mm | RADH mm | for parting blades | £ | |
|-----------------|----------|-------|----------|-------|-------|---------|---------|--------------------|--------|-------|
| ISO 12164-3 T63 | HSK-T 63 | 155 | 52.6 | 32 | 26 | 36.0 | 34 | XLCF R/L 26... | 2D/80 | 02637 |
| ISO 12164-3 T63 | HSK-T 63 | 155 | 52.6 | 32 | 32 | 37.5 | 35 | XLCF R/L 32... | 449.58 | 03237 |



O-Ring

70 950 ...



O-Ring

70 950 ...



Clamping wedge

70 950 ...



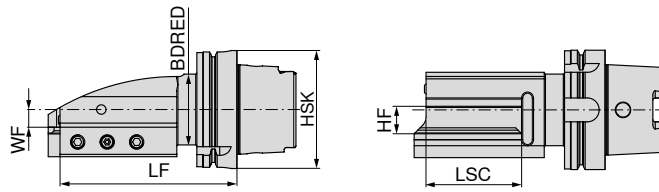
clamping screw

70 950 ...

| Spare parts for parting blades | | £ | | £ | | £ | | £ | | | |
|--------------------------------|--------|------|-----|--------|------|-----|-------|-----|-------|------|-----|
| XLCF R/L 26... | 19x2,5 | 4.97 | 293 | 23x2,5 | 4.97 | 292 | 71.66 | 860 | M6x12 | 2.57 | 861 |
| XLCF R/L 32... | 19x2,5 | 4.97 | 293 | 23x2,5 | 4.97 | 292 | 71.66 | 860 | M6x12 | 2.57 | 861 |

HSK-T square shank holder 0° with DirectCooling

- ▲ Suitable for stationary tool holder HF = 20 / 25 / 32 mm
- ▲ These HF values can be achieved by removing the mounting adapter and clamping block



Illustrations show right-hand versions

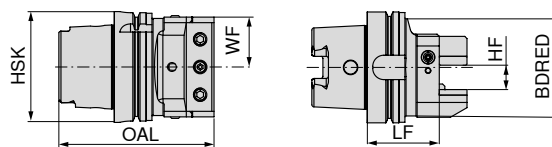


| NEW | | NEW | |
|-------------------|-------|-------------------|-------|
| Direct Cooling | | Direct Cooling | |
| Left-hand | | Right-hand | |
| 74 571 ... | | 74 570 ... | |
| £ | | £ | |
| 2D/80 | | 2D/80 | |
| 351.52 | 02537 | 351.52 | 02537 |
| 464.18 | 02535 | 464.18 | 02535 |

| ISO designation | Adapter | LF mm | BDRED mm | WF mm | LSC mm | HF mm |
|------------------|-----------|----------|-------------|----------|-----------|--------------|
| ISO 12164-3 T63 | HSK-T 63 | 145 | 52.6 | 15 | 80 | 20 / 25 / 32 |
| ISO 12164-3 T100 | HSK-T 100 | 150 | 60.0 | 15 | 80 | 20 / 25 / 32 |

HSK-T square shank holder 90° with DirectCooling

- ▲ Suitable for stationary tool holder HF = 20 / 25 / 32 mm
- ▲ These HF values can be achieved by removing the mounting adapter and clamping block



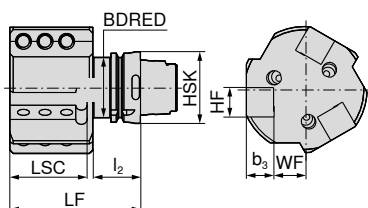
| NEW | |
|-------------------|-------|
| Direct Cooling | |
| Neutral | |
| 74 575 ... | |
| £ | |
| 2D/80 | |
| 351.52 | 02537 |
| 464.18 | 02535 |

| ISO designation | Adapter | LF mm | BDRED mm | WF mm | OAL mm | HF mm |
|------------------|-----------|----------|-------------|----------|-----------|--------------|
| ISO 12164-3 T63 | HSK-T 63 | 60 | 52.6 | 45 | 117 | 20 / 25 / 32 |
| ISO 12164-3 T100 | HSK-T 100 | 65 | 87.6 | 45 | 140 | 20 / 25 / 32 |

Spare parts HSK-T square shank holders with DirectCooling

| Spare parts Adapter | 83 950 ... | | 62 950 ... | |
|------------------------|--------------|----------|--------------|------------|
| | £ | Y7 | £ | W7/6B |
| HSK-T 63 | M5x5 - SW2,5 | 3.67 157 | M12x16 - SW6 | 1.22 51100 |
| HSK-T 100 | M5x5 - SW2,5 | 3.67 157 | M12x16 - SW6 | 1.22 51100 |

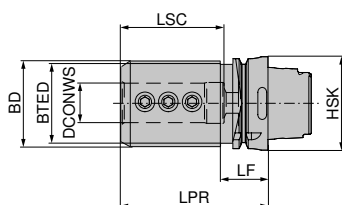
HSK-T square shank adapter 3-face 0°



| ISO designation | Adapter | LF mm | l ₂ mm | BDRED mm | WF mm | LSC mm | b ₃ mm | HF mm | 74 576 ... | |
|------------------------|-----------|-------|-------------------|----------|-------|--------|-------------------|-------|------------|-------|
| | | | | | | | | | £ | 2D/80 |
| HSK T63 SH3 L 00 2525 | HSK-T 63 | 115 | 42 | 53 | 28 | 68 | 25 | 25 | 934.95 | 525 |
| HSK T100 SH3 L 00 2525 | HSK-T 100 | 120 | 45 | 88 | 33 | 70 | 25 | 25 | 1,325.29 | 725 |

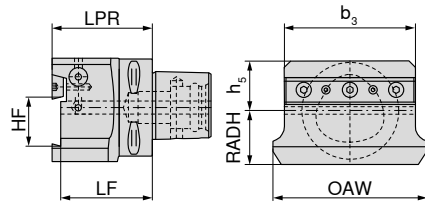
| Spare parts Adapter | 70 950 ... | | 70 950 ... | | 70 950 ... | | 70 950 ... | |
|------------------------|---------------|-------------|---------------|-------------|-------------|-------------|------------|-------|
| | £ | 2A/28 | £ | 2A/28 | £ | 2A/28 | £ | 2A/28 |
| HSK-T 63 | UNJF 7/16"-20 | 23.32 05600 | UNJF 7/16"-20 | 33.54 05500 | 51.85 05700 | M12x1,75x25 | 2.58 | 851 |
| HSK-T 100 | UNJF 7/16"-20 | 23.32 05600 | UNJF 7/16"-20 | 33.54 05500 | 51.85 05700 | M12x1,75x25 | 2.58 | 851 |

HSK-T Boring bar holder



| ISO designation | Adapter | LPR mm | DCONWS mm | BD mm | LSC mm | LF mm | BTED mm | 74 577 ... | |
|-------------------|-----------|--------|-----------|-------|--------|-------|---------|------------|-------|
| | | | | | | | | £ | 2D/80 |
| HSK T63 BH08 80 | HSK-T 63 | 80 | 8 | 32 | 41 | | | 398.33 | 508 |
| HSK T63 BH10 80 | HSK-T 63 | 80 | 10 | 40 | 41 | | | 398.33 | 510 |
| HSK T63 BH12 80 | HSK-T 63 | 80 | 12 | 40 | 41 | | | 398.33 | 512 |
| HSK T63 BH16 80 | HSK-T 63 | 80 | 16 | 40 | 51 | | | 398.33 | 516 |
| HSK T63 BH20 80 | HSK-T 63 | 80 | 20 | 50 | 51 | | | 398.33 | 520 |
| HSK T63 BH25 90 | HSK-T 63 | 90 | 25 | 53 | 61 | | | 398.33 | 525 |
| HSK T63 BH32 95 | HSK-T 63 | 95 | 32 | 68 | 61 | 42 | 53 | 398.33 | 532 |
| HSK T100 BH20 90 | HSK-T 100 | 90 | 20 | 55 | 56 | | | 507.59 | 720 |
| HSK T100 BH25 95 | HSK-T 100 | 95 | 25 | 55 | 61 | | | 507.59 | 725 |
| HSK T100 BH32 110 | HSK-T 100 | 110 | 32 | 68 | 61 | | | 507.59 | 732 |
| HSK T100 BH40 120 | HSK-T 100 | 120 | 40 | 83 | 81 | | | 507.59 | 740 |
| HSK T100 BH50 125 | HSK-T 100 | 125 | 50 | 98 | 91 | 45 | 88 | 507.59 | 750 |

Radial parting blade holder, right / left



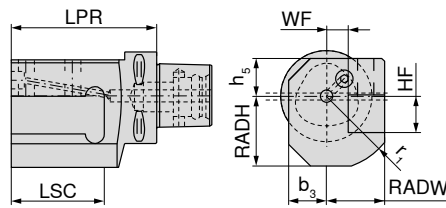
Neutral

84 132 ...

| Adapter | HF mm | LPR mm | OAW mm | b ₃ mm | h ₅ mm | RADH mm | LF mm |
|---------|----------|-----------|-----------|----------------------|----------------------|------------|----------|
| PSC 63 | 26 | 65 | 91 | 75 | 30 | 30 | 60 |
| PSC 63 | 32 | 65 | 100 | 85 | 32 | 35 | 60 |

| £ | Y8 | 626 |
|--------|----|-----|
| 494.90 | | |
| 494.90 | | 632 |

Square section adapter, single face



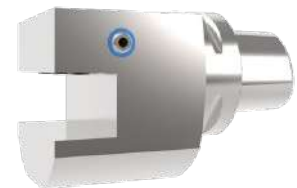
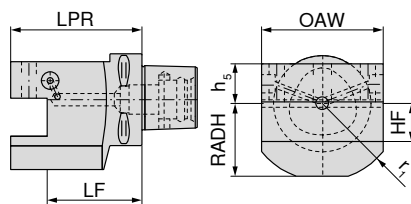
Illustrations show right-hand versions



| Adapter | HF mm | LPR mm | b ₃ mm | RADW mm | r ₁ mm | WF mm | h ₅ mm | RADH mm | LSC mm |
|---------|----------|-----------|----------------------|------------|----------------------|----------|----------------------|------------|-----------|
| PSC 50 | 20 | 80 | 26 | 35 | 45 | 15 | 26 | 43 | 53 |
| PSC 50 | 25 | 90 | 26 | 40 | 51 | 15 | 26 | 48 | 64 |
| PSC 50 | 32 | 115 | 26 | 47 | 61 | 15 | 26 | 55 | 90 |
| PSC 63 | 20 | 90 | 26 | 35 | 45 | 15 | 26 | 43 | 53 |
| PSC 63 | 25 | 100 | 26 | 40 | 51 | 15 | 26 | 48 | 64 |
| PSC 63 | 32 | 125 | 26 | 47 | 61 | 15 | 26 | 55 | 90 |
| PSC 80 | 20 | 90 | 26 | 35 | 45 | 15 | 26 | 43 | 53 |
| PSC 80 | 25 | 100 | 26 | 40 | 51 | 15 | 26 | 48 | 64 |
| PSC 80 | 32 | 125 | 26 | 47 | 61 | 15 | 26 | 55 | 90 |

| Left-hand | | Right-hand | |
|-------------------|-----|-------------------|-----|
| 84 611 ... | | 84 610 ... | |
| £ | Y8 | £ | Y8 |
| 401.75 | 520 | 401.75 | 520 |
| 401.75 | 525 | 401.75 | 525 |
| 401.75 | 532 | 401.75 | 532 |
| 463.78 | 620 | 463.78 | 620 |
| 463.78 | 625 | 463.78 | 625 |
| 463.78 | 632 | 463.78 | 632 |
| 556.96 | 820 | 556.96 | 820 |
| 556.96 | 825 | 556.96 | 825 |
| 556.96 | 832 | 556.96 | 832 |

Radial square section tool holders 90°



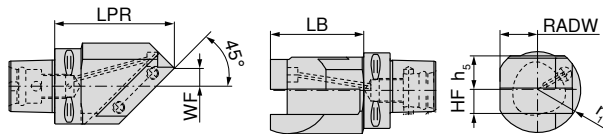
Neutral

84 602 ...

| Adapter | HF mm | LPR mm | OAW mm | r ₁ mm | RADH mm | h ₅ mm | LF mm |
|---------|----------|-----------|-----------|----------------------|------------|----------------------|----------|
| PSC 50 | 20 | 70 | 70 | 45 | 43 | 26 | 50 |
| PSC 50 | 25 | 80 | 80 | 51 | 48 | 26 | 55 |
| PSC 50 | 32 | 90 | 90 | 61 | 55 | 26 | 58 |
| PSC 63 | 20 | 80 | 70 | 45 | 43 | 26 | 60 |
| PSC 63 | 25 | 90 | 80 | 51 | 48 | 26 | 65 |
| PSC 63 | 32 | 100 | 90 | 61 | 55 | 26 | 68 |
| PSC 80 | 20 | 80 | 70 | 45 | 43 | 26 | 60 |
| PSC 80 | 25 | 90 | 80 | 51 | 48 | 26 | 65 |
| PSC 80 | 32 | 100 | 90 | 61 | 55 | 26 | 68 |

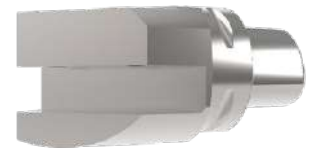
| £ | Y8 | 626 |
|--------|----|-----|
| 401.75 | | |
| 417.31 | | 525 |
| 448.41 | | 532 |
| 463.78 | | 620 |
| 494.90 | | 625 |
| 525.83 | | 632 |
| 494.90 | | 820 |
| 525.83 | | 825 |
| 556.96 | | 832 |

Square section adapter 45°



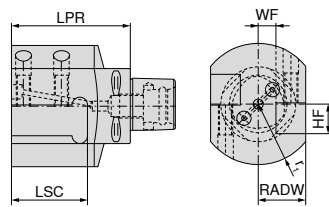
Illustrations show right-hand versions

| Adapter | HF mm | LPR mm | RADW mm | r ₁ mm | WF mm | h ₅ mm | LB mm |
|---------|----------|-----------|------------|----------------------|----------|----------------------|----------|
| PSC 50 | 20 | 100 | 31 | 36 | 15 | 26 | 80 |
| PSC 63 | 20 | 100 | 32 | 36 | 15 | 28 | 78 |
| PSC 80 | 32 | 135 | 45 | 70 | 17 | 40 | 105 |



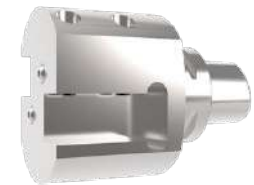
| Left-hand | | Right-hand | |
|------------|-----|------------|-----|
| 84 605 ... | | 84 604 ... | |
| £ | | £ | |
| Y8 | | Y8 | |
| 401.75 | 520 | 401.75 | 520 |
| 479.35 | 620 | 479.35 | 620 |
| 541.39 | 832 | 541.39 | 832 |

Square section adapter, double face



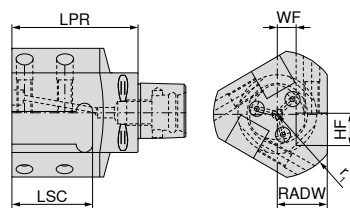
Illustrations show right-hand versions

| Adapter | HF mm | LPR mm | RADW mm | r ₁ mm | WF mm | LSC mm |
|---------|----------|-----------|------------|----------------------|----------|-----------|
| PSC 50 | 20 | 80 | 35 | 45 | 15 | 53 |
| PSC 50 | 25 | 90 | 40 | 51 | 15 | 64 |
| PSC 50 | 32 | 115 | 47 | 61 | 15 | 90 |
| PSC 63 | 20 | 90 | 35 | 45 | 15 | 53 |
| PSC 63 | 25 | 100 | 40 | 51 | 15 | 64 |
| PSC 63 | 32 | 125 | 47 | 61 | 15 | 90 |
| PSC 80 | 20 | 90 | 35 | 45 | 15 | 53 |
| PSC 80 | 25 | 100 | 40 | 51 | 15 | 64 |
| PSC 80 | 32 | 125 | 47 | 61 | 15 | 90 |



| Left-hand | | Right-hand | |
|------------|-----|------------|-----|
| 84 613 ... | | 84 612 ... | |
| £ | | £ | |
| Y8 | | Y8 | |
| 681.05 | 520 | 681.05 | 520 |
| 696.59 | 525 | 696.59 | 525 |
| 711.99 | 532 | 711.99 | 532 |
| 711.99 | 620 | 711.99 | 620 |
| 727.55 | 625 | 727.55 | 625 |
| 743.09 | 632 | 743.09 | 632 |
| 851.62 | 820 | 851.62 | 820 |
| 867.20 | 825 | 867.20 | 825 |
| 882.75 | 832 | 882.75 | 832 |

Square section adapter, triple face



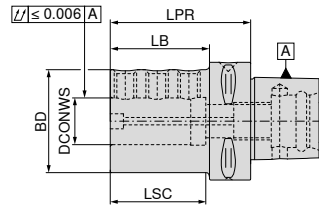
Illustrations show right-hand versions

| Adapter | HF mm | LPR mm | RADW mm | r ₁ mm | WF mm | LSC mm |
|---------|----------|-----------|------------|----------------------|----------|-----------|
| PSC 50 | 20 | 80 | 35 | 45 | 15 | 53 |
| PSC 50 | 25 | 90 | 40 | 51 | 15 | 64 |
| PSC 50 | 32 | 115 | 47 | 61 | 15 | 90 |
| PSC 63 | 20 | 90 | 35 | 45 | 15 | 53 |
| PSC 63 | 25 | 100 | 40 | 51 | 15 | 64 |
| PSC 63 | 32 | 125 | 47 | 61 | 15 | 90 |
| PSC 80 | 20 | 90 | 35 | 45 | 15 | 53 |
| PSC 80 | 25 | 100 | 40 | 51 | 15 | 64 |
| PSC 80 | 32 | 125 | 47 | 61 | 15 | 90 |

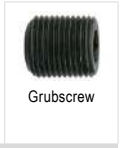


| Left-hand | | Right-hand | |
|------------|-----|------------|-----|
| 84 615 ... | | 84 614 ... | |
| £ | | £ | |
| Y8 | | Y8 | |
| 913.67 | 520 | 913.67 | 520 |
| 929.24 | 525 | 929.24 | 525 |
| 960.31 | 532 | 960.31 | 532 |
| 1,068.87 | 620 | 1,068.87 | 620 |
| 1,115.37 | 625 | 1,115.37 | 625 |
| 1,146.48 | 632 | 1,146.48 | 632 |
| 1,286.10 | 820 | 1,286.10 | 820 |
| 1,317.06 | 825 | 1,317.06 | 825 |
| 1,348.16 | 832 | 1,348.16 | 832 |

Boring bar holder



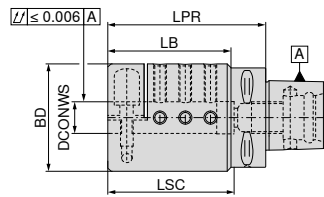
| Adapter | DCONWS mm | LPR mm | BD mm | LB mm | LSC mm | 84 130 ... | |
|---------|--------------|-----------|----------|----------|-----------|------------|-----|
| | | | | | | £ Y8 | |
| PSC 50 | 6 | 70 | 40 | 50 | 40 | 355.26 | 506 |
| PSC 50 | 8 | 70 | 44 | 50 | 40 | 355.26 | 508 |
| PSC 50 | 10 | 70 | 44 | 50 | 45 | 355.26 | 510 |
| PSC 50 | 12 | 70 | 44 | 50 | 45 | 355.26 | 512 |
| PSC 50 | 16 | 75 | 44 | 55 | 45 | 355.26 | 516 |
| PSC 50 | 20 | 75 | 50 | 75 | 51 | 355.26 | 520 |
| PSC 50 | 25 | 80 | 55 | 50 | 51 | 355.26 | 525 |
| PSC 50 | 32 | 90 | 72 | 70 | 60 | 355.26 | 532 |
| | | | | | | | |
| PSC 63 | 6 | 75 | 40 | 53 | 40 | 355.26 | 606 |
| PSC 63 | 8 | 75 | 44 | 53 | 40 | 355.26 | 608 |
| PSC 63 | 10 | 75 | 44 | 53 | 45 | 355.26 | 610 |
| PSC 63 | 12 | 75 | 44 | 53 | 45 | 355.26 | 612 |
| PSC 63 | 16 | 75 | 44 | 53 | 45 | 355.26 | 616 |
| PSC 63 | 20 | 75 | 50 | 53 | 51 | 355.26 | 620 |
| PSC 63 | 25 | 75 | 55 | 53 | 51 | 355.26 | 625 |
| PSC 63 | 32 | 75 | 72 | 52 | 60 | 355.26 | 632 |
| PSC 63 | 40 | 105 | 70 | 82 | 90 | 355.26 | 640 |



| Spare parts | | 84 950 ... | |
|-------------|--------|------------|-----|
| DCONWS | | £ Y8 | |
| 6 | M6x16 | 8.18 | 153 |
| 8 | M8x16 | 8.18 | 154 |
| 10 | M10x16 | 8.18 | 155 |
| 12 - 40 | M12x14 | 8.18 | 156 |

Boring bar adapter, split version

- ▲ vibration-damped
- ▲ ideally suited for large overhangs



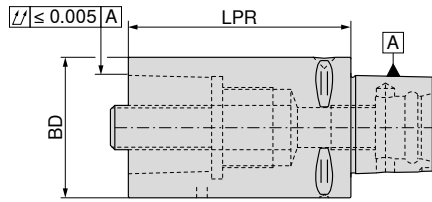
| Adapter | DCONWS mm | LPR mm | BD mm | LB mm | LSC mm | 84 131 ... £ Y8 |
|---------|--------------|-----------|----------|----------|-----------|-----------------------|
| PSC 63 | 6 | 80 | 40 | 58 | 60 | 432.85 606 |
| PSC 63 | 8 | 85 | 45 | 63 | 65 | 432.85 608 |
| PSC 63 | 10 | 85 | 50 | 63 | 65 | 432.85 610 |
| PSC 63 | 12 | 100 | 63 | 78 | 80 | 432.85 612 |
| PSC 63 | 16 | 100 | 63 | 78 | 80 | 432.85 616 |
| PSC 63 | 20 | 100 | 68 | 78 | 80 | 432.85 620 |
| PSC 63 | 25 | 100 | 68 | 78 | 80 | 432.85 625 |
| PSC 63 | 32 | 100 | 72 | 78 | 80 | 432.85 632 |

| Spare parts DCONWS | | 83 950 ... | | 84 950 ... | |
|-----------------------|--------|------------|-----|------------|----------|
| | | £ Y8 | | £ Y8 | |
| 8 | M6x20 | 4.16 | 462 | | |
| 10 | | | | M6x16 | 8.18 153 |
| 12 - 20 | M8x20 | 4.16 | 468 | | |
| 25 | M8x25 | 4.16 | 467 | | |
| 32 | M10x20 | 4.16 | 471 | | |



Extension, axial clamping

- ▲ Run-out ≤ 0.002 mm
- ▲ max. speed 8,000 rpm



| Adapter | BD mm | LPR mm | 84 620 ... | |
|---------|-------|--------|------------|-----|
| | | | £ | |
| PSC 32 | 32 | 60 | Y8 | |
| PSC 32 | 32 | 80 | 293.21 | 301 |
| | | | 293.21 | 302 |
| PSC 40 | 40 | 60 | 308.77 | 401 |
| PSC 40 | 40 | 80 | 308.77 | 402 |
| PSC 50 | 50 | 80 | 324.14 | 501 |
| PSC 50 | 50 | 100 | 324.14 | 502 |
| PSC 63 | 63 | 100 | 339.70 | 601 |
| PSC 63 | 63 | 140 | 339.70 | 602 |
| PSC 80 | 80 | 100 | 355.26 | 801 |
| PSC 80 | 80 | 125 | 355.26 | 802 |

Spare parts

Adapter

PSC 32
PSC 40
PSC 50
PSC 63
PSC 80

| 84 950 ... | | 84 950 ... | |
|------------|-----|------------|-----|
| £ | | £ | |
| Y8 | | Y8 | |
| 49.77 | 127 | 36.12 | 122 |
| 49.77 | 128 | 40.71 | 123 |
| 49.77 | 129 | 40.71 | 124 |
| 99.37 | 130 | 45.31 | 126 |
| 99.37 | 130 | 45.31 | 126 |



Accessories

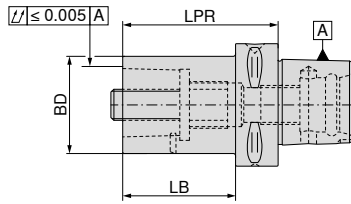


Hollow nose keys

→ 198

Cylindrical reduction

- ▲ Run-out ≤ 0.002 mm
- ▲ max. speed 8,000 rpm



| Adapter | BD mm | LPR mm | LB mm |
|---------|----------|-----------|----------|
| PSC 40 | 32 | 55 | 35 |
| PSC 50 | 32 | 60 | 40 |
| PSC 50 | 40 | 65 | 45 |
| PSC 63 | 32 | 70 | 48 |
| PSC 63 | 40 | 80 | 58 |
| PSC 63 | 50 | 80 | 58 |
| PSC 80 | 32 | 60 | 30 |
| PSC 80 | 40 | 70 | 40 |
| PSC 80 | 50 | 80 | 50 |
| PSC 80 | 63 | 80 | 50 |
| PSC 80X | 63 | 80 | 48 |
| PSC 80X | 80 | 100 | 68 |

84 624 ...

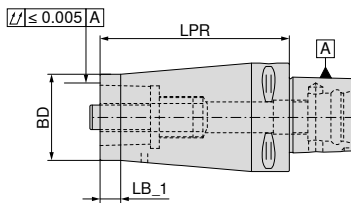
£
Y8

| | |
|--------|-------------------|
| 277.66 | 403 |
| 308.77 | 503 |
| 308.77 | 504 |
| 324.14 | 603 |
| 324.14 | 604 |
| 324.14 | 605 |
| 339.70 | 803 |
| 339.70 | 804 |
| 339.70 | 805 |
| 339.70 | 806 |
| 448.41 | 816 ¹⁾ |
| 448.41 | 818 ¹⁾ |

1) PSC 80X = variant with enlarged flange diameter of 100 mm / standard flange diameter PSC 80 = 80 mm

Tapered reduction

- ▲ Run-out ≤ 0.002 mm
- ▲ max. speed 8,000 rpm



| Adapter | BD mm | LPR mm | LB_1 mm |
|---------|----------|-----------|------------|
| PSC 40 | 32 | 70 | 12 |
| PSC 50 | 40 | 85 | 12 |
| PSC 63 | 50 | 110 | 12 |
| PSC 80 | 63 | 120 | 12 |
| PSC 80X | 80 | 150 | 12 |

84 625 ...

£
Y8

| | |
|--------|-------------------|
| 277.66 | 403 |
| 308.77 | 504 |
| 324.14 | 605 |
| 355.26 | 806 |
| 448.41 | 818 ¹⁾ |

1) PSC 80X = variant with enlarged flange diameter of 100 mm / standard flange diameter PSC 80 = 80 mm

Spare parts

Adapter

| | |
|---------|--|
| PSC 40 | |
| PSC 50 | |
| PSC 63 | |
| PSC 80 | |
| PSC 80X | |



84 950 ...

| £ | Y8 |
|-------|-----|
| 49.77 | 128 |
| 49.77 | 129 |
| 99.37 | 130 |
| 99.37 | 130 |
| 99.37 | 130 |

84 950 ...

| £ | Y8 |
|-------|-----|
| 40.71 | 123 |
| 40.71 | 124 |
| 45.31 | 126 |
| 45.31 | 126 |
| 45.31 | 126 |

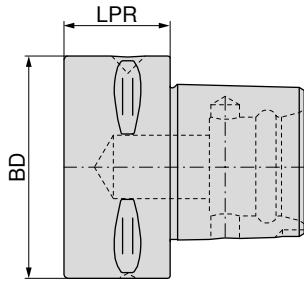
Accessories



Hollow nose keys

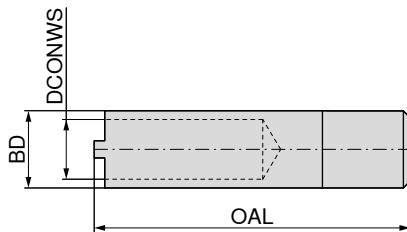
→ 198

Sealing plugs



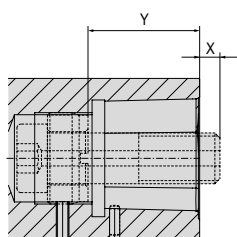
| Adapter | BD mm | LPR mm | 84 135 ... | |
|---------|-------|--------|------------|-----|
| | | | £ | |
| | | | Y8 | |
| PSC 40 | 40 | 28 | 155.19 | 040 |
| PSC 50 | 50 | 28 | 155.19 | 050 |
| PSC 63 | 63 | 30 | 183.05 | 060 |
| PSC 80 | 80 | 38 | 198.58 | 080 |

Hollow nose key for clamping screw for PSC extensions and reductions



| Adapter | BD mm | OAL mm | DCONWS mm | 84 651 ... | |
|---------------|-------|--------|-----------|------------|-----|
| | | | | £ | |
| | | | | Y8 | |
| PSC 32 | 16 | 80 | 12.5 | 80.81 | 032 |
| PSC 40 | 20 | 80 | 15.0 | 85.30 | 040 |
| PSC 50 | 22 | 90 | 17.0 | 85.30 | 050 |
| PSC 63/80/80X | 34 | 110 | 21.0 | 94.24 | 063 |

Installation instructions: clamping screw for PSC extensions and reductions



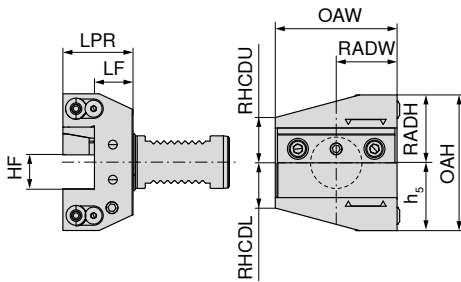
X = Screw leading edge
Y = Threaded ring insertion depth

Threaded ring secured with threaded pin DIN 914.
Drilled threaded ring !

| Adapter | X mm | Y mm |
|---------|------|------|
| PSC 32 | 5 | 24 |
| PSC 40 | 5 | 29 |
| PSC 50 | 6 | 36 |
| PSC 63 | 8 | 44 |
| PSC 80 | 0 | 53 |
| PSC 80X | 0 | 53 |

Radial square section tool holder with DirectCooling – B1 / B2 / B3 / B4

- ▲ Double tooth profile for normal and overhead applications
- ▲ The clamping rails can be attached at the top or bottom (left or right application).
- ▲ for turning tool holders with DirectCooling
- ▲ can be used up to 100 bar



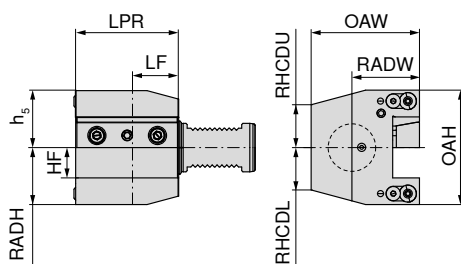
double

82 245 ...

| Adapter | HF _{0/-0.1} mm | LF _{0/+0.5} mm | LPR mm | OAW mm | RADH mm | RADW mm | h ₅ mm | OAH mm | RHCDL mm | RHCDU mm | £ | |
|---------|----------------------------|----------------------------|-----------|-----------|------------|------------|----------------------|-----------|-------------|-------------|--------|-------|
| VDI 20 | 16 | 16 | 30 | 55 | 30 | 30.0 | 30 | 60 | 22 | 22 | 398.38 | 01629 |
| VDI 20 | 16 | 26 | 40 | 55 | 30 | 30.0 | 30 | 60 | 22 | 22 | 398.38 | 51629 |
| VDI 25 | 16 | 16 | 30 | 55 | 30 | 30.0 | 30 | 60 | 22 | 22 | 398.38 | 01628 |
| VDI 30 | 20 | 22 | 40 | 70 | 39 | 35.0 | 39 | 78 | 26 | 26 | 398.38 | 02027 |
| VDI 40 | 25 | 22 | 44 | 85 | 47 | 42.5 | 47 | 94 | 33 | 33 | 469.97 | 02526 |
| VDI 50 | 25 | 22 | 44 | 98 | 55 | 50.0 | 55 | 110 | 42 | 42 | 585.59 | 02525 |

Axial square section tool holder with DirectCooling – C1 / C2 / C3 / C4

- ▲ Double tooth profile for normal and overhead applications
- ▲ The clamping rails can be attached at the top or bottom (left or right application).
- ▲ for turning tool holders with DirectCooling
- ▲ can be used up to 100 bar



double

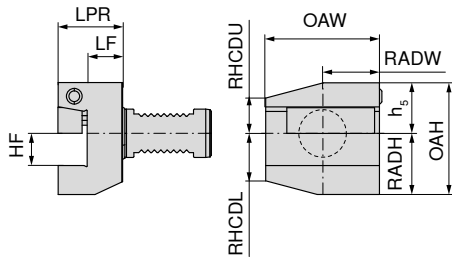
82 246 ...

| Adapter | HF _{0/-0.1} mm | LF mm | LPR mm | OAW mm | RADH mm | RADW mm | h ₅ mm | OAH mm | RHCDL mm | RHCDU mm | £ | |
|---------|----------------------------|----------|-----------|-----------|------------|------------|----------------------|-----------|-------------|-------------|--------|-------|
| VDI 30 | 20 | 30 | 70 | 74 | 39 | 39.0 | 39 | 78 | 26 | 26 | 458.24 | 02027 |
| VDI 40 | 25 | 30 | 85 | 94 | 47 | 52.5 | 47 | 94 | 35 | 35 | 545.91 | 02526 |
| VDI 50 | 25 | 30 | 85 | 105 | 50 | 63.0 | 50 | 100 | 42 | 42 | 697.22 | 02525 |

You can find spare parts on → Page 258+259

Radial square section tool holder with DirectCooling – B1 / B4

- ▲ Double tooth profile for normal and overhead applications
- ▲ for turning tool holders with DirectCooling
- ▲ can be used up to 100 bar



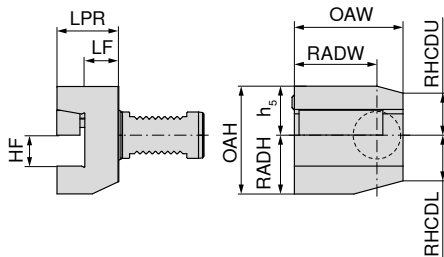
double

82 247 ...

| Adapter | HF _{0/-0.1} mm | LF _{0/+0.5} mm | LPR mm | OAW mm | RADH mm | RADW mm | h _s mm | OAH mm | RHCDL mm | RHCDU mm | | |
|---------|----------------------------|----------------------------|-----------|-----------|------------|------------|----------------------|-----------|-------------|-------------|--|-------------------------|
| VDI 30 | 20 | 22 | 40 | 70.0 | 38 | 35.0 | 31.5 | 69.5 | 29.5 | 22 | | £ Y8 306.70 02027 |
| VDI 40 | 25 | 22 | 44 | 85.0 | 48 | 42.5 | 38.0 | 86.0 | 35.0 | 30 | | 362.57 02526 |
| VDI 50 | 25 | 22 | 44 | 92.5 | 48 | 50.0 | 43.0 | 91.0 | 43.0 | 30 | | 450.14 02525 |

Radial square section tool holder with DirectCooling – B2 / B3

- ▲ Double tooth profile for normal and overhead applications
- ▲ for turning tool holders with DirectCooling
- ▲ can be used up to 100 bar



double

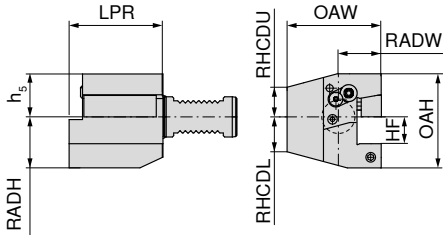
82 247 ...

| Adapter | HF _{0/-0.1} mm | LF _{0/+0.5} mm | LPR mm | OAW mm | RADH mm | RADW mm | h _s mm | OAH mm | RHCDL mm | RHCDU mm | | |
|---------|----------------------------|----------------------------|-----------|-----------|------------|------------|----------------------|-----------|-------------|-------------|--|-------------------------|
| VDI 30 | 20 | 22 | 40 | 70.0 | 38 | 35.0 | 31.5 | 69.5 | 29.5 | 27 | | £ Y8 306.70 12027 |
| VDI 40 | 25 | 22 | 44 | 85.0 | 48 | 42.5 | 38.0 | 86.0 | 35.0 | 30 | | 362.57 12526 |
| VDI 50 | 25 | 22 | 44 | 92.5 | 48 | 50.0 | 43.0 | 91.0 | 35.0 | 38 | | 450.14 12525 |

You can find spare parts on → Page 258+259

Axial square section tool holder with DirectCooling – C1 / C4

- ▲ Double tooth profile for normal and overhead applications
- ▲ for turning tool holders with DirectCooling
- ▲ can be used up to 100 bar



double

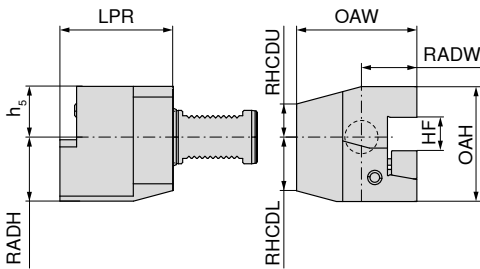
82 248 ...

| Adapter | HF _{0/-0.1} mm | LPR mm | OAW mm | RADH mm | RADW mm | h ₅ mm | OAH mm | RHCDL mm | RHCDU mm |
|---------|----------------------------|-----------|-----------|------------|------------|----------------------|-----------|-------------|-------------|
| VDI 30 | 20 | 70 | 70.0 | 38 | 35.0 | 32 | 70 | 26 | 22 |
| VDI 40 | 25 | 85 | 85.0 | 48 | 42.5 | 38 | 86 | 35 | 30 |
| VDI 50 | 25 | 85 | 90.5 | 48 | 48.0 | 44 | 92 | 42 | 35 |

| | |
|--------|-------|
| £ | |
| Y8 | |
| 350.61 | 02027 |
| 418.34 | 02526 |
| 533.83 | 02525 |

Axial square section tool holder with DirectCooling – C2 / C3

- ▲ Double tooth profile for normal and overhead applications
- ▲ for turning tool holders with DirectCooling
- ▲ can be used up to 100 bar



double

82 248 ...

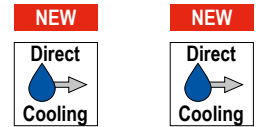
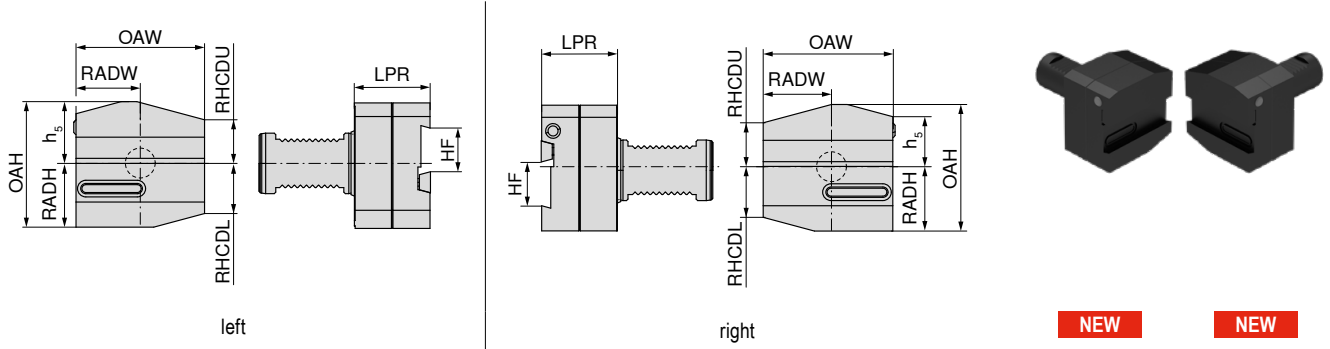
| Adapter | HF _{0/-0.1} mm | LPR mm | OAW mm | RADH mm | RADW mm | h ₅ mm | OAH mm | RHCDL mm | RHCDU mm |
|---------|----------------------------|-----------|-----------|------------|------------|----------------------|-----------|-------------|-------------|
| VDI 30 | 20 | 70 | 76 | 38 | 41.0 | 32 | 70 | 26 | 26 |
| VDI 40 | 25 | 85 | 90 | 48 | 47.5 | 38 | 86 | 35 | 30 |
| VDI 50 | 25 | 85 | 95 | 48 | 52.5 | 44 | 92 | 42 | 37 |

| | |
|--------|-------|
| £ | |
| Y8 | |
| 350.61 | 12027 |
| 418.34 | 12526 |
| 533.83 | 12525 |

You can find spare parts on → Page 258+259


Parting blade holder for parting blades with DirectCooling

- ▲ Double tooth profile for normal and overhead applications
- ▲ for parting blades with DirectCooling
- ▲ can be used up to 100 bar

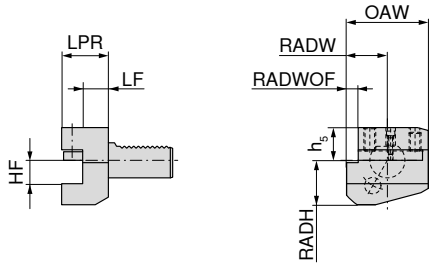


Left-hand Right-hand

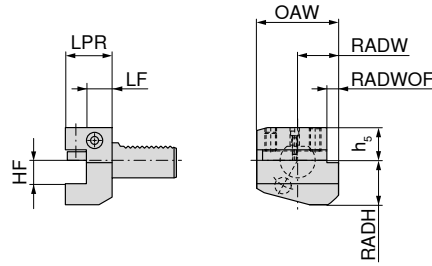
| Adapter | HF mm | LPR mm | OAW mm | RADH mm | RADW mm | h _s mm | OAH mm | RHCDL mm | RHCDU mm | Left-hand | | Right-hand | |
|---------|----------|-----------|-----------|------------|------------|----------------------|-----------|-------------|-------------|------------|-------|------------|-------|
| | | | | | | | | | | £ | | £ | |
| VDI 30 | 26 | 50 | 70 | 37 | 35.0 | 32 | 69 | 30 | 25 | 82 249 ... | | 82 249 ... | |
| | | | | | | | | | | £ | | £ | |
| | | | | | | | | | | Y8 | | Y8 | |
| VDI 30 | 26 | 50 | 70 | 37 | 35.0 | 32 | 69 | 30 | 25 | 768.93 | 12627 | 768.93 | 02627 |
| VDI 40 | 32 | 50 | 85 | 40 | 42.5 | 43 | 83 | 31 | 31 | 864.60 | 13226 | 864.60 | 03226 |
| VDI 40 | 26 | 50 | 85 | 40 | 42.5 | 43 | 83 | 31 | 31 | 864.60 | 12626 | 864.60 | 02626 |
| VDI 50 | 32 | 50 | 100 | 45 | 50.0 | 43 | 88 | 37 | 35 | 1,031.74 | 13225 | 1,031.74 | 03225 |

 You can find spare parts on → **Page 258+259**

Radial tool holders, short



B2



B1

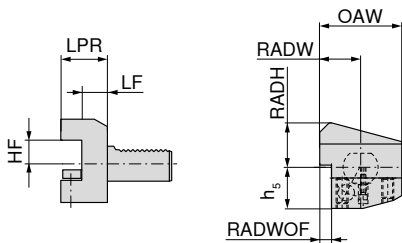


| Adapter | HF _{0/-0,1} mm | OAW mm | RADW mm | RADWOF mm | h ₅ mm | RADH mm | LF _{0/+0,5} mm | LPR mm |
|---------|----------------------------|-----------|------------|--------------|----------------------|------------|----------------------------|-----------|
| VDI 16 | 12 | 42 | 23.0 | 5.0 | 20.0 | 22 | 13.0 | 24 |
| VDI 20 | 16 | 55 | 30.0 | 7.0 | 25.0 | 30 | 26.0 | 40 |
| VDI 20 | 16 | 55 | 30.0 | 7.0 | 25.0 | 30 | 16.0 | 30 |
| VDI 20 | 16 | 55 | 30.0 | 7.0 | 25.0 | 30 | 18.0 | 30 |
| VDI 20 | 16 | 55 | 30.0 | 7.0 | 25.0 | 30 | 25.5 | 40 |
| VDI 30 | 20 | 70 | 35.0 | 10.0 | 28.0 | 38 | 18.5 | 40 |
| VDI 30 | 20 | 70 | 35.0 | 10.0 | 28.0 | 38 | 42.0 | 60 |
| VDI 30 | 20 | 70 | 35.0 | 10.0 | 28.0 | 35 | 32.0 | 50 |
| VDI 40 | 25 | 85 | 42.5 | 12.5 | 32.5 | 48 | 18.5 | 44 |
| VDI 50 | 32 | 100 | 50.0 | 16.0 | 35.0 | 60 | 30.0 | 55 |

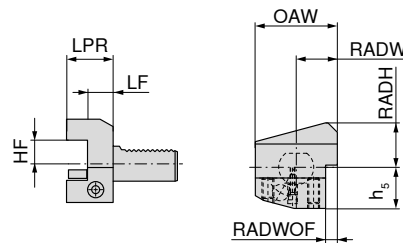
1) Height adjustable +/- 1 mm

| Left-hand | | Right-hand | |
|------------|-------------------|------------|-------------------|
| 82 189 ... | | 82 185 ... | |
| £ | | £ | |
| Y8 | | Y8 | |
| 312.03 | 160 | 224.30 | 160 |
| 249.60 | 201 | 235.85 | 201 |
| 191.49 | 200 | 204.41 | 200 |
| 696.71 | 202 ¹⁾ | 665.92 | 202 ¹⁾ |
| | | 589.32 | 203 ¹⁾ |
| 207.35 | 300 | 187.99 | 300 |
| 327.85 | 301 | 311.13 | 301 |
| | | 1,450.27 | 302 ¹⁾ |
| 210.11 | 400 | 191.83 | 400 |
| 325.78 | 500 | 320.43 | 500 |

Radial tool holders, overhead, short



B4



B3



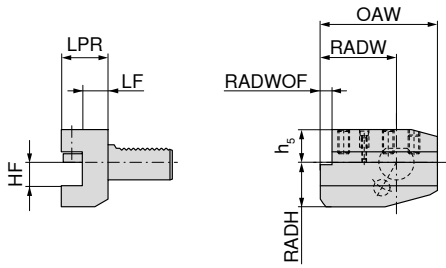
| Adapter | HF _{0/-0,1} mm | OAW mm | RADW mm | RADWOF mm | h ₅ mm | RADH mm | LF _{0/+0,5} mm | LPR mm |
|---------|----------------------------|-----------|------------|--------------|----------------------|------------|----------------------------|-----------|
| VDI 16 | 12 | 42 | 23.0 | 5.0 | 20.0 | 22 | 13.0 | 24 |
| VDI 20 | 16 | 55 | 30.0 | 7.0 | 25.0 | 30 | 26.0 | 40 |
| VDI 20 | 16 | 55 | 30.0 | 7.0 | 25.0 | 30 | 18.5 | 30 |
| VDI 20 | 16 | 55 | 30.0 | 7.0 | 25.0 | 30 | 26.0 | 40 |
| VDI 30 | 20 | 70 | 35.0 | 10.0 | 35.0 | 38 | 18.5 | 40 |
| VDI 40 | 25 | 85 | 42.5 | 12.5 | 42.5 | 48 | 18.5 | 44 |
| VDI 50 | 32 | 100 | 50.0 | 16.0 | 50.0 | 60 | 30.0 | 55 |

1) Height adjustable +/- 1 mm

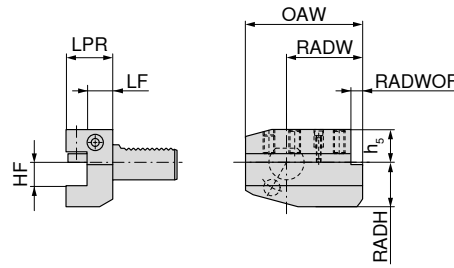
| Left-hand | | Right-hand | |
|------------|-------------------|------------|-------------------|
| 82 196 ... | | 82 193 ... | |
| £ | | £ | |
| Y8 | | Y8 | |
| | | 236.45 | 160 |
| 444.84 | 201 | 296.75 | 201 |
| 871.27 | 202 ¹⁾ | 720.44 | 202 ¹⁾ |
| 1,160.75 | 203 ¹⁾ | 756.14 | 203 ¹⁾ |
| 210.11 | 300 | 193.70 | 300 |
| 215.83 | 400 | 204.84 | 400 |
| 382.83 | 500 | 325.78 | 500 |

You can find spare parts on → Page 260

Radial tool holders, long



B6



B5

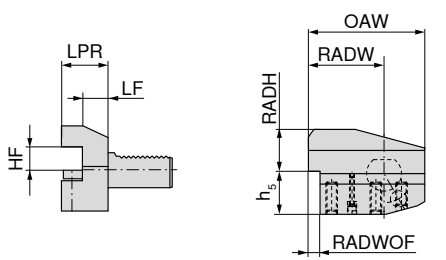


| Adapter | HF _{0/-0.1} mm | OAW mm | RADW mm | RADWOF mm | h ₅ mm | RADH mm | LF _{0/+0.5} mm | LPR mm |
|---------|----------------------------|-----------|------------|--------------|----------------------|------------|----------------------------|-----------|
| VDI 20 | 16 | 75 | 50.0 | 7.0 | 25.0 | 30 | 26.0 | 40 |
| VDI 20 | 16 | 75 | 50.0 | 7.0 | 25.0 | 30 | 18.0 | 30 |
| VDI 30 | 20 | 100 | 65.0 | 10.0 | 28.0 | 38 | 18.5 | 40 |
| VDI 40 | 25 | 118 | 75.5 | 12.5 | 32.5 | 48 | 18.5 | 44 |
| VDI 50 | 32 | 130 | 80.0 | 16.0 | 35.0 | 60 | 30.0 | 55 |

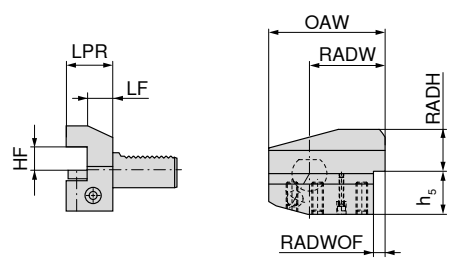
1) Height adjustable +/- 1 mm

| Left-hand | | Right-hand | |
|------------|-----|------------|-------------------|
| 82 202 ... | | 82 199 ... | |
| £ | | £ | |
| Y8 | | Y8 | |
| 359.35 | 201 | 329.29 | 201 |
| | | 846.16 | 202 ¹⁾ |
| 242.95 | 300 | 236.14 | 300 |
| 241.11 | 400 | 245.92 | 400 |
| 456.08 | 500 | 450.63 | 500 |

Radial tool holders, overhead, long



B8



B7



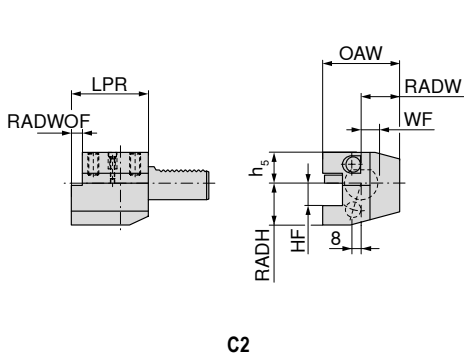
| Adapter | HF _{0/-0.1} mm | OAW mm | RADW mm | RADWOF mm | h ₅ mm | RADH mm | LF _{0/+0.5} mm | LPR mm |
|---------|----------------------------|-----------|------------|--------------|----------------------|------------|----------------------------|-----------|
| VDI 20 | 16 | 75 | 50.0 | 7.0 | 25.0 | 30 | 16.0 | 30 |
| VDI 20 | 16 | 75 | 50.0 | 7.0 | 25.0 | 30 | 18.0 | 30 |
| VDI 30 | 20 | 100 | 65.0 | 10.0 | 35.0 | 38 | 42.0 | 60 |
| VDI 30 | 20 | 100 | 65.0 | 10.0 | 35.0 | 38 | 18.5 | 40 |
| VDI 40 | 25 | 118 | 75.5 | 12.5 | 42.5 | 48 | 18.5 | 44 |
| VDI 50 | 32 | 130 | 80.0 | 16.0 | 50.0 | 60 | 30.0 | 55 |

1) Height adjustable +/- 1 mm

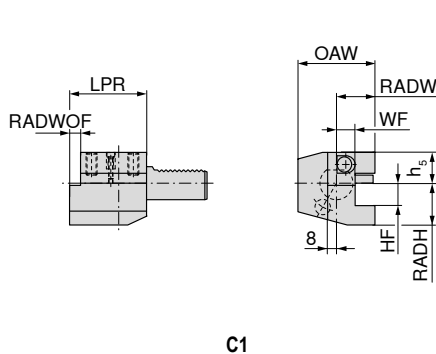
| Left-hand | | Right-hand | |
|------------|-----|------------|-------------------|
| 82 208 ... | | 82 205 ... | |
| £ | | £ | |
| Y8 | | Y8 | |
| 341.27 | 200 | 275.16 | 200 |
| | | 832.69 | 202 ¹⁾ |
| 277.63 | 300 | 358.87 | 301 |
| | | 242.95 | 300 |
| 269.32 | 400 | 269.32 | 400 |
| 438.13 | 500 | 458.32 | 500 |

You can find spare parts on → Page 260

Axial tool holders



C2



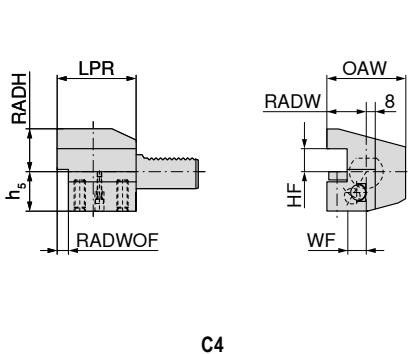
C1



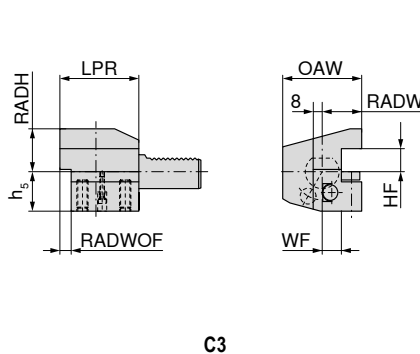
| Adapter | HF _{0/-0.1} mm | OAW mm | RADW mm | WF _{0/+0.3} mm | h ₅ mm | RADH mm | LPR mm | Left-hand | | Right-hand | |
|---------|----------------------------|-----------|------------|----------------------------|----------------------|------------|-----------|-----------|-----|------------|-------------------|
| | | | | | | | | £ | Y8 | £ | Y8 |
| VDI 16 | 12 | 43 | 24.0 | 13.0 | 20.0 | 22 | 44 | | | 307.51 | 160 |
| VDI 20 | 16 | 65 | 40.0 | 25.5 | 25.0 | 30 | 50 | | | 861.66 | 202 ¹⁾ |
| VDI 20 | 16 | 65 | 40.0 | 26.0 | 25.0 | 30 | 50 | 238.90 | 200 | 241.85 | 201 |
| VDI 30 | 20 | 76 | 41.0 | 23.0 | 28.0 | 38 | 70 | 232.42 | 300 | | |
| VDI 30 | 20 | 70 | 35.0 | 17.0 | 28.0 | 38 | 70 | | | 218.06 | 300 |
| VDI 40 | 25 | 85 | 42.5 | 20.5 | 32.5 | 48 | 85 | | | 253.66 | 400 |
| VDI 40 | 25 | 90 | 47.5 | 25.5 | 32.5 | 48 | 85 | 256.61 | 400 | | |
| VDI 50 | 32 | 105 | 55.0 | 30.5 | 35.0 | 60 | 100 | 463.64 | 500 | | |
| VDI 50 | 32 | 100 | 50.0 | 25.5 | 35.0 | 60 | 100 | | | 369.85 | 500 |

1) Height adjustable +/- 1 mm

Axial tool holders, overhead



C4



C3

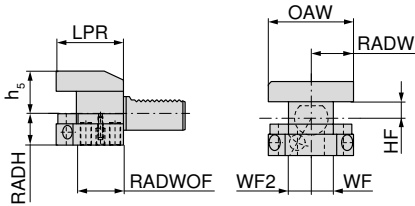


| Adapter | HF _{0/-0.1} mm | OAW mm | RADW mm | WF _{0/+0.3} mm | h ₅ mm | RADH mm | LPR mm | Left-hand | | Right-hand | |
|---------|----------------------------|-----------|------------|----------------------------|----------------------|------------|-----------|-----------|-------------------|------------|-------------------|
| | | | | | | | | £ | Y8 | £ | Y8 |
| VDI 16 | 12 | 43 | 24.0 | 13.0 | 20.0 | 22 | 44 | | | 277.12 | 160 |
| VDI 20 | 16 | 65 | 40.0 | 25.5 | 30.0 | 25 | 50 | | | 1,111.03 | 202 ¹⁾ |
| VDI 20 | 16 | 65 | 40.0 | 26.0 | 25.0 | 30 | 50 | 255.69 | 200 | 292.20 | 201 |
| VDI 20 | 16 | 65 | 40.0 | 25.5 | 25.0 | 30 | 50 | 897.25 | 201 ¹⁾ | | |
| VDI 30 | 20 | 70 | 35.0 | 17.0 | 35.0 | 38 | 70 | | | 222.69 | 300 |
| VDI 30 | 20 | 76 | 41.0 | 23.0 | 35.0 | 38 | 70 | 234.28 | 300 | | |
| VDI 40 | 25 | 85 | 42.5 | 20.5 | 42.5 | 48 | 85 | | | 256.61 | 400 |
| VDI 40 | 25 | 90 | 47.5 | 25.5 | 42.5 | 48 | 85 | 256.61 | 400 | | |
| VDI 50 | 32 | 100 | 50.0 | 25.5 | 50.0 | 60 | 100 | | | 376.32 | 500 |
| VDI 50 | 32 | 105 | 55.0 | 30.5 | 50.0 | 60 | 100 | 320.43 | 500 | | |

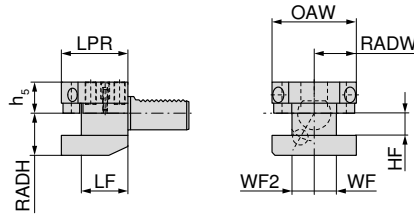
1) Height adjustable +/- 1 mm

You can find spare parts on → Page 260

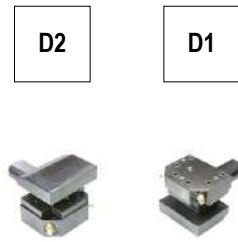
Multiple tool holders



D2



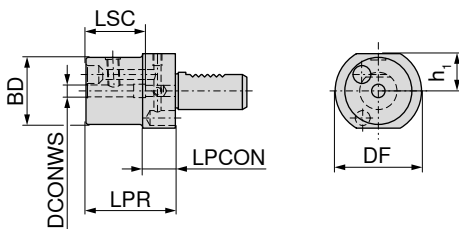
D1



| Adapter | HF _{0/-0.1} mm | RADW mm | WF _{0/+0.3} mm | WF2 _{0/+0.3} mm | OAW mm | h ₅ mm | RADH mm | LF _{0/+0.5} mm | LPR mm | 82 224 ... | | 82 222 ... | |
|---------|----------------------------|------------|----------------------------|-----------------------------|-----------|----------------------|------------|----------------------------|-----------|------------|-----|------------|-----|
| | | | | | | | | | | £ | Y8 | £ | Y8 |
| VDI 30 | 20 | 35.0 | 17.0 | 23.0 | 76 | 28.0 | 38 | 42 | 60 | 512.65 | 300 | 512.65 | 300 |
| VDI 30 | 20 | 35.0 | 17.0 | 23.0 | 76 | 35.0 | 38 | 42 | 60 | 512.65 | 300 | 512.65 | 300 |
| VDI 40 | 25 | 42.5 | 20.5 | 25.5 | 90 | 32.5 | 48 | 50 | 72 | 536.81 | 400 | 536.81 | 400 |
| VDI 40 | 25 | 42.5 | 20.5 | 25.5 | 90 | 42.5 | 48 | 50 | 72 | 536.81 | 400 | 536.81 | 400 |

Cylindrical tool holders

- ▲ for tools with cylindrical shank to DIN 6535 and DIN 1835 Form E (Whistle Notch)
- ▲ Coolant supply either centrally through the tool or via the adjustable ball spray nozzles



E



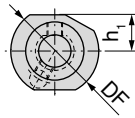
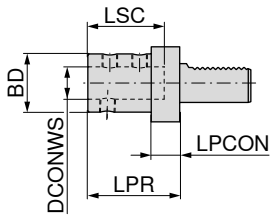
Cooling through nozzle

| Adapter | DCONWS mm | DF mm | BD mm | h ₁ mm | LPR mm | LPCON mm | LSC mm | 83 269 ... | |
|---------|--------------|----------|----------|----------------------|-----------|-------------|-----------|------------|-----|
| | | | | | | | | £ | Y8 |
| VDI 20 | 6 | 50 | 45 | 23.0 | 60 | 22 | 40 | 344.40 | 206 |
| VDI 20 | 8 | 50 | 45 | 23.0 | 60 | 22 | 40 | 329.08 | 208 |
| VDI 20 | 10 | 50 | 45 | 23.0 | 60 | 22 | 44 | 329.08 | 210 |
| VDI 20 | 12 | 50 | 45 | 23.0 | 60 | 22 | 49 | 329.08 | 212 |
| VDI 20 | 14 | 50 | 45 | 23.0 | 62 | 22 | 49 | 329.08 | 214 |
| VDI 20 | 16 | 50 | 45 | 23.0 | 67 | 22 | 52 | 318.02 | 216 |
| VDI 20 | 18 | 50 | 45 | 23.0 | 67 | 22 | 52 | 318.02 | 218 |
| VDI 20 | 20 | 50 | 45 | 23.0 | 67 | 22 | 52 | 318.02 | 220 |
| VDI 30 | 6 | 68 | 52 | 28.0 | 67 | 22 | 35 | 355.65 | 306 |
| VDI 30 | 8 | 68 | 52 | 28.0 | 67 | 22 | 35 | 340.53 | 308 |
| VDI 30 | 10 | 68 | 52 | 28.0 | 67 | 22 | 39 | 340.53 | 310 |
| VDI 30 | 12 | 68 | 52 | 28.0 | 67 | 22 | 44 | 340.53 | 312 |
| VDI 30 | 14 | 68 | 52 | 28.0 | 67 | 22 | 44 | 328.74 | 314 |
| VDI 30 | 16 | 68 | 52 | 28.0 | 67 | 22 | 47 | 327.25 | 316 |
| VDI 30 | 18 | 68 | 52 | 28.0 | 67 | 22 | 47 | 340.53 | 318 |
| VDI 30 | 20 | 68 | 52 | 28.0 | 67 | 22 | 52 | 327.25 | 320 |
| VDI 40 | 6 | 83 | 52 | 32.5 | 67 | 22 | 35 | 397.16 | 406 |
| VDI 40 | 8 | 83 | 52 | 32.5 | 67 | 22 | 35 | 382.05 | 408 |
| VDI 40 | 10 | 83 | 52 | 32.5 | 67 | 22 | 39 | 382.05 | 410 |
| VDI 40 | 12 | 83 | 52 | 32.5 | 67 | 22 | 44 | 382.05 | 412 |
| VDI 40 | 14 | 83 | 52 | 32.5 | 67 | 22 | 44 | 382.05 | 414 |
| VDI 40 | 16 | 83 | 52 | 32.5 | 67 | 22 | 47 | 368.95 | 416 |
| VDI 40 | 18 | 83 | 52 | 32.5 | 67 | 22 | 47 | 368.95 | 418 |
| VDI 40 | 20 | 83 | 52 | 32.5 | 67 | 22 | 52 | 368.95 | 420 |

Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply

E1



AD

82 274 ...

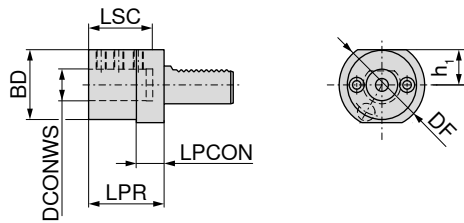
| Adapter | DCONWS _{H6} mm | DF mm | BD mm | h ₁ mm | LPR mm | LPCON mm | LSC mm | £ Y8 | |
|---------|----------------------------|----------|----------|----------------------|-----------|-------------|-----------|---------|-----|
| VDI 20 | 16 | 50 | 36 | 23.0 | 67 | 18 | 54 | 183.01 | 200 |
| VDI 20 | 20 | 50 | 40 | 23.0 | 67 | 18 | 54 | 183.01 | 201 |
| VDI 20 | 25 | 50 | 45 | 23.0 | 71 | 18 | 59 | 183.01 | 202 |
| VDI 30 | 16 | 68 | 36 | 28.0 | 67 | 22 | 54 | 169.54 | 300 |
| VDI 30 | 20 | 68 | 40 | 28.0 | 67 | 22 | 54 | 169.54 | 301 |
| VDI 30 | 25 | 68 | 45 | 28.0 | 71 | 22 | 59 | 169.54 | 302 |
| VDI 30 | 32 | 68 | 52 | 28.0 | 75 | 22 | 63 | 169.54 | 303 |
| VDI 30 | 40 | 68 | 60 | 28.0 | 87 | 22 | 73 | 246.15 | 304 |
| VDI 40 | 16 | 83 | 36 | 32.5 | 67 | 22 | 54 | 191.83 | 400 |
| VDI 40 | 20 | 83 | 40 | 32.5 | 67 | 22 | 54 | 191.83 | 401 |
| VDI 40 | 25 | 83 | 45 | 32.5 | 75 | 22 | 59 | 191.83 | 402 |
| VDI 40 | 32 | 83 | 52 | 32.5 | 75 | 22 | 63 | 191.83 | 403 |
| VDI 40 | 40 | 83 | 60 | 32.5 | 90 | 22 | 73 | 191.83 | 404 |
| VDI 50 | 20 | 98 | 40 | 35.0 | 80 | 30 | 54 | 270.98 | 500 |
| VDI 50 | 25 | 98 | 45 | 35.0 | 80 | 30 | 59 | 270.98 | 501 |
| VDI 50 | 32 | 98 | 52 | 35.0 | 80 | 30 | 63 | 270.98 | 502 |
| VDI 50 | 40 | 98 | 60 | 35.0 | 90 | 30 | 73 | 270.98 | 503 |
| VDI 50 | 50 | 98 | 70 | 35.0 | 100 | 30 | 83 | 245.27 | 504 |



You can find spare parts on → Page 260

Boring bar holder

- ▲ for turning tools with cylindrical shank
- ▲ Coolant supply either through the tool or via the ball-shaped spray nozzle



E2



Cooling through nozzle

82 268 ...

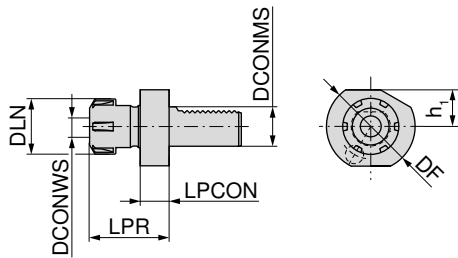
| Adapter | DCONWS _{H7} mm | DF mm | BD mm | h ₁ mm | LPR mm | LPCON mm | LSC mm | £ Y8 | |
|---------|----------------------------|----------|----------|----------------------|-----------|-------------|-----------|---------|-------------------|
| VDI 16 | 6 | 40 | 32 | 18.0 | 44 | 13 | 34 | 277.41 | 160 ¹⁾ |
| VDI 16 | 8 | 40 | 32 | 18.0 | 44 | 13 | 34 | 211.71 | 161 ¹⁾ |
| VDI 16 | 10 | 40 | 32 | 18.0 | 44 | 13 | 34 | 211.71 | 162 ¹⁾ |
| VDI 16 | 12 | 40 | 40 | 18.0 | 44 | 13 | 34 | 211.71 | 163 ¹⁾ |
| VDI 16 | 16 | 40 | 40 | 18.0 | 44 | 13 | 34 | 211.71 | 164 ¹⁾ |
| VDI 20 | 8 | 50 | 40 | 23.0 | 50 | 18 | 41 | 196.83 | 200 |
| VDI 20 | 10 | 50 | 40 | 23.0 | 50 | 18 | 41 | 196.83 | 201 |
| VDI 20 | 12 | 50 | 40 | 23.0 | 50 | 18 | 41 | 196.83 | 202 |
| VDI 20 | 16 | 50 | 40 | 23.0 | 50 | 18 | 41 | 196.83 | 203 |
| VDI 20 | 20 | 50 | 50 | 23.0 | 50 | 18 | 41 | 196.83 | 204 |
| VDI 20 | 25 | 50 | 50 | 23.0 | 60 | 18 | 51 | 196.83 | 205 |
| VDI 30 | 8 | 68 | 55 | 28.0 | 60 | 22 | 51 | 191.83 | 300 |
| VDI 30 | 10 | 68 | 55 | 28.0 | 60 | 22 | 51 | 191.83 | 301 |
| VDI 30 | 12 | 68 | 55 | 28.0 | 60 | 22 | 51 | 191.83 | 302 |
| VDI 30 | 16 | 68 | 55 | 28.0 | 60 | 22 | 51 | 191.83 | 303 |
| VDI 30 | 20 | 68 | 55 | 28.0 | 60 | 22 | 51 | 191.83 | 304 |
| VDI 30 | 25 | 68 | 55 | 28.0 | 60 | 22 | 51 | 191.83 | 305 |
| VDI 30 | 32 | 68 | 68 | 28.0 | 75 | 22 | 61 | 191.83 | 306 |
| VDI 40 | 8 | 83 | 55 | 32.5 | 75 | 22 | 61 | 195.56 | 400 |
| VDI 40 | 10 | 83 | 55 | 32.5 | 75 | 22 | 61 | 195.56 | 401 |
| VDI 40 | 12 | 83 | 55 | 32.5 | 75 | 22 | 61 | 195.56 | 402 |
| VDI 40 | 16 | 83 | 55 | 32.5 | 75 | 22 | 61 | 195.56 | 403 |
| VDI 40 | 20 | 83 | 55 | 32.5 | 75 | 22 | 61 | 195.56 | 404 |
| VDI 40 | 25 | 83 | 55 | 32.5 | 75 | 22 | 61 | 195.56 | 405 |
| VDI 40 | 32 | 83 | 83 | 32.5 | 75 | 22 | 61 | 195.56 | 406 |
| VDI 40 | 40 | 83 | 83 | 32.5 | 90 | 22 | 76 | 195.56 | 407 |
| VDI 50 | 12 | 98 | 68 | 35.0 | 90 | 30 | 76 | 281.69 | 500 |
| VDI 50 | 16 | 98 | 68 | 35.0 | 90 | 30 | 76 | 281.69 | 501 |
| VDI 50 | 20 | 98 | 68 | 35.0 | 90 | 30 | 76 | 281.69 | 502 |
| VDI 50 | 25 | 98 | 68 | 35.0 | 90 | 30 | 76 | 270.08 | 503 |
| VDI 50 | 32 | 98 | 68 | 35.0 | 90 | 30 | 76 | 270.08 | 504 |
| VDI 50 | 40 | 98 | 98 | 35.0 | 90 | 30 | 76 | 270.08 | 505 |
| VDI 50 | 50 | 98 | 98 | 35.0 | 100 | 30 | 86 | 270.08 | 506 |

1) Coolant supply through pipe joint

You can find spare parts on → Page 260

ER Collet chucks

E4



82 286 ...

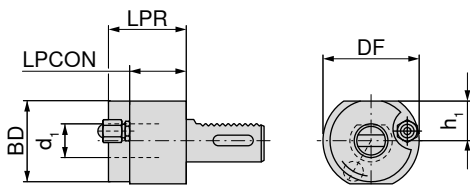
| Adapter | DCONWS mm | DF mm | DLN mm | h ₁ mm | LPR mm | LPCON mm | for collet | £ Y8 | |
|---------|--------------|----------|-----------|----------------------|-----------|-------------|-------------|---------|-----|
| VDI 16 | 1 - 10 | 40 | 28 | 18.0 | 43.5 | 14 | 426E (ER16) | 323.39 | 160 |
| VDI 16 | 1 - 13 | 40 | 34 | 18.0 | 44.0 | 14 | 428E (ER20) | 320.01 | 161 |
| VDI 20 | 1 - 16 | 50 | 42 | 23.0 | 57.0 | 18 | 430E (ER25) | 263.43 | 202 |
| VDI 20 | 2 - 20 | 50 | 50 | 23.0 | 62.0 | 18 | 470E (ER32) | 275.42 | 203 |
| VDI 30 | 1 - 16 | 68 | 42 | 28.0 | 57.0 | 22 | 430E (ER25) | 260.03 | 300 |
| VDI 30 | 2 - 20 | 68 | 50 | 28.0 | 75.0 | 22 | 470E (ER32) | 260.27 | 301 |
| VDI 40 | 1 - 16 | 83 | 42 | 32.5 | 75.0 | 22 | 430E (ER25) | 281.94 | 400 |
| VDI 40 | 2 - 20 | 83 | 50 | 32.5 | 75.0 | 22 | 470E (ER32) | 281.94 | 401 |
| VDI 40 | 3 - 26 | 83 | 63 | 32.5 | 75.0 | 22 | 472E (ER40) | 276.89 | 402 |
| VDI 50 | 2 - 20 | 94 | 50 | 35.0 | 75.0 | 30 | 470E (ER32) | 410.64 | 500 |
| VDI 50 | 3 - 26 | 94 | 63 | 35.0 | 63.0 | 30 | 472E (ER40) | 410.64 | 501 |

ER collets can be found on → Pages 262–273.

Morse taper adapters

▲ For taper shanks with ejector tang

F1

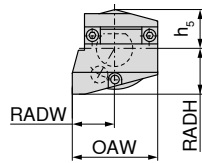
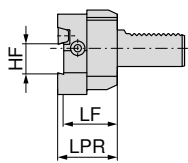


82 277 ...

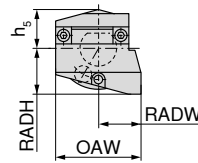
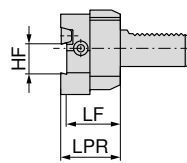
| Adapter | d ₁ | BD mm | DF mm | h ₁ mm | LPR mm | LPCON mm | £ Y8 | |
|---------|----------------|----------|----------|----------------------|-----------|-------------|---------|-----|
| VDI 20 | MK1 | | 50 | 23.0 | 23 | | 195.22 | 200 |
| VDI 20 | MK2 | | 50 | 23.0 | 87 | | 195.22 | 201 |
| VDI 30 | MK1 | | 68 | 28.0 | 27 | | 191.64 | 300 |
| VDI 30 | MK2 | | 68 | 28.0 | 27 | | 192.97 | 301 |
| VDI 30 | MK3 | 58 | 68 | 28.0 | 55 | 40 | 192.97 | 302 |
| VDI 40 | MK2 | 55 | 83 | 32.5 | 36 | 22 | 196.47 | 401 |
| VDI 40 | MK3 | 58 | 83 | 32.5 | 36 | 22 | 196.47 | 402 |
| VDI 40 | MK4 | 68 | 83 | 32.5 | 80 | 22 | 196.47 | 403 |
| VDI 50 | MK2 | 55 | 98 | 35.0 | 36 | 30 | 297.93 | 500 |
| VDI 50 | MK3 | 58 | 98 | 35.0 | 36 | 30 | 297.93 | 501 |
| VDI 50 | MK4 | 68 | 98 | 35.0 | 50 | 30 | 297.93 | 502 |

Parting blade holders, height adjustable

- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



left



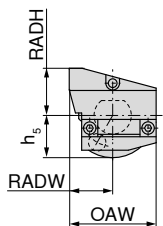
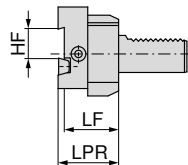
right



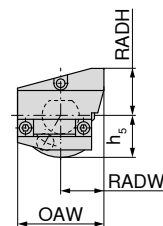
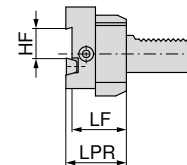
| Adapter | OAW mm | RADW mm | HF mm | h _s mm | RADH mm | LF mm | LPR mm | Left-hand | | Right-hand | |
|---------|-----------|------------|----------|----------------------|------------|----------|-----------|------------|-----|------------|-----|
| | | | | | | | | 82 237 ... | £ | 82 236 ... | £ |
| VDI 30 | 70 | 35.0 | 26 | 28.0 | 38 | 44 | 49 | £ 689.16 | 300 | £ 689.16 | 300 |
| VDI 30 | 70 | 35.0 | 32 | 30.5 | 38 | 44 | 49 | £ 873.85 | 302 | £ 873.85 | 302 |
| VDI 40 | 73 | 42.5 | 26 | 32.0 | 48 | 44 | 49 | £ 905.31 | 040 | £ 905.31 | 040 |
| VDI 40 | 85 | 42.5 | 32 | 32.0 | 48 | 44 | 49 | £ 814.42 | 400 | £ 710.11 | 400 |

Parting blade holders, height adjustable, overhead

- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



left



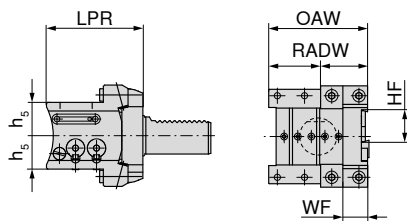
right



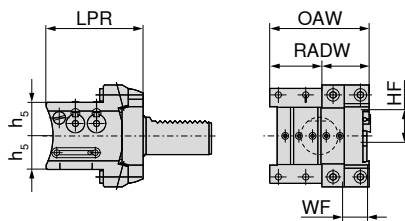
| Adapter | OAW mm | RADW mm | HF mm | h _s mm | RADH mm | LF mm | LPR mm | Left-hand | | Right-hand | |
|---------|-----------|------------|----------|----------------------|------------|----------|-----------|------------|-----|------------|-----|
| | | | | | | | | 82 243 ... | £ | 82 242 ... | £ |
| VDI 30 | 70 | 35.0 | 26 | 34.0 | 38 | 44 | 49 | £ 1,035.94 | 300 | £ 1,035.94 | 300 |
| VDI 30 | 70 | 35.0 | 32 | 30.5 | 38 | 44 | 49 | £ 873.85 | 302 | £ 979.82 | 302 |
| VDI 40 | 73 | 42.5 | 26 | 32.0 | 48 | 44 | 49 | £ 905.31 | 040 | £ 905.31 | 040 |
| VDI 40 | 85 | 42.5 | 32 | 32.0 | 48 | 44 | 49 | £ 709.11 | 400 | £ 709.11 | 400 |

Parting blade holders, height adjustable

- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



Universal-overhead



Universal

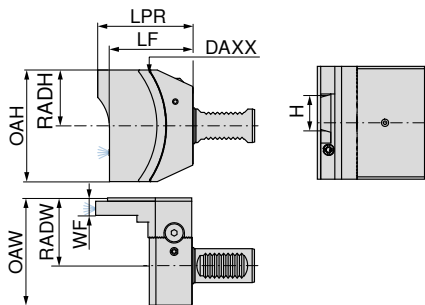


Universal-overhead Universal

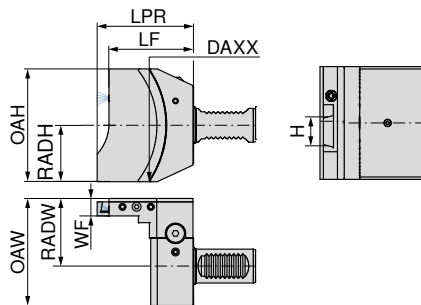
| Adapter | OAW mm | RADW mm | HF mm | h ₅ mm | WF mm | LPR mm | 82 244 ... | | 82 238 ... | |
|---------|-----------|------------|----------|----------------------|----------|-----------|------------|-----|------------|-----|
| | | | | | | | £ Y8 | | £ Y8 | |
| VDI 30 | 80 | 40 | 26 | 27 | 20 | 78 | 1,391.86 | 300 | 1,391.86 | 300 |
| VDI 40 | 80 | 40 | 26 | 27 | 20 | 88 | 1,544.37 | 400 | 1,544.37 | 400 |
| VDI 40 | 80 | 40 | 32 | 32 | 20 | 88 | 1,544.37 | 402 | 1,544.37 | 402 |

Parting blade holder

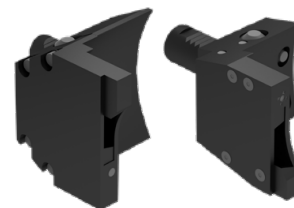
- ▲ doubles = reciprocally interlocked VDI shank



double – overhead




double



double – overhead double

| Adapter | LPR mm | LF mm | OAH mm | RADH mm | OAW mm | RADW mm | WF mm | DAXX mm | H mm | 83 227 ... | | 83 226 ... | |
|---------|-----------|----------|-----------|------------|-----------|------------|----------|------------|---------|------------|---------------------|------------|---------------------|
| | | | | | | | | | | £ Y7 | | £ Y7 | |
| VDI 20 | 85.5 | 75 | 94 | 47 | 85 | 60 | 15.5 | 176 | 26 | 1,500.38 | 02629 ¹⁾ | 1,500.38 | 02629 ¹⁾ |
| VDI 30 | 85.5 | 75 | 100 | 50 | 95 | 60 | 15.5 | 176 | 32 | 1,500.38 | 03227 ¹⁾ | 1,500.38 | 03227 ¹⁾ |
| VDI 30 | 85.5 | 75 | 100 | 50 | 95 | 60 | 15.5 | 176 | 26 | 1,500.38 | 02627 ¹⁾ | 1,500.38 | 02627 ¹⁾ |
| VDI 40 | 88.5 | 78 | 100 | 50 | 95 | 60 | 15.5 | 176 | 32 | 1,617.95 | 03226 ¹⁾ | 1,617.95 | 03226 ¹⁾ |
| VDI 40 | 88.5 | 78 | 100 | 50 | 95 | 60 | 15.5 | 176 | 26 | 1,617.95 | 02626 ¹⁾ | 1,617.95 | 02626 ¹⁾ |

1) Not ex-stock

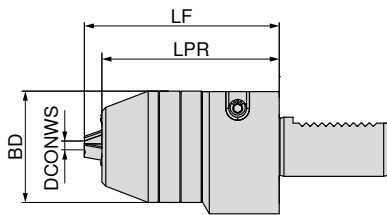
 With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Short drill chuck – NC 2010

- ▲ Coolant supply via 3 adjustable ball-shaped spray nozzles in the housing
- ▲ Independent of direction of rotation

Scope of supply:

Basic body including chuck key SW 4

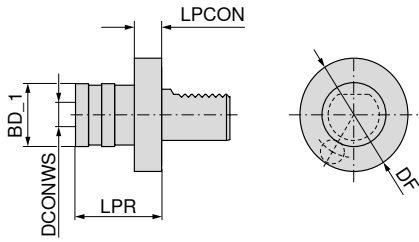


| Adapter | DCONWS mm | BD mm | LPR mm | LF mm | 84 297 ... £ Y8 | |
|---------|--------------|----------|-----------|----------|-----------------------|-------------------|
| VDI 20 | 0,5 - 10 | 48.5 | 40 | 50 | 679.56 | 210 ¹⁾ |
| VDI 30 | 0,5 - 13 | 56.5 | 90 | 99 | 684.75 | 313 |
| VDI 30 | 2,5 - 16 | 56.5 | 90 | 99 | 726.62 | 316 |
| VDI 40 | 0,5 - 13 | 56.5 | 90 | 99 | 684.75 | 413 |
| VDI 40 | 2,5 - 16 | 56.5 | 90 | 99 | 726.62 | 416 |

1) Without Through Coolant

Quick-change tap chucks GSF

▲ LZD = Length compensation under tension and compression



| Adapter | cutting range | SZID | DCONWS mm | BD_1 mm | LPR mm | LZD± mm | 83 307 ... | |
|---------|---------------|------|-----------|---------|--------|---------|------------|-----|
| | | | | | | | £ | |
| VDI 20 | M3 - M12 | 01 | 19 | 38 | 55 | 9 | Y8 | |
| VDI 30 | M3 - M12 | 01 | 19 | 38 | 55 | 9 | 755.04 | 112 |
| VDI 40 | M3 - M12 | 01 | 19 | 38 | 55 | 9 | 578.85 | 312 |
| | | | | | | | 648.60 | 412 |
| VDI 20 | M6 - M20 | 02 | 31 | 55 | 77 | 15 | 824.75 | 120 |
| VDI 30 | M6 - M20 | 02 | 31 | 55 | 77 | 15 | 764.99 | 320 |
| VDI 40 | M6 - M20 | 02 | 31 | 55 | 77 | 15 | 798.34 | 420 |

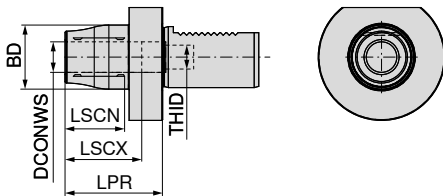
Quick change adapters can be found on → Page 282–286.

Hydraulic chuck

- ▲ For the hydraulic clamping of cylindrical tool shanks tol. h6, boring bars and cylindrical tool holders tol. h7, g6 in fixed base holders
- ▲ One screw for locking the boring bar
- ▲ High-precision clamping with a repeatability of 3 µm

Scope of supply:

Base body with backstop screw and pressure screw



AD

| Adapter | DCONWS mm | BD mm | LPR mm | LSCX mm | LSCN mm | THID | 83 402 ... | |
|---------|-----------|-------|--------|---------|---------|-------|------------|-------|
| | | | | | | | £ | |
| VDI 30 | 20 | 42 | 64 | 51 | 41 | M16x1 | Y8 | |
| VDI 40 | 20 | 42 | 64 | 51 | 41 | M16x1 | 946.07 | 02027 |
| | | | | | | | 988.13 | 02026 |



Spare parts

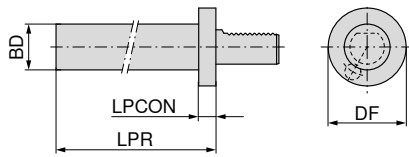
DCONWS

20

| 83 950 ... | |
|----------------|-------------|
| £ | |
| Y7 | |
| M16x1x31 - SW5 | 31.25 48700 |

Test arbors

▲ Radial run-out ≤ 0.02 mm



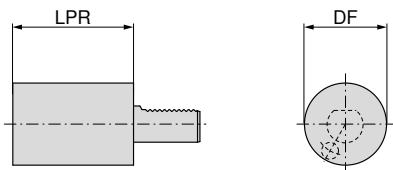
| Adapter | BD _{h5} mm | DF mm | LPR mm | LPCON mm |
|---------|------------------------|----------|-----------|-------------|
| VDI 16 | 30 | 40 | 120 | 15 |
| VDI 20 | 40 | 50 | 150 | 15 |
| VDI 30 | 40 | 68 | 200 | 15 |
| VDI 40 | 40 | 83 | 200 | 15 |
| VDI 50 | 40 | 98 | 200 | 15 |

83 324 ...

| £ Y8 | |
|---------|-----|
| 433.37 | 016 |
| 471.37 | 020 |
| 509.12 | 030 |
| 537.24 | 040 |
| 586.90 | 050 |

Tool holders, rough machined, round

▲ Manufactured from C45



A2



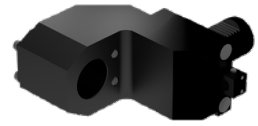
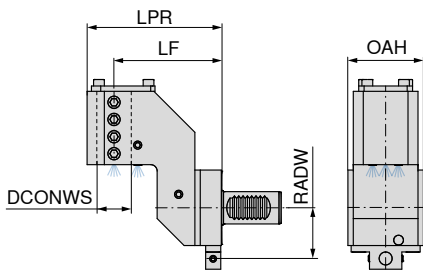
| Adapter | LPR mm | DF mm |
|---------|-----------|----------|
| VDI 16 | 60 | 40 |
| VDI 20 | 70 | 50 |
| VDI 30 | 100 | 68 |
| VDI 30 | 240 | 68 |
| VDI 40 | 120 | 83 |
| VDI 40 | 320 | 83 |
| VDI 50 | 135 | 98 |
| VDI 50 | 400 | 98 |

82 330 ...

| £ Y8 | |
|---------|-----|
| 147.02 | 160 |
| 128.26 | 200 |
| 150.27 | 300 |
| 182.50 | 303 |
| 176.10 | 400 |
| 265.88 | 403 |
| 247.27 | 500 |
| 399.20 | 502 |

Boring bar holder, with offset, with through coolant

- ▲ doubles = reciprocally interlocked VDI shank
- ▲ external coolant supply available



IC

double

83 229 ...

£

Y7

1,345.96 02528¹⁾

1,573.86 03227¹⁾

1,845.80 04026¹⁾

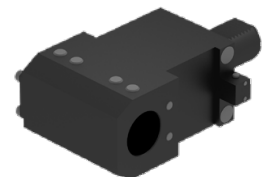
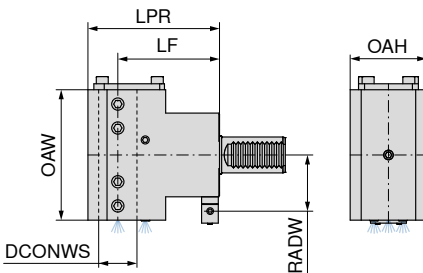
| Adapter | DCONWS mm | LPR mm | LF mm | OAH mm | RADW mm |
|---------|--------------|-----------|----------|-----------|------------|
| VDI 25 | 25 | 99.5 | 75 | 30 | 40 |
| VDI 30 | 32 | 125.0 | 100 | 70 | 47 |
| VDI 40 | 40 | 133.0 | 100 | 85 | 56 |

1) Not ex-stock

With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Double boring bar holder with through coolant

- ▲ for use of two boring bars for main and sub-spindle machining
- ▲ external coolant supply available



IC

83 230 ...

£

Y7

1,515.37 02528¹⁾

1,610.61 03227¹⁾

1,610.61 13227¹⁾

1,746.57 04026¹⁾

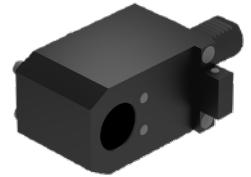
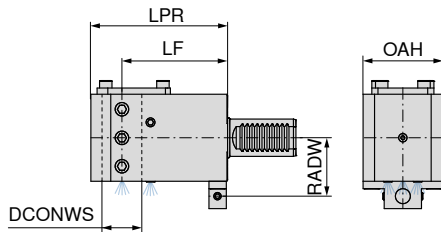
| Adapter | DCONWS mm | LPR mm | LF mm | OAH mm | RADW mm | OAW mm |
|---------|--------------|-----------|----------|-----------|------------|-----------|
| VDI 25 | 25 | 99.5 | 75 | 54 | 40 | 104 |
| VDI 30 | 32 | 110.0 | 85 | 62 | 47 | 109 |
| VDI 30 | 32 | 125.0 | 100 | 62 | 47 | 118 |
| VDI 40 | 40 | 152.0 | 120 | 76 | 56 | 116 |

1) Not ex-stock

With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Boring bar holder with through coolant

▲ external coolant supply available



IC

| Adapter | DCONWS mm | LPR mm | LF mm | OAH mm | RADW mm |
|---------|--------------|-----------|----------|-----------|------------|
| VDI 25 | 25 | 100 | 75 | 60 | 40 |
| VDI 30 | 32 | 110 | 85 | 64 | 47 |
| VDI 30 | 32 | 125 | 100 | 64 | 47 |
| VDI 40 | 40 | 130 | 100 | 76 | 56 |
| VDI 40 | 40 | 152 | 120 | 76 | 56 |
| VDI 50 | 50 | 155 | 120 | 98 | 64 |

83 228 ...

£

Y7

894.35 02528¹⁾

1,047.99 03227¹⁾


1,088.49 13227¹⁾

1,316.39 04026¹⁾

1,360.63 14026¹⁾

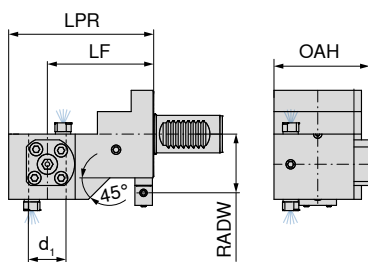
1,570.07 05025¹⁾

1) Not ex-stock

 With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

90° VDI to VDI adapter, double sided

▲ for rotating toolholder



IC

| Adapter | DCONWS mm | LPR mm | LF mm | OAH mm | RADW mm |
|---------|--------------|-----------|----------|-----------|------------|
| VDI 25 | 25 | 104 | 75 | 38.0 | 40 |
| VDI 25 | 20 | 104 | 75 | 67.5 | 40 |
| VDI 30 | 30 | 116 | 85 | 76.5 | 47 |
| VDI 30 | 30 | 131 | 100 | 76.5 | 47 |
| VDI 40 | 40 | 133 | 100 | 89.0 | 56 |
| VDI 40 | 40 | 153 | 120 | 89.0 | 56 |

83 225 ...

£

Y7

1,128.97 02528¹⁾

1,128.97 02028¹⁾

1,298.12 03027¹⁾

1,338.42 13027¹⁾

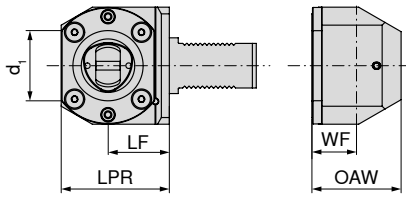
1,570.07 04026¹⁾

1,570.07 14026¹⁾

1) Not ex-stock

90° VDI to PSC adapter

Scope of supply:
including pull stud

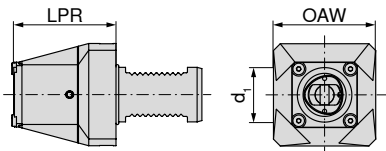


| | | | | | | 90° | |
|--------|--------|----|----|----|----|------------|---------------------|
| | | | | | | 83 231 ... | |
| | | | | | | £ | |
| | | | | | | Y7 | |
| VDI 30 | PSC 40 | 41 | 65 | 21 | 56 | 1,637.67 | 04027 ¹⁾ |
| VDI 40 | PSC 40 | 51 | 75 | 30 | 86 | 1,711.15 | 04026 ¹⁾ |
| VDI 40 | PSC 50 | 53 | 85 | 40 | 80 | 1,711.15 | 05026 ¹⁾ |
| VDI 40 | PSC 63 | 53 | 95 | 40 | 80 | 1,803.34 | 06326 ¹⁾ |
| VDI 50 | PSC 50 | 53 | 85 | 40 | 80 | 1,711.15 | 05025 ¹⁾ |
| VDI 50 | PSC 63 | 55 | 97 | 40 | 80 | 1,803.34 | 06325 ¹⁾ |

1) Not ex-stock

VDI to PSC adapter

Scope of supply:
including pull stud



| | | | | 83 232 ... | |
|--------|--------|-----|-----|------------|---------------------|
| | | | | £ | |
| | | | | Y7 | |
| VDI 30 | PSC 40 | 70 | 60 | 1,637.67 | 04027 ¹⁾ |
| VDI 40 | PSC 40 | 75 | 75 | 1,637.67 | 04026 ¹⁾ |
| VDI 40 | PSC 50 | 85 | 82 | 1,711.15 | 05026 ¹⁾ |
| VDI 40 | PSC 63 | 90 | 105 | 1,803.34 | 06326 ¹⁾ |
| VDI 50 | PSC 50 | 85 | 91 | 1,711.15 | 05025 ¹⁾ |
| VDI 50 | PSC 63 | 100 | 105 | 1,803.34 | 06325 ¹⁾ |

1) Not ex-stock

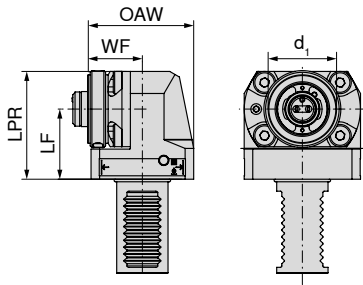
Accessories



Pull stud PSC

→ 172

90° VDI to HSK-T adapter



90°

83 233 ...

£

Y7

1,637.67 04027¹⁾

1,637.67 04026¹⁾

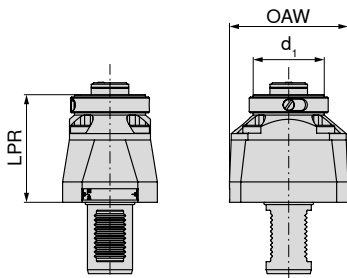
1,803.34 06326¹⁾

1,803.34 06325¹⁾

| Adapter | d ₁ | LF mm | LPR mm | WF mm | OAW mm |
|---------|----------------|----------|-----------|----------|-----------|
| VDI 30 | HSK-T 40 | 41 | 65 | 25 | 60 |
| VDI 40 | HSK-T 40 | 51 | 75 | 34 | 90 |
| VDI 40 | HSK-T 63 | 53 | 90 | 45 | 85 |
| VDI 50 | HSK-T 63 | 55 | 97 | 45 | 85 |

1) Not ex-stock

VDI to HSK-T adapter



83 234 ...

£

Y7

1,774.27 04027¹⁾

1,774.27 04026¹⁾

1,953.63 06326¹⁾

1,953.63 06325¹⁾

| Adapter | d ₁ | LPR mm | OAW mm |
|---------|----------------|-----------|-----------|
| VDI 30 | HSK-T 40 | 74 | 60 |
| VDI 40 | HSK-T 40 | 79 | 75 |
| VDI 40 | HSK-T 63 | 95 | 105 |
| VDI 50 | HSK-T 63 | 105 | 105 |

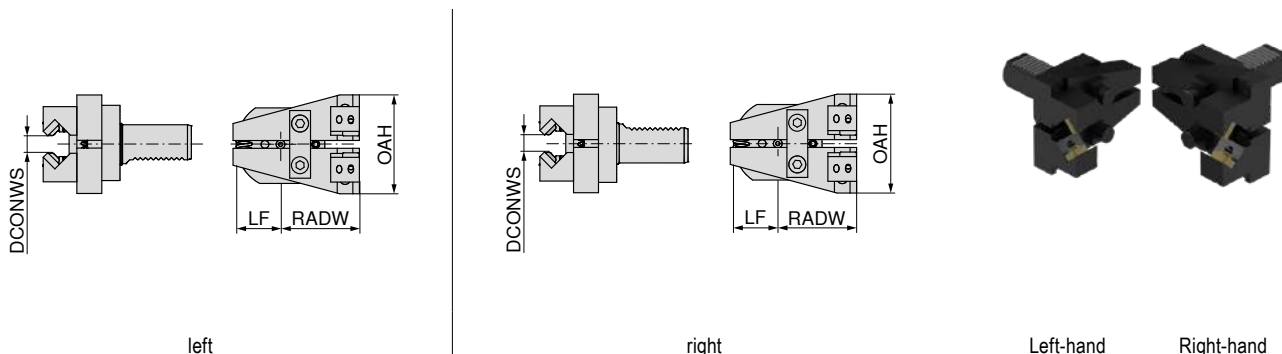
1) Not ex-stock

Bar pullers for disc turrets, radial

- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ GA = Gripper set

Scope of supply:

Bar puller incl. GA 1 for VDI 16, and GA 3 from VDI 20



| Adapter | DCONWS mm | LF mm | OAH mm | RADW mm | GA |
|---------|--------------|----------|-----------|------------|-------|
| VDI 16 | 2 - 22 | 28 | 74 | 35 | 1 |
| VDI 20 | 2 - 42 | 34 | 85 | 61 | 3 |
| VDI 30 | 2 - 42 | 34 | 105 | 61 | 3 - 4 |
| VDI 40 | 2 - 65 | 34 | 125 | 61 | 3 - 4 |

| Left-hand | | Right-hand | |
|------------|-------|------------|-------|
| 80 309 ... | | 80 306 ... | |
| £ | | £ | |
| Y7 | | Y7 | |
| | | 2,100.50 | 01600 |
| | | 2,482.53 | 02000 |
| 2,482.53 | 03000 | 2,482.53 | 03000 |
| 3,473.84 | 04000 | 3,473.84 | 04000 |

Bar pullers for star turrets

- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ 90° angle head
- ▲ GA = Gripper set

Scope of supply:

Bar puller with GA 3

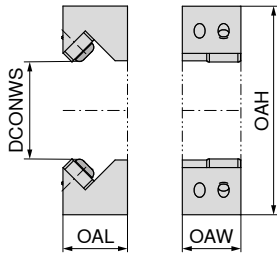


| Adapter | DCONWS mm | LF mm | LPR mm | WF mm | GA |
|---------|--------------|----------|-----------|----------|-------|
| VDI 30 | 2 - 42 | 122.5 | 129 | 37.0 | 3 - 4 |
| VDI 40 | 2 - 65 | 142.5 | 149 | 41.5 | 3 - 4 |

| Left-hand | |
|------------|-------|
| 80 310 ... | |
| £ | |
| Y7 | |
| 2,727.14 | 03000 |
| 3,564.22 | 04000 |

Gripper accessories

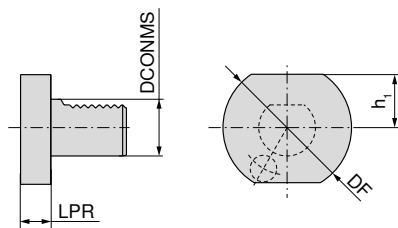
- ▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...
- ▲ Price per pair



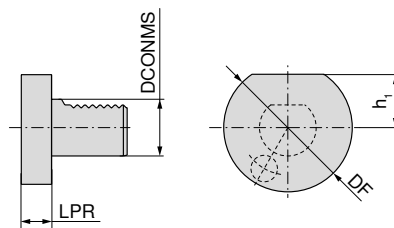
80 312 ...

| GA | DCONWS mm | OAL mm | OAW mm | OAH mm | £ | |
|----|--------------|-----------|-----------|-----------|--------|-------|
| 1 | 2 - 22 | 24.5 | 13 | 58 | Y7 | |
| 3 | 2 - 42 | 26.0 | 22 | 86 | 454.37 | 12200 |
| 4 | 42 - 65 | 29.5 | 22 | 102 | 454.37 | 14200 |
| | | | | | 607.97 | 16500 |

Protection plugs



Steel



Plastic



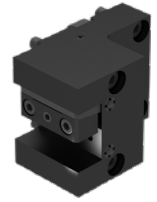
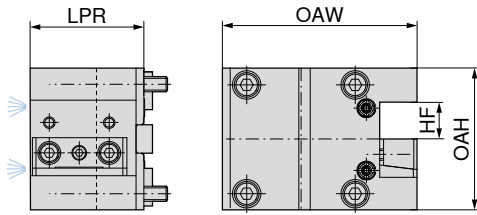
Steel

Plastic

| DCONMS _{h8} mm | DF mm | h ₁ mm | LPR mm | 82 317 ... | | 83 318 ... | |
|----------------------------|----------|----------------------|-----------|------------|-----|------------|-----|
| | | | | £ | | £ | |
| 16 | 40 | 18.0 | 16 | Y8 | | Y8 | |
| 20 | 50 | 23.0 | 16 | 44.51 | 160 | 37.21 | 160 |
| 30 | 68 | 28.0 | 16 | 88.39 | 200 | 15.08 | 200 |
| 40 | 83 | 32.5 | 20 | 47.22 | 300 | 15.04 | 300 |
| 50 | 98 | 35.0 | 20 | 55.54 | 400 | 17.34 | 400 |
| | | | | 108.77 | 500 | 24.65 | 500 |

Doosan/Spinner – BMT 45 – axial square section tool holder

▲ directly screwed version



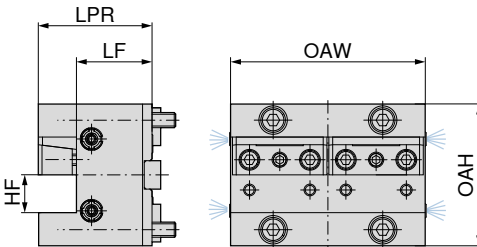
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|----------|-----------|-----------|-----------|
| BMT 45 | 58 x 58 | 20 | 60 | 75 | 99.5 |

| Left-hand | Left-hand |
|------------------------------|----------------------------|
| 82 480 ... | 82 480 ... |
| £ Y7 | £ Y7 |
| 1,017.48 00001 ¹⁾ | 880.69 00006 ¹⁾ |

1) Not ex-stock

Doosan/Spinner – BMT 45 – radial square section tool holder

▲ directly screwed version



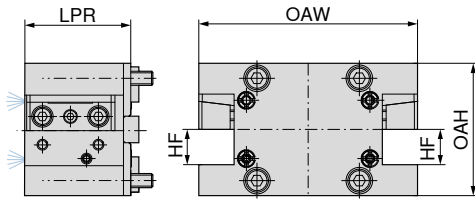
| Adapter | Hole pattern | HF mm | LF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|----------|----------|-----------|-----------|-----------|
| BMT 45 | 58 x 58 | 20 | 40 | 60 | 75 | 103 |
| BMT 45 | 58 x 58 | 20 | 40 | 60 | 75 | 80 |

| Left-hand | Left-hand |
|------------------------------|----------------------------|
| 82 480 ... | 82 480 ... |
| £ Y7 | £ Y7 |
| 1,069.23 01002 ¹⁾ | 926.60 01007 ¹⁾ |

1) Not ex-stock

Doosan/Spinner – BMT 45 – multi square section tool holder

▲ directly screwed version



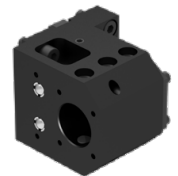
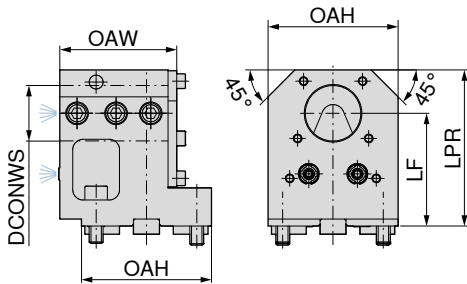
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|----------|-----------|-----------|-----------|
| BMT 45 | 58 x 58 | 20 | 60 | 75 | 124 |

| | |
|------------------------------|------------------------------|
| 82 480 ... | 82 480 ... |
| £ Y7 | £ Y7 |
| 1,414.31 02003 ¹⁾ | 1,231.08 02008 ¹⁾ |

1) Not ex-stock

Doosan/Spinner – BMT 45 – Combi tool holder

▲ directly screwed version



IC

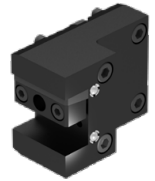
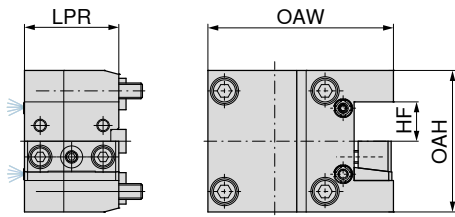
| Adapter | Hole pattern | DCONWS mm | LF mm | OAW mm | OAH mm | LPR mm |
|---------|--------------|--------------|----------|-----------|-----------|-----------|
| BMT 45 | 58 x 58 | 32 | 65 | 67.5 | 75 | 90 |
| BMT 45 | 58 x 58 | 32 | 85 | 67.5 | 75 | 110 |

| |
|------------------------------|
| 82 480 ... |
| £ Y7 |
| 1,087.00 03004 ¹⁾ |
| 1,839.72 03005 ¹⁾ |

1) Not ex-stock

Doosan – BMT 55 – axial square section tool holder

▲ directly screwed version



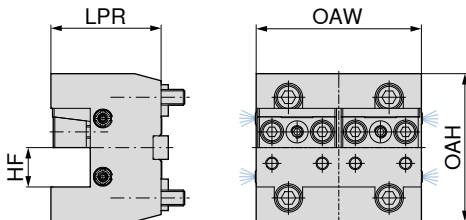
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|----------|-----------|-----------|-----------|
| BMT 55 | 64 x 64 | 25 | 60 | 90 | 118 |

| Left-hand | Left-hand |
|------------------------------|------------------------------|
| 82 481 ... | 82 481 ... |
| £ Y7 | £ Y7 |
| 1,103.83 00001 ¹⁾ | 1,105.06 00005 ¹⁾ |

1) Not ex-stock

Doosan – BMT 55 – radial square section tool holder

▲ directly screwed version



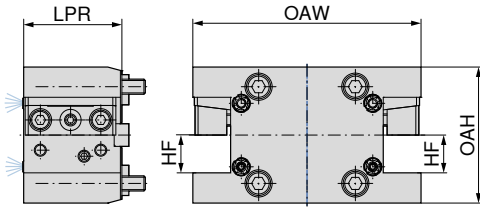
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|----------|-----------|-----------|-----------|
| BMT 55 | 64 x 64 | 25 | 70 | 94 | 105 |
| BMT 55 | 64 x 64 | 25 | 95 | 94 | 105 |

| Left-hand | Left-hand |
|------------------------------|------------------------------|
| 82 481 ... | 82 481 ... |
| £ Y7 | £ Y7 |
| 1,103.83 01002 ¹⁾ | 1,579.06 01006 ¹⁾ |

1) Not ex-stock

Doosan – BMT 55 – multi square section tool holder

▲ directly screwed version



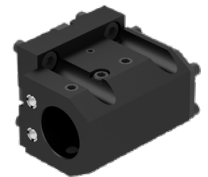
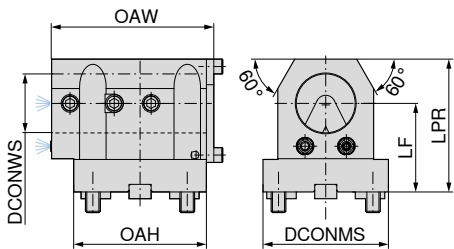
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|----------|-----------|-----------|-----------|
| BMT 55 | 64 x 64 | 25 | 65 | 90 | 151 |
| BMT 55 | 64 x 64 | 25 | 60 | 90 | 151 |

| 82 481 ... | 82 481 ... |
|------------------------------|------------------------------|
| £ Y7 | £ Y7 |
| 1,610.18 02003 ¹⁾ | 1,553.68 02007 ¹⁾ |

1) Not ex-stock

Doosan – BMT 55 – Boring bar holder

▲ directly screwed version



IC

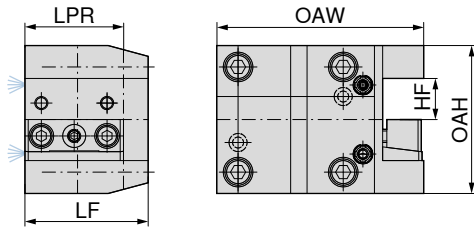
| Adapter | Hole pattern | DCONWS mm | LF mm | DCONMS mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|--------------|----------|--------------|-----------|-----------|-----------|
| BMT55 | 64 x 64 | 40 | 60 | 85 | 90 | 90 | 110 |

| 82 481 ... |
|------------------------------|
| £ Y7 |
| 1,087.00 04004 ¹⁾ |

1) Not ex-stock

EMAG – BMT 55 – axial square section tool holder

▲ directly screwed version



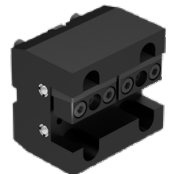
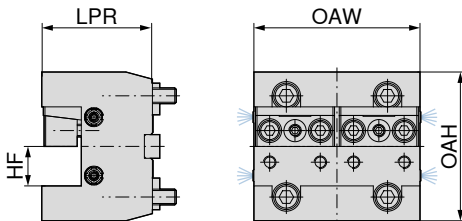
| Adapter | Hole pattern | HF mm | LPR mm | LF mm | OAH mm | OAW mm |
|---------|--------------|----------|-----------|----------|-----------|-----------|
| BMT 55 | 64 X 64 | 25 | 60 | 75 | 90 | 126 |

| Left-hand | Left-hand |
|------------------------------|------------------------------|
| 82 482 ... | 82 482 ... |
| £ Y7 | £ Y7 |
| 1,077.49 00001 ¹⁾ | 1,081.85 00004 ¹⁾ |

1) Not ex-stock

EMAG – BMT 55 – Radial square section tool holder

▲ directly screwed version



IC

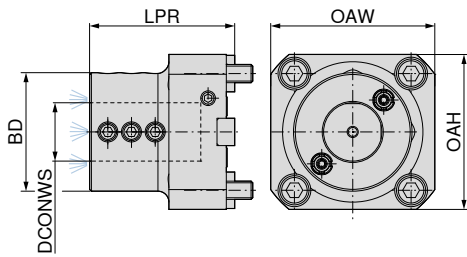
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|----------|-----------|-----------|-----------|
| BMT 55 | 64 x 64 | 25 | 70 | 94 | 105 |

| Left-hand |
|------------------------------|
| 82 482 ... |
| £ Y7 |
| 1,103.83 01002 ¹⁾ |

1) Not ex-stock

EMAG – BMT 55 – Boring bar holder

▲ directly screwed version



IC

82 482 ...

£
Y7

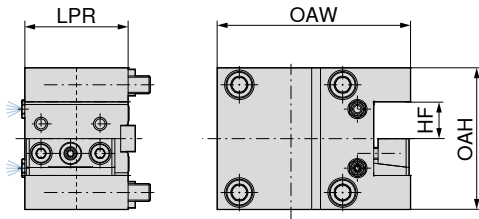
1,317.16 04003¹⁾

| Adapter | Hole pattern | DCONWS mm | BD mm | LPR mm | OAW mm | OAH mm |
|---------|--------------|--------------|----------|-----------|-----------|-----------|
| BMT55 | 64 x 64 | 32 | 65 | 75 | 85 | 90 |

1) Not ex-stock

HAAS/Doosan – BMT 65 – axial square section tool holder

▲ directly screwed version

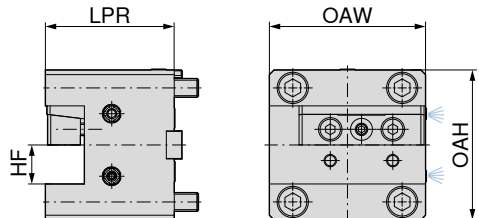


| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm | Left-hand 82 483 ... £ Y7 1,736.86 00001 ¹⁾ | Left-hand 82 483 ... £ Y7 1,320.00 00005 ¹⁾ |
|---------|--------------|----------|-----------|-----------|-----------|--|--|
| BMT 65 | 70 x 73 | 25 | 70 | 96 | 131 | | |
| BMT 65 | 70 x 73 | 25 | 75 | 97 | 131 | | |

1) Not ex-stock

HAAS/Doosan – BMT 65 – radial square section tool holder

▲ directly screwed version

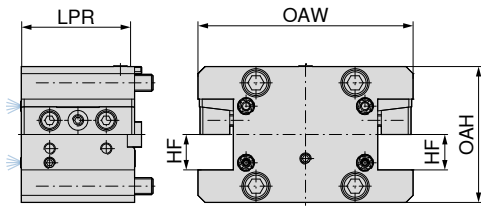


| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm | Right-hand 82 483 ... £ Y7 1,311.14 05002 ¹⁾ | Right-hand 82 483 ... £ Y7 1,288.70 05006 ¹⁾ |
|---------|--------------|----------|-----------|-----------|-----------|---|---|
| BMT 65 | 70 x 73 | 25 | 82.5 | 96 | 100 | | |

1) Not ex-stock

HAAS/Doosan – BMT 65 – multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



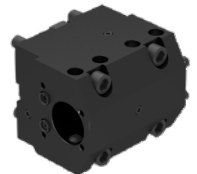
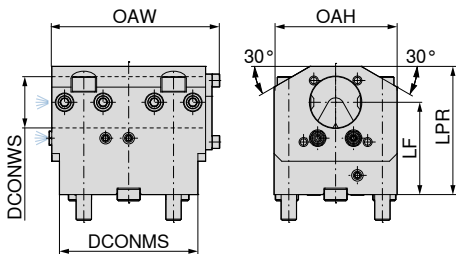
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|-------|--------|--------|--------|
| BMT 65 | 70 x 73 | 25 | 80 | 96 | 152 |

| | |
|------------------------------|------------------------------|
| 82 483 ... | 82 483 ... |
| £ Y7 | £ Y7 |
| 1,690.50 02003 ¹⁾ | 1,625.08 02007 ¹⁾ |

1) Not ex-stock

HAAS/Doosan – BMT 65 – Combi tool holder

- ▲ directly screwed version
- ▲ double-sided version



IC

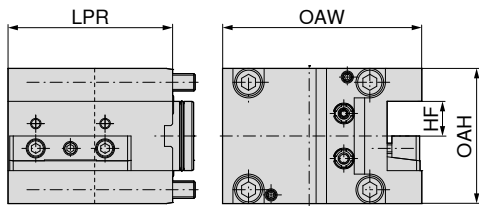
| Adapter | Hole pattern | DCONWS mm | LF mm | OAH mm | LPR mm | DCONMS mm | OAW mm |
|---------|--------------|-----------|-------|--------|--------|-----------|--------|
| BMT 65 | 70 x 73 | 40 | 78 | 96 | 100 | 108 | 125 |

| |
|------------------------------|
| 82 483 ... |
| £ Y7 |
| 2,303.54 03004 ¹⁾ |

1) Not ex-stock

Mori/Seiki – BMT 40 – axial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



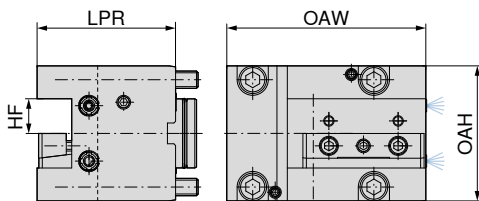
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|-------|--------|--------|--------|
| BMT 40 | 70 x 62 | 20 | 95 | 78 | 115 |

1) Not ex-stock

| Left-hand | Left-hand |
|------------------------------|------------------------------|
| 82 484 ... | 82 484 ... |
| £ Y7 | £ Y7 |
| 1,017.48 00001 ¹⁾ | 1,028.57 00005 ¹⁾ |

Mori/Seiki – BMT 40 – radial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



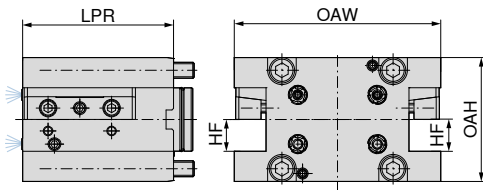
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|-------|--------|--------|--------|
| BMT 40 | 70 x 62 | 20 | 80 | 78 | 115 |

1) Not ex-stock

| Left-hand | Left-hand |
|------------------------------|------------------------------|
| 82 484 ... | 82 484 ... |
| £ Y7 | £ Y7 |
| 1,069.23 01002 ¹⁾ | 1,074.49 01006 ¹⁾ |

Mori/Seiki – BMT 40 – multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



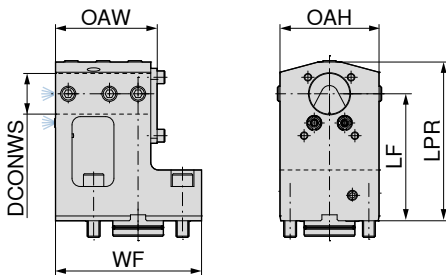
| Adapter | Hole pattern | HF mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|-------|--------|--------|--------|
| BMT 40 | 70 x 62 | 20 | 95 | 78 | 130 |

| | |
|------------------------------|------------------------------|
| 82 484 ... | 82 484 ... |
| £ Y7 | £ Y7 |
| 1,121.29 02003 ¹⁾ | 1,120.52 02007 ¹⁾ |

1) Not ex-stock

Mori/Seiki – BMT 40 – Combi tool holder

- ▲ directly screwed version



IC

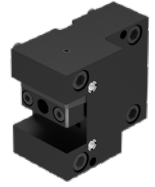
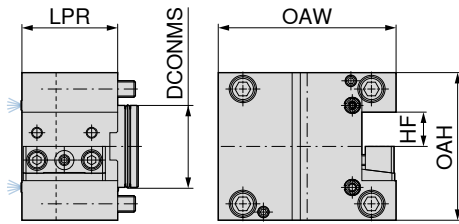
| Adapter | Hole pattern | DCONWS mm | OAH mm | OAW mm | LF mm | WF mm | LPR mm |
|---------|--------------|-----------|--------|--------|-------|-------|--------|
| BMT 40 | 70 x 62 | 32 | 78 | 80 | 100 | 115 | 125 |

| |
|------------------------------|
| 82 484 ... |
| £ Y7 |
| 1,017.48 03004 ¹⁾ |

1) Not ex-stock

Mori/Seiki – BMT 60 – axial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

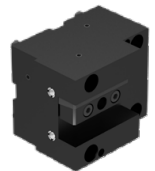
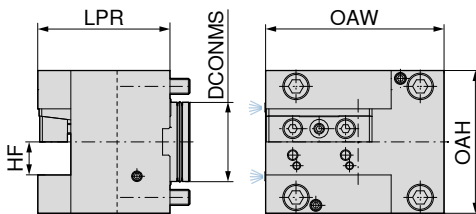


| Adapter | Hole pattern | HF mm | DCONMS mm | LPR mm | OAH mm | OAW mm | Left-hand 82 485 ... | Left-hand 82 485 ... |
|---------|--------------|----------|--------------|-----------|-----------|-----------|---|---|
| BMT 60 | 94 x 84 | 25 | 60 | 70 | 108 | 130 | £ Y7 1,017.48 00001 ¹⁾ | £ Y7 1,028.57 00005 ¹⁾ |

1) Not ex-stock

Mori/Seiki – BMT 60 – radial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

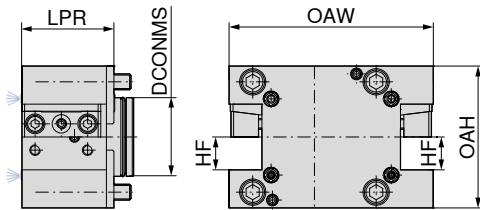


| Adapter | Hole pattern | HF mm | DCONMS mm | LPR mm | OAH mm | OAW mm | Left-hand 82 485 ... | Left-hand 82 485 ... |
|---------|--------------|----------|--------------|-----------|-----------|-----------|---|---|
| BMT 60 | 94 x 84 | 25 | 60 | 100 | 108 | 135 | £ Y7 1,069.23 01002 ¹⁾ | £ Y7 1,074.49 01006 ¹⁾ |

1) Not ex-stock

Mori/Seiki – BMT 60 – multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



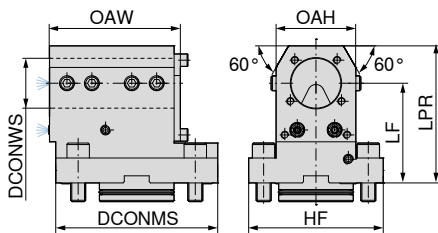
| Adapter | Hole pattern | HF mm | DCONMS mm | LPR mm | OAH mm | OAW mm |
|---------|--------------|-------|-----------|--------|--------|--------|
| BMT 60 | 94 x 84 | 25 | 60 | 70 | 108 | 155.5 |

| | |
|------------------------------|------------------------------|
| 82 485 ... | 82 485 ... |
| £ Y7 | £ Y7 |
| 1,224.80 02003 ¹⁾ | 1,212.47 02007 ¹⁾ |

1) Not ex-stock

Mori/Seiki – BMT 60 – Combi tool holder

- ▲ directly screwed version



IC

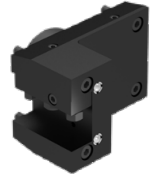
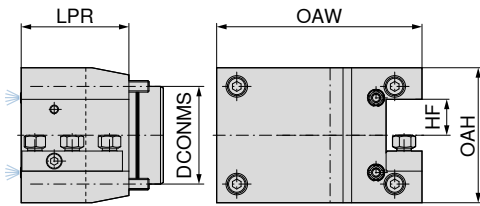
| Adapter | Hole pattern | DCONWS mm | OAH mm | LF mm | OAW mm | HF mm | LPR mm | DCONMS mm |
|---------|--------------|-----------|--------|-------|--------|-------|--------|-----------|
| BMT 60 | 94 x 84 | 40 | 64 | 80 | 105 | 108 | 110 | 130 |

| |
|------------------------------|
| 82 485 ... |
| £ Y7 |
| 1,017.48 03004 ¹⁾ |

1) Not ex-stock

Mazak – BMT 68 – axial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

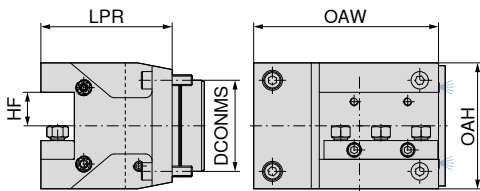


| Adapter | Hole pattern | HF mm | DCONMS mm | LPR mm | OAH mm | OAW mm | Left-hand | | Left-hand | |
|---------|--------------|----------|--------------|-----------|-----------|-----------|-----------|----------------------------|-----------|----------------------------|
| BMT 68 | 110 x 68 | 25 | 68 | 75 | 94 | 143 | £ | 82 486 ... | £ | 82 486 ... |
| | | | | | | | Y7 | 974.30 00001 ¹⁾ | Y7 | 990.40 00005 ¹⁾ |

1) Not ex-stock

Mazak – BMT 68 – radial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

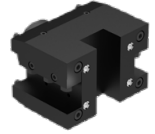
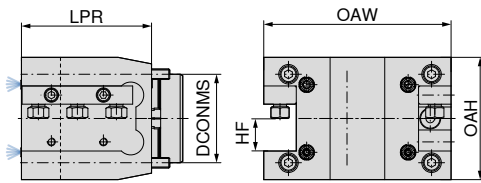


| Adapter | Hole pattern | HF mm | DCONMS mm | OAH mm | LPR mm | OAW mm | Left-hand | | Left-hand | |
|---------|--------------|----------|--------------|-----------|-----------|-----------|-----------|----------------------------|-----------|------------------------------|
| BMT 68 | 110 x 68 | 25 | 68 | 94 | 98 | 143 | £ | 82 486 ... | £ | 82 486 ... |
| | | | | | | | Y7 | 990.18 01002 ¹⁾ | Y7 | 1,004.41 01006 ¹⁾ |

1) Not ex-stock

EMAG – BMT 68 – multi square section tool holder

▲ directly screwed version



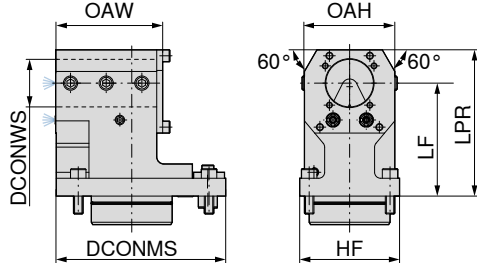
| Adapter | Hole pattern | HF mm | DCONMS mm | OAH mm | LPR mm | OAW mm |
|---------|--------------|-------|-----------|--------|--------|--------|
| BMT 68 | 110 x 68 | 25 | 68 | 94 | 100 | 144 |

| | |
|------------------------------|------------------------------|
| 82 486 ... | 82 486 ... |
| £ Y7 | £ Y7 |
| 1,559.39 02003 ¹⁾ | 1,508.73 02007 ¹⁾ |

1) Not ex-stock

Mazak – BMT 68 – combi tool holder

▲ directly screwed version



IC

| Adapter | Hole pattern | DCONWS mm | OAH mm | HF mm | OAW mm | LF mm | LPR mm | DCONMS mm |
|---------|--------------|-----------|--------|-------|--------|-------|--------|-----------|
| BMT 68 | 110 x 68 | 40 | 76 | 84 | 90 | 95 | 123 | 142.5 |

| |
|----------------------------|
| 82 486 ... |
| £ Y7 |
| 952.71 03004 ¹⁾ |

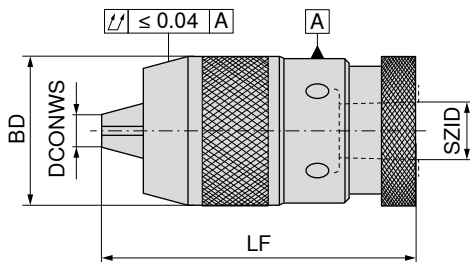
1) Not ex-stock

Drill chuck

- ▲ For manual and key clamping
- ▲ Through-hardened and ground

Scope of supply:

Holder with clamping key



| SZID | DCONWS mm | LF mm | BD mm | 83 636 ... | |
|------|--------------|----------|----------|------------|-----|
| | | | | £ | |
| | | | | Y8 | |
| B12 | 0 - 8 | 73 | 35 | 186.31 | 012 |
| B12 | 0 - 10 | 92 | 43 | 220.30 | 112 |
| B16 | 1 - 13 | 106 | 50 | 264.05 | 016 |
| B16 | 3 - 16 | 110 | 57 | 215.58 | 116 |
| B18 | 3 - 16 | 110 | 57 | 281.15 | 018 |

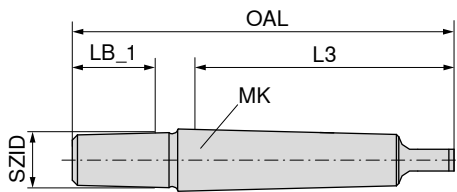


Spare parts
DCONWS

| DCONWS | 83 302 ... | |
|--------|------------|-----|
| | £ | |
| | Y8 | |
| 0 - 10 | 21.05 | 010 |
| 0 - 8 | 19.75 | 008 |
| 1 - 13 | 17.37 | 013 |
| 3 - 16 | 20.63 | 016 |

Drill chuck adapter DIN 238

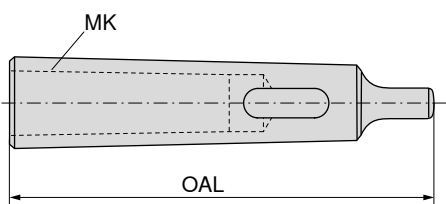
▲ Through-hardened and ground



| Adapter | SZID | I ₃ mm | LB_1 mm | OAL mm | 83 642 ... | |
|---------|------|----------------------|------------|-----------|------------|-----|
| | | | | | £ | |
| | | | | | Y8 | |
| MK1 | B12 | 62.0 | 18.5 | 89.0 | 17.22 | 120 |
| MK1 | B16 | 62.0 | 24.0 | 97.0 | 17.22 | 160 |
| MK1 | B18 | 62.0 | 32.0 | 106.0 | 17.22 | 180 |
| MK2 | B12 | 75.0 | 18.5 | 106.5 | 17.22 | 121 |
| MK2 | B16 | 75.0 | 24.0 | 110.5 | 17.22 | 161 |
| MK2 | B18 | 75.0 | 32.0 | 117.5 | 17.59 | 181 |
| MK3 | B12 | 94.0 | 18.5 | 125.0 | 17.22 | 122 |
| MK3 | B16 | 94.0 | 24.0 | 134.0 | 17.22 | 162 |
| MK3 | B18 | 94.0 | 32.0 | 141.0 | 23.38 | 182 |
| MK4 | B16 | 117.5 | 24.0 | 159.0 | 39.55 | 163 |
| MK4 | B18 | 117.5 | 32.0 | 168.0 | 39.55 | 183 |
| MK5 | B16 | 149.5 | 24.0 | 196.0 | 149.16 | 164 |
| MK5 | B18 | 149.5 | 32.0 | 204.5 | 149.16 | 184 |

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



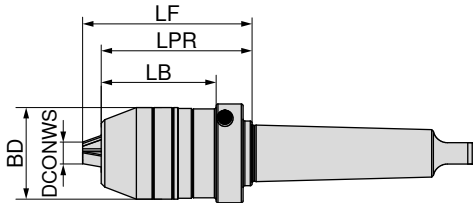
| Adapter | d _i | OAL mm | 83 644 ... | |
|---------|----------------|-----------|------------|-----|
| | | | £ | |
| | | | Y8 | |
| MK1 | MK0 | 80 | 29.21 | 010 |
| MK2 | MK1 | 92 | 31.33 | 020 |
| MK3 | MK1 | 99 | 33.61 | 130 |
| MK3 | MK2 | 112 | 35.89 | 030 |
| MK4 | MK1 | 124 | 44.59 | 240 |
| MK4 | MK2 | 124 | 44.59 | 140 |
| MK4 | MK3 | 140 | 65.07 | 040 |
| MK5 | MK2 | 156 | 85.03 | 250 |
| MK5 | MK3 | 156 | 89.57 | 150 |
| MK5 | MK4 | 171 | 93.70 | 050 |

Short drill chuck – NC 2010

- ▲ bidirectional
- ▲ Torque moment = 12 Nm
- ▲ with Morse taper

Scope of supply:

Holder with clamping key



| Adapter | DCONWS mm | BD mm | LB mm | LPR mm | LF mm |
|---------|--------------|----------|----------|-----------|----------|
| MK3 | 0,5 - 13 | 48.5 | 64 | 84 | 93.0 |
| MK3 | 2,5 - 16 | 51.0 | 64 | 84 | 94.5 |
| MK4 | 2,5 - 16 | 51.0 | 64 | 84 | 94.5 |

84 314 ...

£

Y8

557.28 313

574.98 316

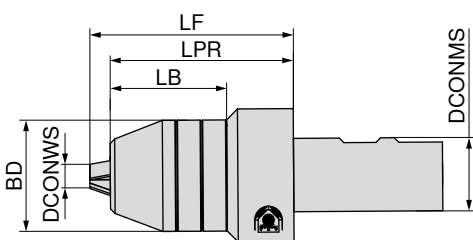
615.92 416

Short drill chuck – NC 2010

- ▲ bidirectional
- ▲ Torque moment = 12 Nm
- ▲ with cylindrical shank

Scope of supply:

Holder with clamping key



G 6,3 n_{max} 10000

84 311 ...

£

Y8

615.73 213

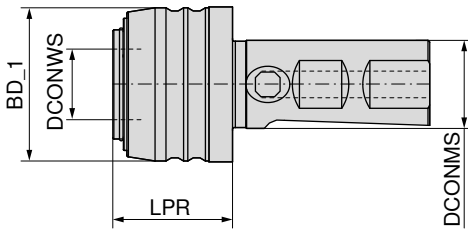
615.73 313

777.16 316

| DCONMS mm | DCONWS mm | BD mm | LB mm | LPR mm | LF mm |
|--------------|--------------|----------|----------|-----------|----------|
| 25 | 0,5 - 13 | 48.5 | 50.9 | 80 | 89.0 |
| 32 | 0,5 - 13 | 48.5 | 50.9 | 80 | 89.0 |
| 32 | 2,5 - 16 | 51.0 | 50.9 | 80 | 90.5 |

Synchro quick change tapping chuck with minimum length compensation

- ▲ For collets according to DIN 6499
- ▲ With length compensation under tension and under compression (LZD)
- ▲ $p_{max.} = 50$ bar



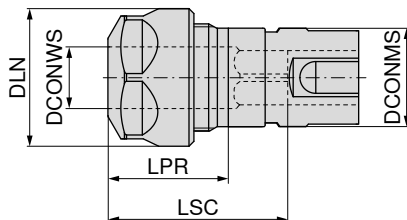
| DCONWS mm | cutting range | SZID | LPR mm | BD_1 mm | DCONMS mm | LZD± mm | 83 641 ... | |
|-----------|---------------|------|--------|---------|-----------|-----------|------------|-----|
| 20 | M3 - M12 | 1 | 35 | 43.5 | 25 | 1,0 / 0,2 | £ Y8 | |
| 32 | M6 - M20 | 2 | 56 | 60.0 | 25 | 1,0 / 0,2 | 286.12 | 012 |
| | | | | | | | 326.12 | 020 |

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



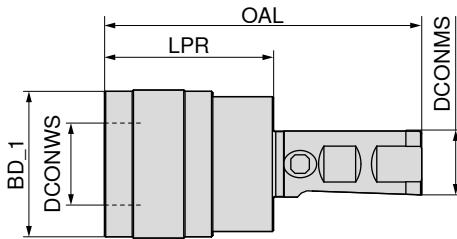
| SZID | DCONWS mm | cutting range | LPR mm | DLN mm | LSC mm | for collet | DCONMS mm | 83 608 ... | |
|------|-----------|---------------|--------|--------|--------|-------------|-----------|------------|-------------------|
| 1 | 2 - 10 | M3 - M12 | 24 | 28 | 42 | 426E (ER16) | 20 | £ Y8 | |
| 2 | 2 - 16 | M6 - M20 | 28 | 42 | 59 | 430E (ER25) | 32 | 236.04 | 012 ¹⁾ |
| | | | | | | | | 274.95 | 020 |

1) with 6 position lock nut

| Spare parts for Article no. | Lock nut | | Lock nut IK | | Lock nut | | Y clamping key | | | | | | |
|-----------------------------|----------|----|----------------|-------|----------|---------|----------------|-----|---------|-------|-----|-------|-----|
| | £ | W7 | £ | Y8 | £ | W7 | £ | Y8 | | | | | |
| 83 608 012 | | | M22x1,5 - SW25 | 32.23 | 044 | M22x1,5 | 82.98 | 054 | M22x1,5 | 25.64 | 054 | 28.20 | 116 |
| 83 608 020 | | | | | | M32x1,5 | 96.66 | 055 | M32x1,5 | 26.70 | 055 | 28.20 | 125 |

Quick change tap chuck with length compensation

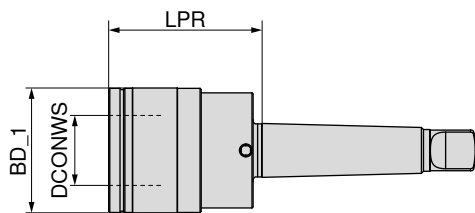
- ▲ With cylindrical shank
- ▲ With length compensation under tension and compression (LZD)
- ▲ Quick change adapters



| DCONWS mm | cutting range | SZID | LPR mm | BD_1 mm | DCONWS mm | OAL mm | LZD± mm | 83 648 ... | |
|--------------|---------------|------|-----------|------------|--------------|-----------|------------|------------|-----|
| 20 | M3 - M12 | 01 | 41 | 38 | 19 | 91 | 9 | £ | |
| 20 | M6 - M20 | 02 | 63 | 55 | 31 | 138 | 15 | Y8 | |
| | | | | | | | | 423.74 | 112 |
| | | | | | | | | 580.69 | 120 |
| 25 | M3 - M12 | 01 | 41 | 38 | 19 | 97 | 9 | 423.74 | 212 |
| 25 | M6 - M20 | 02 | 63 | 55 | 31 | 119 | 15 | 523.33 | 220 |
| 32 | M3 - M12 | 01 | 41 | 38 | 19 | 102 | 9 | 432.57 | 312 |
| 32 | M6 - M20 | 02 | 63 | 55 | 31 | 124 | 15 | 541.42 | 320 |

DIN 228B – Quick change tap chuck with length compensation

- ▲ With Morse taper shank
- ▲ With length compensation under tension and compression (LZD)



| Adapter | cutting range | SZID | LPR mm | BD_1 mm | DCONWS mm | LZD± mm | 83 646 ... | | |
|---------|---------------|------|-----------|------------|--------------|------------|------------|-----|--|
| MK 2 | M3 - M12 | 01 | 46 | 38 | 19 | 9 | £ | | |
| MK 3 | M3 - M12 | 01 | 46 | 38 | 19 | 9 | Y8 | | |
| MK 3 | M6 - M20 | 02 | 69 | 55 | 31 | 15 | 369.15 | 212 | |
| MK 4 | M6 - M20 | 02 | 70 | 55 | 31 | 15 | 363.02 | 312 | |
| | | | | | | | 453.99 | 320 | |
| | | | | | | | 453.99 | 420 | |

Accessories

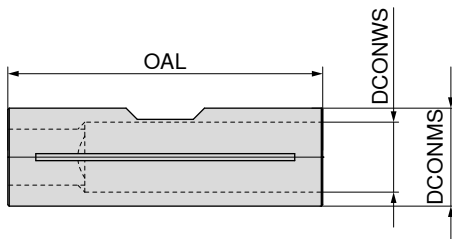


Collet

→ 282, 284–286

Clamping sleeve for taps in Weldon chucks

- ▲ For machines with rigid tapping
- ▲ For safe clamping of taps

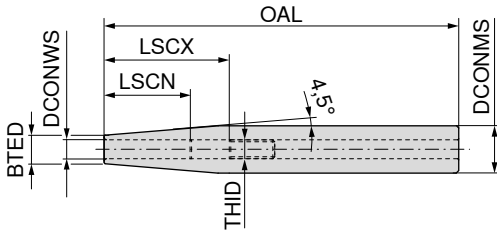


| DCONWS _{H7} | DCONMS _{f6} | OAL | 80 699 ... | |
|----------------------|----------------------|-----|------------|-------|
| mm | mm | mm | £ | |
| 3.5 | 6 | 26 | Y7 | |
| 4.0 | 8 | 32 | 90.42 | 03500 |
| 4.5 | 8 | 26 | 87.62 | 04000 |
| 6.0 | 10 | 30 | 87.62 | 04500 |
| 7.0 | 10 | 31 | 84.68 | 06000 |
| 8.0 | 12 | 38 | 84.68 | 07000 |
| 9.0 | 12 | 38 | 84.68 | 08000 |
| 10.0 | 14 | 42 | 84.68 | 09000 |
| 11.0 | 14 | 42 | 84.68 | 10000 |
| 12.0 | 16 | 44 | 84.68 | 11000 |
| 14.0 | 18 | 45 | 84.68 | 12000 |
| 16.0 | 20 | 46 | 84.68 | 14000 |
| | | | 84.68 | 16000 |

Shrink fit extension

- ▲ For solid carbide and HSS shanks with h6 tolerance or better
- ▲ DRVS = Key size of the adjustment screw

TG



| DCONMS _{h6} | DCONWS | BTED | OAL | LSCX | LSCN | THID | DRVS | 84 310 ... |
|----------------------|--------|------|-----|------|------|-------|------|------------|
| mm | mm | mm | mm | mm | mm | mm | mm | £ Y8 |
| 12 | 3 | 8 | 150 | | | | | 255.32 003 |
| 12 | 4 | 8 | 150 | | | | | 255.32 004 |
| 12 | 5 | 10 | 150 | | | | | 255.32 005 |
| 12 | 6 | 10 | 150 | 36 | 26 | M5 | 2.5 | 255.32 006 |
| 16 | 3 | 10 | 150 | | | | | 255.32 103 |
| 16 | 4 | 10 | 150 | | | | | 255.32 104 |
| 16 | 5 | 10 | 150 | | | | | 255.32 105 |
| 16 | 6 | 10 | 150 | 36 | 26 | M5 | 2.5 | 255.32 106 |
| 16 | 8 | 12 | 150 | 36 | 26 | M6 | 3.0 | 255.32 108 |
| 20 | 3 | 10 | 150 | | | | | 255.32 203 |
| 20 | 4 | 10 | 150 | | | | | 255.32 204 |
| 20 | 5 | 10 | 150 | | | | | 255.32 205 |
| 20 | 6 | 10 | 150 | 36 | 26 | M5 | 2.5 | 255.32 206 |
| 20 | 8 | 12 | 150 | 36 | 26 | M6 | 3.0 | 255.32 208 |
| 20 | 10 | 14 | 150 | 42 | 32 | M8x1 | 3.0 | 255.32 210 |
| 20 | 12 | 16 | 150 | 47 | 37 | M10x1 | 5.0 | 255.32 212 |
| 25 | 3 | 10 | 150 | | | | | 255.32 303 |
| 25 | 4 | 10 | 150 | | | | | 255.32 304 |
| 25 | 5 | 15 | 150 | | | | | 255.32 305 |
| 25 | 6 | 20 | 150 | 36 | 26 | M5 | 2.5 | 255.32 306 |
| 25 | 8 | 20 | 150 | 36 | 26 | M6 | 3.0 | 255.32 308 |
| 25 | 10 | 20 | 150 | 42 | 32 | M8x1 | 3.0 | 255.32 310 |
| 25 | 12 | 20 | 150 | 47 | 37 | M10x1 | 5.0 | 255.32 312 |
| 25 | 14 | 20 | 150 | 47 | 37 | M10x1 | 5.0 | 255.32 314 |
| 25 | 16 | 22 | 150 | 50 | 40 | M10x1 | 5.0 | 255.32 316 |
| 32 | 6 | 20 | 150 | 36 | 26 | M5 | 2.5 | 255.32 406 |
| 32 | 8 | 20 | 150 | 36 | 26 | M6 | 3.0 | 255.32 408 |
| 32 | 10 | 24 | 150 | 42 | 32 | M8x1 | 3.0 | 255.32 410 |
| 32 | 12 | 24 | 150 | 47 | 37 | M10x1 | 5.0 | 255.32 412 |
| 32 | 14 | 27 | 150 | 47 | 37 | M10x1 | 5.0 | 255.32 414 |
| 32 | 16 | 27 | 150 | 50 | 40 | M10x1 | 5.0 | 255.32 416 |
| 32 | 18 | 27 | 150 | 50 | 40 | M10x1 | 5.0 | 255.32 418 |
| 32 | 20 | 27 | 150 | 52 | 42 | M10x1 | 5.0 | 255.32 420 |

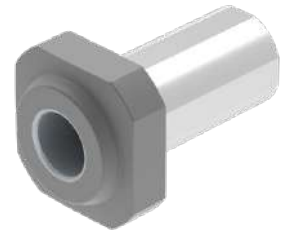
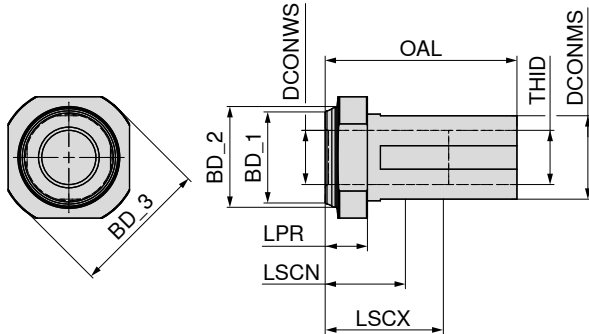
Observe the minimum clamping depth on → Page 306.

Hydraulic chuck with cylindrical shank

- ▲ For the hydraulic clamping of cylindrical tool shanks tol. h6, boring bars and cylindrical tool holders tol. h7, g6 in fixed base holders
- ▲ One screw for locking the boring bar
- ▲ With length setting screw – can also be removed, to enable the boring bar to be slid through
- ▲ High-precision clamping with a repeatability of 3 µm

Scope of supply:

Base body with backstop screw and pressure screw



| DCONMS | DCONWS | BD_1 | BD_2 | BD_3 | LPR | OAL | LSCX | LSCN | THID |
|--------|--------|------|------|------|------|------|------|------|-------|
| mm | mm | mm | mm | mm | mm | mm | mm | mm | |
| 32 | 16 | 38 | 41 | 59 | 19.5 | 78.5 | 51 | 41 | M22x1 |
| 32 | 20 | 38 | 41 | 59 | 19.5 | 78.5 | 51 | 41 | M22x1 |
| 40 | 16 | 43 | 46 | 64 | 19.5 | 88.5 | 51 | 41 | M22x1 |
| 40 | 20 | 43 | 46 | 64 | 19.5 | 88.5 | 51 | 41 | M22x1 |
| 40 | 25 | 43 | 46 | 64 | 19.5 | 88.5 | 57 | 47 | M27x1 |

83 402 ...

| £ | |
|--------|-------|
| Y8 | |
| 672.01 | 31699 |
| 672.01 | 32099 |
| 693.04 | 41699 |
| 693.04 | 42099 |
| 693.04 | 42599 |

Spare parts
DCONWS

| |
|---------|
| 16 - 20 |
| 25 |



Stop screw IK

83 950 ...

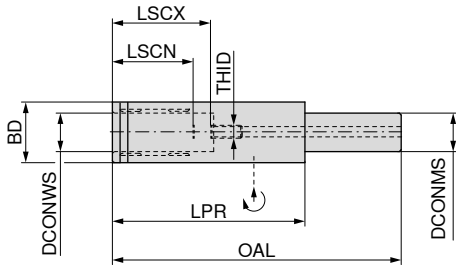
| £ | |
|-------|-------|
| Y7 | |
| 49.09 | 48500 |
| 77.46 | 48600 |

Hydraulic expansion extension especially for Hydraulic Chucks

▲ For solid carbide and HSS shanks with h6 tolerance or better

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

84 313 ...

| DCONMS | DCONWS | BD | LPR | OAL | LSCX | LSCN | THID | | £ | |
|--------|--------|------|-----|-----|------|------|-------|--------|-----|--|
| mm | mm | mm | mm | mm | mm | mm | mm | | Y8 | |
| 20 | 12 | 25.0 | 100 | 150 | 46 | 36 | M6 | 892.29 | 112 | |
| 20 | 20 | 31.5 | 100 | 150 | 51 | 41 | M10x1 | 892.29 | 120 | |
| 32 | 20 | 31.5 | 90 | 150 | 51 | 41 | M10x1 | 892.29 | 132 | |
| 32 | 20 | 31.5 | 90 | 200 | 51 | 41 | M10x1 | 922.46 | 232 | |

Observe the minimum clamping depth on → **Page 306.**



83 950 ...

Spare parts for Article no.

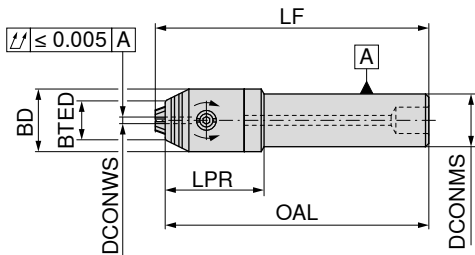
| Article no. | Part description | £ | |
|-------------|------------------|-------|-----|
| | | Y7 | |
| 84 313 112 | M6x12,5 - SW3 | 23.98 | 419 |
| 84 313 120 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 84 313 132 | M10x1x13,5 - SW5 | 23.98 | 421 |
| 84 313 232 | M10x1x13,5 - SW5 | 23.98 | 421 |

Micro-precision collet chuck

- ▲ bidirectional
- ▲ for speeds up to 60,000 1/min.

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm



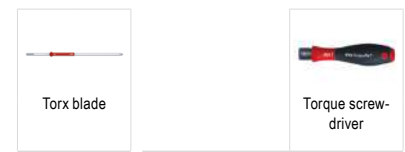
G 2,5 n_{max} 18000

84 315 ...

| DCONMS mm | DCONWS mm | LPR mm | OAL mm | LF mm | BD mm | BTED mm | TQX Nm | £ | |
|--------------|--------------|-----------|-----------|----------|----------|------------|-----------|----------|-----|
| 16 | 0,2 - 3,4 | 30 | 80 | 83 | 19 | 12 | 2 | 1,098.19 | 161 |
| 16 | 0,2 - 3,4 | 30 | 100 | 103 | 19 | 12 | 2 | 1,156.14 | 162 |
| 16 | 0,2 - 3,4 | 30 | 160 | 163 | 19 | 12 | 2 | 1,265.98 | 163 |
| 20 | 0,2 - 3,4 | 28 | 80 | 83 | 19 | 12 | 2 | 1,098.19 | 201 |
| 20 | 0,2 - 3,4 | 28 | 100 | 103 | 19 | 12 | 2 | 1,156.14 | 202 |
| 20 | 0,2 - 3,4 | 28 | 160 | 163 | 19 | 12 | 2 | 1,265.98 | 203 |

**Spare parts
for Article no.**

| Article no. | £ | | £ | |
|-------------|-------|-----|--------|-----|
| 84 315 161 | 11.39 | 152 | 1.8 Nm | 018 |
| 84 315 162 | 11.39 | 152 | 1.8 Nm | 018 |
| 84 315 163 | 11.39 | 152 | 1.8 Nm | 018 |
| 84 315 201 | 11.39 | 152 | 1.8 Nm | 018 |
| 84 315 202 | 11.39 | 152 | 1.8 Nm | 018 |
| 84 315 203 | 11.39 | 152 | 1.8 Nm | 018 |



80 950 ...

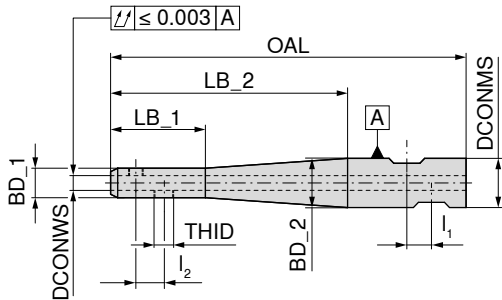
80 021 ...

Micro-extension

▲ for shanks with lateral clamping flat to DIN 6535 HB / 1835 B

Scope of supply:

Holder with shank clamping screw



80 642 ...

| DCONWS | BD_1 | LB_1 | LB_2 | OAL | DCONMS | BD_2 | l ₁ | l ₂ | THID | TQX | £ | |
|--------|------|------|------|-----|--------|------|----------------|----------------|-----------|-----|--------|---------------------|
| mm | mm | mm | mm | mm | mm | mm | mm | mm | | Nm | Y7 | |
| 6 | 12 | 40 | 40 | 85 | 12 | 12 | 10 | 10 | M6 x 0,5 | 7 | 267.08 | 00600 |
| 6 | 12 | 40 | 100 | 150 | 20 | 20 | 10 | 10 | M6 x 0,5 | 7 | 325.82 | 10600 |
| 8 | 15 | 40 | 40 | 88 | 16 | 15 | 10 | 10 | M8 x 0,75 | 8 | 264.41 | 00800 |
| 8 | 15 | 40 | 100 | 150 | 20 | 20 | 10 | 10 | M8 x 0,75 | 8 | 317.81 | 10800 |
| 10 | 18 | 40 | 40 | 90 | 20 | 18 | 10 | 10 | M10 x 1 | 12 | 264.41 | 01000 |
| 10 | 18 | 40 | 100 | 150 | 20 | 20 | 10 | 10 | M10 x 1 | 12 | 317.81 | 11000 |
| 12 | 21 | 40 | 40 | 90 | 20 | 21 | 10 | 10 | M12 x 1 | 15 | 264.41 | 01200 |
| 12 | 21 | 40 | 100 | 150 | 20 | 21 | 10 | 10 | M12 x 1 | 15 | 317.81 | 11200 |
| 14 | 23 | 40 | 40 | 90 | 20 | 23 | 10 | 10 | M12 x 1 | 15 | 269.75 | 01400 |
| 14 | 23 | 40 | 100 | 150 | 20 | 23 | 10 | 10 | M12 x 1 | 15 | 325.82 | 11400 |
| 16 | 26 | 40 | 50 | 106 | 25 | 26 | 10 | 12 | M14 x 1 | 18 | 275.07 | 01600 ¹⁾ |
| 16 | 26 | 40 | 100 | 156 | 25 | 26 | 10 | 12 | M14 x 1 | 18 | 344.54 | 11600 ¹⁾ |
| 18 | 28 | 40 | 50 | 106 | 25 | 28 | 10 | 12 | M14 x 1 | 18 | 288.42 | 01800 ¹⁾ |
| 18 | 28 | 40 | 100 | 156 | 25 | 28 | 10 | 12 | M14 x 1 | 18 | 352.52 | 11800 ¹⁾ |
| 20 | 31 | 40 | 50 | 110 | 32 | 31 | 10 | 14 | M16 x 1 | 20 | 285.79 | 02000 ¹⁾ |
| 20 | 31 | 40 | 100 | 160 | 32 | 31 | 10 | 14 | M16 x 1 | 20 | 347.20 | 12000 ¹⁾ |

1) only pre-balanced design



Clamping screw

80 950 ...

Spare parts

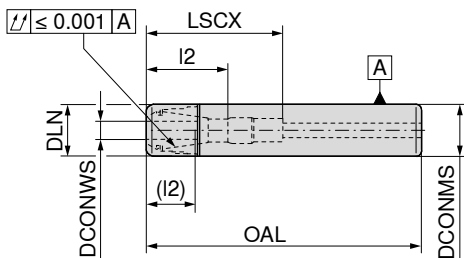
| DCONWS | £ | |
|---------|-------|-----------------|
| | Y7 | |
| 6 | 18.82 | 21700 M6X0,5X3 |
| 8 | 18.82 | 21800 M8x0,75x4 |
| 10 | 18.82 | 21900 M10x1x5 |
| 12 - 14 | 19.36 | 30000 M12x1x5 |
| 16 - 18 | 19.88 | 31000 M14x1x6,5 |
| 20 | 20.46 | 32000 M16x1x6,5 |

ER-Mini precision collet chuck – Centro-P

- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping

Scope of supply:

Holder **without nut, without backstop**



| | | | | | | | 84 456 ... | |
|--------|--------|-----|-----|------|-------------------|--------------|------------|-------|
| | | | | | | | £ | |
| | | | | | | | Y8 | |
| DCONMS | DCONWS | DLN | OAL | LSCX | l_2 (l_2) | for collet | | |
| mm | mm | mm | mm | mm | mm | | | |
| 10 | 1 - 5 | 10 | 80 | 16 | | 4004E (ER08) | 261.50 | 00400 |
| 10 | 1 - 5 | 10 | 150 | 16 | | 4004E (ER08) | 412.84 | 005 |
| 10 | 1 - 5 | 10 | 200 | 16 | | 4004E (ER08) | 396.76 | 006 |
| 12 | 1 - 5 | 10 | 120 | 16 | | 4004E (ER08) | 280.73 | 11000 |
| 12 | 1 - 5 | 10 | 160 | 16 | | 4004E (ER08) | 292.28 | 11200 |
| 12 | 1 - 5 | 10 | 200 | 16 | | 4004E (ER08) | 357.64 | 11400 |
| 16 | 1 - 7 | 16 | 150 | 68 | 18 - 36 (12 - 26) | 4008E (ER11) | 303.86 | 007 |
| 16 | 1 - 7 | 16 | 200 | 68 | 18 - 36 (12 - 26) | 4008E (ER11) | 314.66 | 008 |
| 16 | 1 - 10 | 22 | 150 | 68 | 28 - 48 (16 - 35) | 426E (ER16) | 303.86 | 010 |
| 16 | 1 - 10 | 22 | 200 | 68 | 28 - 48 (16 - 35) | 426E (ER16) | 290.34 | 12000 |
| 20 | 1 - 10 | 22 | 150 | 68 | 28 - 48 (16 - 35) | 426E (ER16) | 269.10 | 102 |
| 20 | 1 - 10 | 22 | 200 | 68 | 28 - 48 (16 - 35) | 426E (ER16) | 314.66 | 104 |

i LSCX = Clamping depth without back stop screw for shanks
 l_2 = with back stop screw 1, dimension in brackets (l_2) = with back stop screw 2
 dimension OAL when using tightening nuts with seals 4 mm longer

| Spare parts for collet | Mini lock nut IK | | Mini lock nut | | Stop screw 2 | | Stop screw 1 | |
|------------------------|------------------|-----|---------------|-----|--------------|-----|--------------|-----|
| | £ | | £ | | £ | | £ | |
| 4004E (ER08) | 84 950 ... | | 84 950 ... | | 83 950 ... | | 83 950 ... | |
| 4008E (ER11) | 93.35 | 035 | 115.19 | 040 | 54.64 | 340 | 36.39 | 336 |
| 426E (ER16) | | | 76.59 | 034 | 57.33 | 341 | 38.40 | 337 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

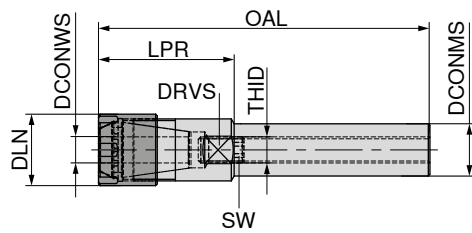
Accessories

| | | | |
|----------------|--------|----------|-----------------|
| | | | |
| ER collet | Device | Roll key | Roll key device |
| → 262-269, 273 | → 279 | → 280 | → 280 |

i The transferable torques can be found on → **Page 305.**

ER collet chuck with mini clamping nut

▲ with cylindrical shank



| DCONMS _{h6} mm | DCONWS mm | OAL mm | LPR mm | DLN mm | THID | DRVS mm | SW mm | for collet |
|----------------------------|--------------|-----------|-----------|-----------|----------|------------|----------|--------------|
| 8 | 1 - 5 | 81 | 26 | 12 | | 9 | | 4004E (ER08) |
| 12 | 1 - 5 | 157 | 20 | 12 | M5x0,8 | 10 | 2.5 | 4004E (ER08) |
| 16 | 1 - 7 | 185 | 25 | 16 | M7,5x0,5 | 14 | 3.0 | 4008E (ER11) |
| 16 | 1 - 10 | 117 | 37 | 22 | M11x1 | 17 | 5.0 | 426E (ER16) |
| 16 | 1 - 10 | 199 | 39 | 22 | M8x1,25 | 17 | 4.0 | 426E (ER16) |
| 20 | 1 - 10 | 168 | 28 | 22 | M11x1 | 17 | 5.0 | 426E (ER16) |
| 25 | 1 - 13 | 168 | 28 | 28 | M14x1 | 22 | 5.0 | 428E (ER20) |
| 25 | 1 - 16 | 189 | 39 | 35 | M18x1 | 27 | 5.0 | 430E (ER25) |

83 453 ...

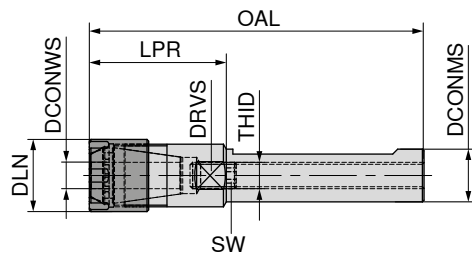
£
Y8

| | |
|--------|-------------------|
| 156.92 | 081 ¹⁾ |
| 331.88 | 122 |
| 326.06 | 163 |
| 331.88 | 164 |
| 326.06 | 165 |
| 233.86 | 204 |
| 270.56 | 254 |
| 340.83 | 256 |

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat



| DCONMS _{h6} mm | DCONWS mm | OAL mm | LPR mm | DLN mm | THID | DRVS mm | SW mm | for collet |
|----------------------------|--------------|-----------|-----------|-----------|-------|------------|----------|-------------|
| 20 | 1 - 10 | 168 | 28 | 22 | M11x1 | 17 | 5 | 426E (ER16) |
| 20 | 1 - 13 | 138 | 38 | 28 | M11x1 | 22 | 5 | 428E (ER20) |
| 20 | 1 - 16 | 146 | 46 | 35 | M14x1 | 27 | 5 | 430E (ER25) |
| 25 | 1 - 13 | 168 | 28 | 28 | M14x1 | 22 | 5 | 428E (ER20) |
| 25 | 1 - 16 | 189 | 39 | 35 | M18x1 | 27 | 5 | 430E (ER25) |

83 454 ...

£
Y8

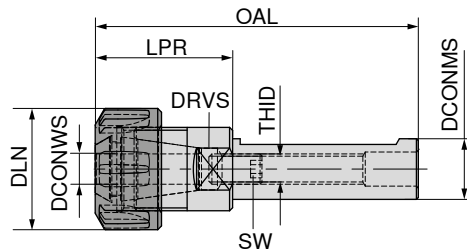
| | |
|--------|-----|
| 233.86 | 204 |
| 168.14 | 206 |
| 196.06 | 208 |
| 270.56 | 254 |
| 340.83 | 256 |

Spare parts for ER collet chuck with mini lock nut

| Spare parts for collet | 83 950 ... | | 62 950 ... | | 83 950 ... | |
|------------------------|------------|-----|------------|-----|---------------|----------|
| | £ | | £ | | £ | |
| 4004E (ER08) | 42.35 | 099 | 71.00 | 067 | | |
| 4004E (ER08) | 42.35 | 099 | 71.00 | 067 | M5x0,8 SW 2,5 | 3.18 003 |
| 4008E (ER11) | 42.35 | 100 | 63.77 | 065 | M7,5x0,5 SW 3 | 3.71 004 |
| 426E (ER16) | 47.39 | 101 | 44.48 | 066 | M11x1 SW 5 | 4.22 006 |
| 426E (ER16) | 47.39 | 101 | 44.48 | 066 | M8x1,25 SW 4 | 4.06 005 |
| 428E (ER20) | 44.47 | 102 | 70.62 | 068 | M14x1 SW 5 | 4.42 007 |
| 430E (ER25) | 44.47 | 103 | 70.62 | 069 | M18x1 SW 5 | 4.75 008 |

ER Collet Chuck

▲ with cylindrical shank and clamping flat



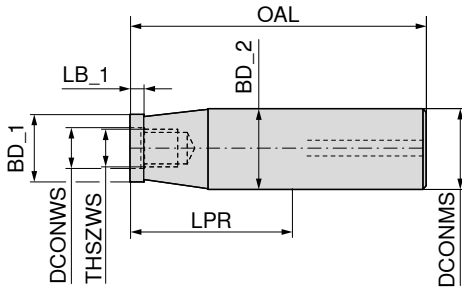
| DCONMS _{h6} | DCONWS | OAL | LPR | DLN | THID | DRVS | SW | for collet | 83 455 ... | |
|----------------------|--------|-----|-----|-----|---------|------|----|-------------|------------|-----|
| mm | mm | mm | mm | mm | mm | mm | mm | | £ | |
| 40 | 2 - 20 | 100 | 35 | 50 | M22x1,5 | 36 | 5 | 470E (ER32) | 199.22 | 401 |
| 40 | 2 - 20 | 160 | 35 | 50 | M22x1,5 | 36 | 5 | 470E (ER32) | 245.97 | 402 |
| 40 | 3 - 30 | 139 | 59 | 63 | M28x1,5 | 40 | 6 | 472E (ER40) | 228.38 | 405 |

| Spare parts for collet | 62 950 ... | | 83 357 ... | | 83 950 ... | | 83 950 ... | | |
|------------------------|------------|-----|------------|-----|-----------------|------|------------|-----------------|----------|
| | £ | | £ | | £ | | £ | | |
| 470E (ER32) | 27.37 | 056 | 41.07 | 132 | | | | | |
| 472E (ER40) | 28.36 | 057 | 46.52 | 140 | M28x1,5x25 SW 6 | 7.57 | 096 | M22x1,5x20 SW 5 | 6.14 095 |

Accessories

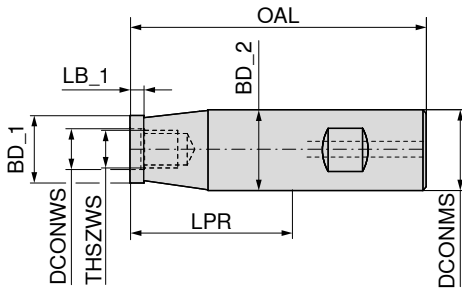


Cylindrical milling bar for cutters with threaded end



| | | | | | | | | 56 727 ... | |
|----------------------------|--------|--------------|-----|------------|------------|------------|-----------|------------|-----|
| DCONWS _{h6} mm | THSZWS | DCONWS mm | LPR | BD_1 mm | LB_1 mm | BD_2 mm | OAL mm | £ WA | |
| 12 | M5 | 5.5 | 20 | 9.5 | 7.8 | 11.5 | 65 | 142.75 | 052 |
| 12 | M6 | 6.5 | 20 | 11.5 | 7.8 | 11.5 | 65 | 132.32 | 060 |
| 12 | M6 | 6.5 | 40 | 11.5 | 7.8 | 11.5 | 85 | 142.74 | 062 |
| 16 | M8 | 8.5 | 20 | 13.8 | 7.8 | 15.8 | 68 | 147.70 | 081 |
| 16 | M8 | 8.5 | 40 | 13.8 | 7.8 | 15.8 | 88 | 158.80 | 082 |
| 20 | M10 | 10.5 | 25 | 18.0 | 7.8 | 19.8 | 75 | 153.87 | 101 |
| 20 | M10 | 10.5 | 45 | 18.0 | 7.8 | 19.8 | 95 | 166.36 | 102 |
| 25 | M12 | 12.5 | 50 | 21.0 | 7.8 | 24.8 | 106 | 173.73 | 122 |
| 32 | M16 | 17.0 | 50 | 29.0 | 12.0 | 31.8 | 110 | 187.41 | 162 |

Milling bar for cutters with threaded end (Weldon)



| | | | | | | | | 56 729 ... | |
|----------------------------|--------|--------------|-----|------------|------------|------------|-----------|------------|-----|
| DCONWS _{h6} mm | THSZWS | DCONWS mm | LPR | BD_1 mm | LB_1 mm | BD_2 mm | OAL mm | £ WA | |
| 12 | M6 | 6.5 | 20 | 11.5 | 7.8 | 11.5 | 65 | 132.32 | 060 |
| 12 | M6 | 6.5 | 40 | 11.5 | 7.8 | 11.5 | 85 | 142.74 | 062 |
| 16 | M8 | 8.5 | 20 | 13.8 | 12.0 | 15.8 | 68 | 147.70 | 081 |
| 16 | M8 | 8.5 | 40 | 13.8 | 8.0 | 15.8 | 88 | 158.80 | 082 |
| 20 | M10 | 10.5 | 25 | 18.0 | 8.0 | 19.8 | 75 | 153.87 | 101 |
| 20 | M10 | 10.5 | 45 | 18.0 | 12.0 | 19.8 | 95 | 166.36 | 102 |
| 25 | M12 | 12.5 | 30 | 21.0 | 12.0 | 24.9 | 86 | 160.21 | 121 |
| 25 | M12 | 12.5 | 50 | 21.0 | 8.0 | 24.9 | 106 | 173.73 | 122 |
| 32 | M16 | 17.0 | 50 | 29.0 | 12.0 | 31.8 | 110 | 187.41 | 162 |

Screw-in adapter with cylindrical shank

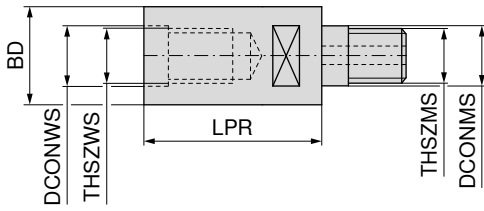
▲ Vibration-damped



| DCONMS _{h6} mm | THSZWS | DCONWS mm | LPR mm | BD_1 mm | LB_1 mm | BD_2 mm | OAL mm | Solid carbide | | Densimet | |
|----------------------------|--------|--------------|-----------|------------|------------|------------|-----------|-----------------------|-------------------|-----------------------|-----|
| | | | | | | | | 56 743 ... £ WC | | 56 744 ... £ WC | |
| 12 | M5 | 5.5 | 40 | 9.5 | 9 | 11.3 | 85 | | | 528.80 | 052 |
| 12 | M5 | 5.5 | 60 | 9.5 | 9 | 11.3 | 105 | | | 571.53 | 053 |
| 12 | M5 | 5.5 | 80 | 9.5 | 9 | 11.3 | 125 | | | 635.64 | 054 |
| 12 | M6 | 6.5 | 20 | 11.5 | | 11.5 | 65 | 696.41 | 060 | | |
| 12 | M6 | 6.5 | 40 | 11.5 | | 11.5 | 85 | 743.71 | 062 | | |
| 12 | M6 | 6.5 | 60 | 11.5 | | 11.5 | 105 | 824.51 | 063 | | |
| 12 | M6 | 6.5 | 80 | 11.5 | | 11.5 | 125 | 902.49 | 064 | | |
| 12 | M6 | 6.5 | 100 | 11.5 | | 11.5 | 145 | 980.49 | 065 | | |
| 16 | M8 | 8.5 | 40 | 14.2 | 9 | 15.3 | 88 | 788.91 | 082 | 648.97 | 082 |
| 16 | M8 | 8.5 | 60 | 14.2 | 9 | 15.3 | 108 | 871.91 | 083 | 702.41 | 083 |
| 16 | M8 | 8.5 | 80 | 14.2 | 9 | 15.3 | 128 | 939.77 | 084 | 769.18 | 084 |
| 16 | M8 | 8.5 | 100 | 14.2 | 9 | 15.3 | 148 | 924.78 | 085 | 846.63 | 085 |
| 16 | M8 | 8.5 | 120 | 14.2 | 9 | 15.3 | 168 | 988.81 | 086 | 932.09 | 086 |
| 16 | M8 | 8.5 | 150 | 14.2 | 9 | 15.3 | 198 | | | 1,175.11 | 087 |
| 20 | M10 | 10.5 | 60 | 18.5 | 9 | 19.3 | 110 | 1,002.94 | 103 | 819.91 | 103 |
| 20 | M10 | 10.5 | 80 | 18.5 | 9 | 19.3 | 130 | 1,022.27 | 104 | 913.42 | 104 |
| 20 | M10 | 10.5 | 100 | 18.5 | 9 | 19.3 | 150 | 1,226.64 | 105 | 1,020.23 | 105 |
| 20 | M10 | 10.5 | 120 | 18.5 | 9 | 19.3 | 170 | 1,264.57 | 106 | 1,132.39 | 106 |
| 20 | M10 | 10.5 | 140 | 18.5 | 9 | 19.3 | 190 | 1,409.45 | 107 | 1,319.36 | 107 |
| 25 | M12 | 12.5 | 75 | 23.0 | 9 | 24.3 | 131 | | | 1,231.21 | 124 |
| 25 | M12 | 12.5 | 80 | 23.0 | 9 | 24.3 | 136 | 1,091.90 | 124 | | |
| 25 | M12 | 12.5 | 100 | 23.0 | 9 | 24.3 | 156 | 1,404.11 | 125 | 1,362.08 | 125 |
| 25 | M12 | 12.5 | 120 | 23.0 | 9 | 24.3 | 176 | 1,579.37 | 126 | | |
| 25 | M12 | 12.5 | 125 | 23.0 | 9 | 24.3 | 181 | | | 1,490.27 | 126 |
| 25 | M12 | 12.5 | 140 | 23.0 | 9 | 24.3 | 196 | 1,824.48 | 127 | | |
| 25 | M12 | 12.5 | 150 | 23.0 | 9 | 24.3 | 206 | | | 1,674.57 | 127 |
| 25 | M12 | 12.5 | 160 | 23.0 | 9 | 24.3 | 216 | 2,069.59 | 128 | | |
| 25 | M12 | 12.5 | 175 | 23.0 | 9 | 24.3 | 231 | | | 1,896.24 | 128 |
| 32 | M16 | 17.0 | 100 | 29.0 | 9 | 31.5 | 160 | 2,325.86 | 165 ¹⁾ | | |
| 32 | M16 | 17.0 | 150 | 29.0 | 9 | 31.5 | 210 | 2,821.67 | 166 ¹⁾ | | |
| 32 | M16 | 17.0 | 200 | 29.0 | 9 | 31.5 | 260 | 3,401.04 | 167 ¹⁾ | | |
| 32 | M16 | 17.0 | 250 | 29.0 | 9 | 31.5 | 310 | 4,086.29 | 168 ¹⁾ | | |
| 32 | M16 | 17.0 | 300 | 29.0 | 9 | 31.5 | 360 | 4,671.23 | 169 ¹⁾ | | |

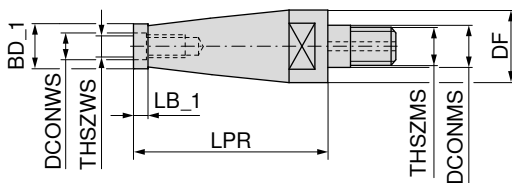
1) On request

Extensions for milling cutters with threaded end



| THSZWS | THSZMS | DCONWS | DCONMS | LPR | BD | 56 733 ... | |
|--------|--------|--------|--------|-----|------|------------|-----|
| | | mm | mm | mm | mm | £ | |
| M8 | M8 | 8.5 | 8.5 | 40 | 13.8 | 160.21 | 081 |
| M8 | M8 | 8.5 | 8.5 | 60 | 13.8 | 197.34 | 082 |
| M10 | M10 | 10.5 | 10.5 | 40 | 18.0 | 166.36 | 101 |
| M10 | M10 | 10.5 | 10.5 | 60 | 18.0 | 203.49 | 102 |
| M12 | M12 | 12.5 | 12.5 | 40 | 21.0 | 172.51 | 121 |
| M12 | M12 | 12.5 | 12.5 | 60 | 21.0 | 209.64 | 122 |
| M16 | M16 | 17.0 | 17.0 | 40 | 29.0 | 178.68 | 161 |
| M16 | M16 | 17.0 | 17.0 | 60 | 29.0 | 216.01 | 162 |

Reductions for milling cutters with threaded end



| THSZWS | THSZMS | DCONMS | DCONWS | LPR | BD_1 | DF | LB_1 | 56 735 ... | |
|--------|--------|--------|--------|-----|------|------|------|------------|-----|
| | | mm | mm | mm | mm | mm | mm | £ | |
| M6 | M8 | 8.5 | 6.5 | 20 | 9.5 | 13.8 | 7.8 | 141.63 | 060 |
| M8 | M10 | 10.5 | 8.5 | 40 | 13.8 | 18.0 | 7.8 | 166.36 | 081 |
| M8 | M12 | 12.5 | 8.5 | 60 | 13.8 | 21.0 | 7.8 | 179.86 | 082 |
| M10 | M12 | 12.5 | 10.5 | 40 | 18.0 | 21.0 | 7.8 | 172.51 | 101 |
| M10 | M16 | 17.0 | 10.5 | 60 | 18.0 | 29.0 | 7.8 | 209.64 | 102 |
| M12 | M16 | 17.0 | 12.5 | 40 | 21.0 | 29.0 | 7.8 | 172.51 | 121 |

MultiChange – Programme Overview

The "MultiChange" interchangeable head system enables an extremely fast and problem free tool change. Provides quick changeover and concentricity with the highest stability at the same time. For a multitude of applications, the suitable interchangeable heads are available in the following chapters.

| Exchangeable heads | |
|---|---------------------------------|
| <p>→ Chapter 2, Solid carbide drilling</p> <p>Solid Carbide NC Spot Drills</p> <p>Ø 8, 10, 12, 16, 20 mm NOF 2</p> <p>SIG 90° SIG 120° SIG 142°</p> | <p>Page No. 2 105</p> |
| <p>→ Chapter 4, Reaming and countersinking</p> <p>Replaceable reaming heads</p> <p>Ø 8,00 – 30,20 mm</p> <p>Through hole</p> <p>Ø 12,20 – 30,20 mm</p> <p>Blind hole</p> | <p>Page No. 4 18 + 4 19</p> |
| <p>→ Chapter 14, Solid carbide milling cutters</p> <p>Solid carbide shoulder mills</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 3+4</p> <p>Type PCR-UNI Type PCR-ALU Type N</p> <p>Solid carbide torus bull nose milling cutters</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 3+4</p> <p>Type W Type N</p> <p>Solid carbide rough and finish milling cutters</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 4+6</p> <p>Type NF</p> <p>Solid carbide finish milling cutters</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 6</p> <p>Type N</p> <p>Solid carbide ball-nosed end mills</p> <p>Ø 10, 12, 16, 20 mm / ZEFP 4</p> <p>Type N</p> <p>Solid carbide high-feed cutters</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 6</p> <p>Type N</p> <p>Solid carbide quarter round cutter</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 6</p> <p>Type N</p> <p>Solid carbide deburring cutters</p> <p>Ø 10, 12, 16, 20 mm / ZEFP 4+6</p> <p>Type N Type N</p> | <p>Page No. 14 197 – 14 201</p> |
| <p>NOF / ZEFP = Number of cutting edges</p> | |

| Tool holder | |
|---|--|
| <p>→ Catalogue – Clamping technology, Chapter 16 Accessories</p> <p>Page No. 16 253 – 16 255</p> <p>extra short / OAL 60 – 90 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>short / OAL 85 – 120 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>Tapered 87° / Solid carbide Cylindrical* / Solid carbide</p> <p>medium / OAL 110 – 150 mm</p> <p>Tapered 87° / Solid carbide</p> <p>Cylindrical* / Solid carbide</p> <p>long / OAL 150 – 200 mm</p> <p>Tapered 87° / Solid carbide</p> <p>Cylindrical* / Steel</p> <p>Cylindrical* / Solid carbide</p> <p>extra long / OAL 200 – 250 mm</p> <p>Cylindrical* / Steel</p> <p>Cylindrical* / Solid carbide</p> | <p>* only conditionally suitable for milling</p> |

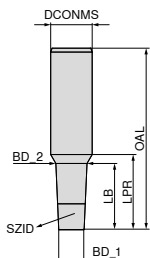
MultiChange – Holders

▲ Tapered 87°

▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel



Steel



Solid carbide



Solid carbide



Solid carbide

| | 84 001 ... | | 84 004 ... | | 84 005 ... | | 84 007 ... | | 84 010 ... | |
|----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|
| | £ | Y8 | £ | Y8 | £ | Y8 | £ | Y8 | £ | Y8 |
| 06 | 187.68 | 080 | | | | | | | | |
| 06 | | | 222.22 | 080 | 376.30 | 080 | 416.43 | 080 | | |
| 06 | | | | | | | | | 479.85 | 080 |
| 06 | | | | | | | | | | |
| 08 | 190.74 | 100 | | | | | | | | |
| 08 | | | 227.82 | 100 | 410.39 | 100 | 460.81 | 100 | | |
| 08 | | | | | | | | | 536.34 | 100 |
| 08 | | | | | | | | | | |
| 10 | 211.46 | 120 | | | | | | | | |
| 10 | | | 232.58 | 120 | 410.39 | 120 | 588.55 | 120 | | |
| 10 | | | | | | | | | 633.88 | 120 |
| 10 | | | | | | | | | | |
| 12 | 226.98 | 160 | | | | | | | | |
| 12 | | | 280.04 | 160 | 576.94 | 160 | 689.13 | 160 | | |
| 12 | | | | | | | | | 707.00 | 160 |
| 12 | | | | | | | | | | |
| 16 | 266.27 | 200 | | | | | | | | |
| 16 | | | 327.51 | 200 | 707.22 | 200 | 799.57 | 200 | | |
| 16 | | | | | | | | | 897.07 | 200 |

Assembly instructions can be found on → **Page 287**

Accessories



insertion key

→ 287



Adjustable wrench

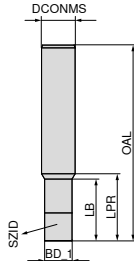
→ 287

MultiChange – Holders

- ▲ cylindrical
- ▲ only conditionally suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel

Steel

Steel

Steel



| SZID | BD_1 mm | DCONMS mm | OAL mm | LB mm | LPR mm |
|------|------------|--------------|-----------|----------|-----------|
| 06 | 7.8 | 10 | 60 | 17 | 19 |
| 06 | 7.8 | 10 | 85 | 42 | 44 |
| 06 | 7.8 | 10 | 150 | 107 | 109 |
| 08 | 9.8 | 12 | 70 | 22 | 24 |
| 08 | 9.8 | 12 | 90 | 42 | 44 |
| 08 | 9.8 | 12 | 150 | 102 | 104 |
| 10 | 11.8 | 16 | 70 | 17 | 21 |
| 10 | 11.8 | 16 | 90 | 37 | 41 |
| 10 | 11.8 | 16 | 150 | 97 | 101 |
| 12 | 15.8 | 16 | 80 | 30 | 31 |
| 12 | 15.8 | 16 | 105 | 55 | 56 |
| 12 | 15.8 | 16 | 150 | 100 | 101 |
| 12 | 15.8 | 16 | 200 | 150 | 151 |
| 16 | 19.8 | 25 | 90 | 26 | 31 |
| 16 | 19.8 | 25 | 120 | 56 | 61 |
| 16 | 19.8 | 25 | 200 | 136 | 141 |
| 16 | 19.8 | 25 | 250 | 186 | 191 |

| 84 000 ... | 84 002 ... | 84 008 ... | 84 011 ... | |
|------------|------------|------------|------------|-----|
| £ Y8 | £ Y8 | £ Y8 | £ Y8 | |
| 170.45 | 080 | | | |
| | 199.99 | 080 | | |
| | | 280.04 | 080 | |
| 173.26 | 100 | | | |
| | 204.96 | 100 | | |
| | | 286.95 | 100 | |
| 192.23 | 120 | | | |
| | 209.29 | 120 | | |
| | | 293.01 | 120 | |
| 206.46 | 160 | | | |
| | 252.00 | 160 | | |
| | | 352.96 | 160 | |
| | | | 639.51 | 160 |
| 242.08 | 200 | | | |
| | 294.70 | 200 | | |
| | | 412.51 | 200 | |
| | | | 710.68 | 200 |

Assembly instructions can be found on → **Page 287**

Accessories

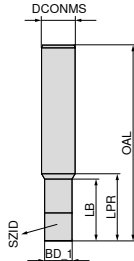
| | |
|---------------|-------------------|
| | |
| insertion key | Adjustable wrench |
| → 287 | → 287 |

MultiChange – Holders

- ▲ cylindrical
- ▲ only conditionally suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Solid carbide

Solid carbide

Solid carbide

Solid carbide



| SZID | BD_1 mm | DCONMS mm | OAL mm | LB mm | LPR mm |
|------|------------|--------------|-----------|----------|-----------|
| 06 | 7.8 | 10 | 85 | 42 | 44 |
| 06 | 7.8 | 10 | 110 | 67 | 69 |
| 06 | 7.8 | 10 | 150 | 107 | 109 |
| 08 | 9.8 | 12 | 90 | 42 | 44 |
| 08 | 9.8 | 12 | 110 | 62 | 64 |
| 08 | 9.8 | 12 | 150 | 102 | 104 |
| 10 | 11.8 | 16 | 90 | 37 | 41 |
| 10 | 11.8 | 16 | 110 | 57 | 61 |
| 10 | 11.8 | 16 | 150 | 97 | 101 |
| 12 | 15.8 | 16 | 105 | 55 | 56 |
| 12 | 15.8 | 16 | 130 | 80 | 81 |
| 12 | 15.8 | 16 | 150 | 100 | 101 |
| 12 | 15.8 | 16 | 200 | 150 | 151 |
| 16 | 19.8 | 25 | 120 | 56 | 61 |
| 16 | 19.8 | 25 | 150 | 86 | 91 |
| 16 | 19.8 | 25 | 200 | 136 | 141 |
| 16 | 19.8 | 25 | 250 | 186 | 191 |

| 84 003 ... | 84 006 ... | 84 009 ... | 84 012 ... |
|------------|------------|------------|------------|
| £ Y8 | £ Y8 | £ Y8 | £ Y8 |
| 376.30 | 080 | | |
| | 416.43 | 080 | |
| | | 479.85 | 080 |
| 398.68 | 100 | | |
| | 434.11 | 100 | |
| | | 509.16 | 100 |
| 410.39 | 120 | | |
| | 460.81 | 120 | |
| | | 536.34 | 120 |
| 446.59 | 160 | | |
| | 609.52 | 160 | |
| | | 691.66 | 160 |
| | | | 913.07 |
| 707.22 | 200 | | |
| | 799.57 | 200 | |
| | | 897.07 | 200 |
| | | | 1,382.09 |
| | | | 200 |

Assembly instructions can be found on → **Page 287**

Accessories

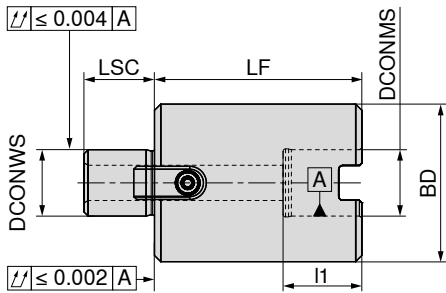
| | |
|---------------|-------------------|
| | |
| insertion key | Adjustable wrench |
| → 287 | → 287 |

Extension for Shell mill arbors

▲ Variable applications through usage of one or two extensions (max. 2 x 50 mm possible)

Scope of supply:

Holder without clamping screw



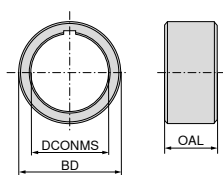
| | | | | | | 82 648 ... | |
|----------------------|----------------------|----|----|-----|----------------|------------|-----|
| | | | | | | £ | |
| | | | | | | Y8/3B | |
| DCONWS _{H5} | DCONMS _{H5} | LF | BD | LSC | I ₁ | | |
| mm | mm | mm | mm | mm | mm | | |
| 16 | 16 | 50 | 38 | 17 | 19 | 145.58 | 050 |
| 16 | 16 | 75 | 38 | 17 | 19 | 146.60 | 075 |
| 22 | 22 | 50 | 48 | 19 | 21 | 149.08 | 150 |
| 22 | 22 | 75 | 48 | 19 | 21 | 150.52 | 175 |
| 27 | 27 | 50 | 58 | 21 | 23 | 156.08 | 250 |
| 27 | 27 | 75 | 58 | 21 | 23 | 158.97 | 275 |
| 32 | 32 | 50 | 78 | 24 | 26 | 169.26 | 350 |
| 32 | 32 | 75 | 78 | 24 | 26 | 175.26 | 375 |
| 40 | 40 | 50 | 88 | 27 | 29 | 210.04 | 450 |
| 40 | 40 | 75 | 88 | 27 | 29 | 218.26 | 475 |



| 83 950 ... | | | 83 950 ... | | | 82 649 ... | | | 82 649 ... | | |
|-----------------|-------|----------|-----------------|-----------|---------|-----------------|---------|-----------|-----------------|--|--|
| Spare parts | | | Spare parts | | | Spare parts | | | Spare parts | | |
| for Article no. | | | for Article no. | | | for Article no. | | | for Article no. | | |
| £ | | | £ | | | £ | | | £ | | |
| Y8/3B | | | Y8/3B | | | Y8/3B | | | Y8/3B | | |
| 82 648 050 | M3x8 | 1.23 296 | 8x9x17,5 | 17.35 120 | M8x125 | 8.24 001 | M8x80 | 5.07 050 | | | |
| 82 648 075 | M3x8 | 1.23 296 | 8x9x17,5 | 17.35 120 | | | M8x100 | 7.04 075 | | | |
| 82 648 150 | M4x12 | 1.61 297 | 10x11x20,5 | 17.91 121 | M10x125 | 12.20 100 | M10x80 | 8.05 150 | | | |
| 82 648 175 | M4x12 | 1.61 297 | 10x11x20,5 | 17.91 121 | | | M10x100 | 10.63 175 | | | |
| 82 648 250 | M5x12 | 1.66 136 | 12x13x24,3 | 19.75 122 | M12x125 | 18.67 200 | M12x80 | 11.77 250 | | | |
| 82 648 275 | M5x12 | 1.66 136 | 12x13x24,3 | 19.75 122 | | | M12x100 | 15.90 275 | | | |
| 82 648 350 | M5x20 | 1.75 137 | 14x21x21,2 | 19.96 123 | M16x125 | 27.40 300 | M16x80 | 17.30 350 | | | |
| 82 648 375 | M5x20 | 1.75 137 | 14x21x21,2 | 19.96 123 | | | M16x100 | 24.10 375 | | | |
| 82 648 450 | M6x16 | 1.99 138 | 15,9x16,3x19,5 | 26.57 295 | | | | | | | |
| 82 648 475 | M6x16 | 1.99 138 | 15,9x16,3x19,5 | 26.57 295 | | | | | | | |

1 When using two extension pieces (max. 2 x 50 mm) please use a tightening bolt with a length of 125 mm.

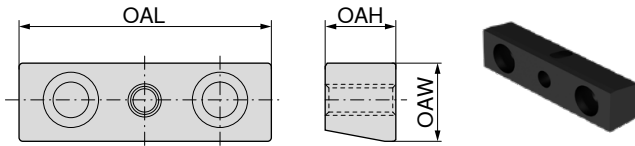
Milling Adapter Rings DIN 2084 Form B



| | | | 83 385 ... | |
|--------------|----------|-----------|------------|-----|
| DCONMS mm | BD mm | OAL mm | £ Y8 | |
| 13 | 22 | 2 | 14.53 | 013 |
| | 22 | 3 | 14.60 | 113 |
| | 22 | 4 | 15.21 | 213 |
| | 22 | 5 | 15.71 | 313 |
| | 22 | 6 | 16.50 | 413 |
| | 22 | 10 | 18.38 | 513 |
| 16 | 26 | 2 | 12.87 | 016 |
| | 26 | 3 | 12.87 | 116 |
| | 26 | 4 | 13.06 | 216 |
| | 26 | 5 | 13.55 | 316 |
| | 26 | 6 | 14.00 | 416 |
| | 26 | 10 | 19.87 | 516 |
| | 26 | 20 | 25.30 | 616 |
| | 26 | 30 | 31.50 | 716 |
| 22 | 34 | 2 | 13.25 | 022 |
| | 34 | 3 | 13.55 | 122 |
| | 34 | 4 | 13.73 | 222 |
| | 34 | 5 | 15.03 | 322 |
| | 34 | 6 | 16.95 | 422 |
| | 34 | 10 | 23.31 | 522 |
| | 34 | 20 | 29.22 | 622 |
| | 34 | 30 | 38.75 | 722 |
| 27 | 41 | 2 | 14.60 | 027 |
| | 41 | 3 | 14.98 | 127 |
| | 41 | 4 | 16.50 | 227 |
| | 41 | 5 | 17.12 | 327 |
| | 41 | 6 | 19.20 | 427 |
| | 41 | 10 | 23.83 | 527 |
| | 41 | 20 | 32.09 | 627 |
| | 41 | 30 | 42.92 | 727 |
| 32 | 47 | 2 | 16.29 | 032 |
| | 47 | 3 | 17.32 | 132 |
| | 47 | 4 | 18.82 | 232 |
| | 47 | 5 | 20.38 | 332 |
| | 47 | 6 | 21.58 | 432 |
| | 47 | 10 | 26.30 | 532 |
| | 47 | 20 | 39.73 | 632 |
| | 47 | 30 | 48.27 | 732 |
| 40 | 55 | 2 | 18.95 | 040 |
| | 55 | 3 | 21.05 | 140 |
| | 55 | 4 | 23.21 | 240 |
| | 55 | 5 | 25.30 | 340 |
| | 55 | 6 | 27.26 | 440 |
| | 55 | 10 | 36.54 | 540 |
| | 55 | 20 | 50.28 | 640 |
| | 55 | 30 | 62.08 | 740 |

Spare parts for VDI holders with DirectCooling

Clamping rail



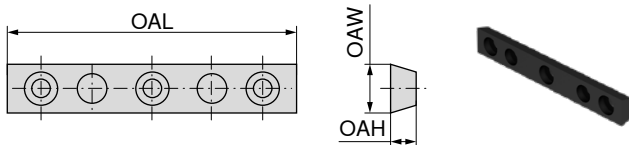
| | | | 82 250 ... | |
|------|------|------|------------|-------|
| OAL | OAW | OAH | £ | |
| mm | mm | mm | Y8 | |
| 53.0 | 12.7 | 11.5 | 22.26 | 05300 |
| 54.0 | 16.0 | 15.0 | 22.26 | 05400 |
| 67.5 | 16.0 | 15.0 | 27.94 | 06750 |
| 68.0 | 21.0 | 19.0 | 27.94 | 06800 |
| 83.0 | 20.5 | 19.0 | 33.51 | 08300 |
| 90.0 | 20.5 | 19.0 | 39.79 | 09000 |

Screw for ball-shaped spray nozzle



| | | 82 950 ... | |
|-------|--|------------|-------|
| THOD | | £ | |
| | | Y8 | |
| M3x10 | | 4.36 | 31000 |
| M4x10 | | 4.36 | 31300 |
| M5x12 | | 5.57 | 31100 |
| M6x12 | | 6.77 | 31200 |

Clamping wedge



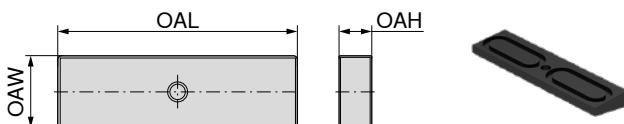
| | | | 82 250 ... | |
|-----|-----|-----|------------|-------|
| OAL | OAW | OAH | £ | |
| mm | mm | mm | Y8 | |
| 70 | 14 | 7.3 | 27.94 | 07000 |
| 85 | 14 | 7.3 | 33.51 | 08500 |
| 100 | 14 | 7.3 | 39.79 | 10000 |

Ball-shaped spray nozzle



| | | 82 950 ... | |
|------|----|------------|-------|
| THID | BD | £ | |
| | mm | Y8 | |
| M5 | 8 | 11.12 | 30600 |
| M6 | 10 | 13.91 | 30900 |
| M6 | 12 | 16.69 | 30700 |
| M6 | 14 | 19.96 | 30800 |

Levelling plates



| | | | 82 250 ... | |
|------|-----|-----|------------|-------|
| OAL | OAW | OAH | £ | |
| mm | mm | mm | Y8 | |
| 53.0 | 14 | 6.1 | 44.63 | 15300 |
| 67.5 | 18 | 6.3 | 55.76 | 16750 |
| 83.0 | 22 | 7.5 | 67.72 | 18300 |
| 90.0 | 22 | 7.5 | 78.12 | 19000 |

Spare parts for VDI holders with DirectCooling

O ring for clamping wedge



| Size | 82 950 ... | |
|----------|------------|-------|
| | £ | Y8 |
| Ø13 x Ø2 | 8.36 | 32600 |
| Ø18 x Ø2 | 11.12 | 32700 |
| Ø22 x Ø2 | 11.12 | 32800 |

Screw plug for ball-shaped spray nozzle



| THOD | OAL mm | 82 950 ... | |
|------|--------|------------|-------|
| | | £ | Y8 |
| M5 | 6 | 4.84 | 32900 |
| M6 | 6 | 4.84 | 33000 |

O ring for ball-shaped spray nozzle



| Size | 82 950 ... | |
|-----------|------------|-------|
| | £ | Y8 |
| Ø10 x Ø2 | 4.36 | 31600 |
| Ø5 x Ø1,5 | 4.36 | 31400 |
| Ø7 x Ø1,5 | 4.36 | 31700 |
| Ø7 x Ø2,5 | 4.36 | 31500 |

Screw for clamping wedge



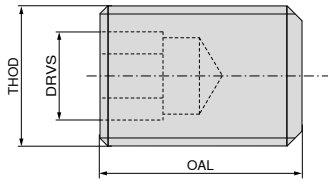
| THOD | 82 950 ... | |
|-------|------------|-------|
| | £ | Y8 |
| M5x12 | 5.57 | 31800 |
| M6x16 | 8.36 | 32200 |
| M6x20 | 8.36 | 31900 |
| M8x20 | 11.12 | 32300 |
| M8x25 | 13.91 | 32100 |

Quad ring



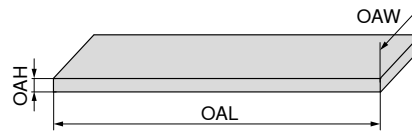
| Size | 82 950 ... | |
|----------------|------------|-------|
| | £ | Y8 |
| Ø21,95 x Ø1,78 | 16.69 | 32400 |
| Ø28,3 x Ø1,78 | 19.96 | 32500 |

Screw for cylindrical adaptors E2



Levelling plates

- ▲ For axial and radial tool holders
- ▲ Without mounting thread



| | | | 83 950 ... | |
|------|-----|------|------------|-----|
| THOD | OAL | DRVS | £ | |
| | mm | mm | Y8 | |
| M6 | 12 | 3 | 4.28 | 461 |
| M6 | 16 | 3 | 4.16 | 462 |
| M6 | 25 | 3 | 4.28 | 463 |
| M8 | 10 | 4 | 4.28 | 464 |
| M8 | 12 | 4 | 4.28 | 465 |
| M8 | 16 | 4 | 4.28 | 466 |
| M8 | 20 | 4 | 4.16 | 467 |
| M8 | 25 | 4 | 4.16 | 468 |
| M8 | 30 | 4 | 4.28 | 469 |
| M10 | 16 | 5 | 4.28 | 470 |
| M10 | 20 | 5 | 4.16 | 471 |
| M10 | 25 | 5 | 5.09 | 472 |
| M10 | 30 | 5 | 4.70 | 473 |
| M12 | 12 | 6 | 5.09 | 474 |
| M12 | 16 | 6 | 5.09 | 475 |
| M12 | 20 | 6 | 5.09 | 476 |
| M12 | 25 | 6 | 5.09 | 477 |

| | | | 83 950 ... | |
|-----|-----|-----|------------|-----|
| OAH | OAL | OAW | £ | |
| mm | mm | mm | Y8 | |
| 4 | 38 | 14 | 24.43 | 210 |
| 4 | 48 | 14 | 20.89 | 211 |
| 4 | 54 | 14 | 20.89 | 212 |
| 4 | 55 | 12 | 24.43 | 213 |
| 4 | 69 | 16 | 20.89 | 214 |
| 4 | 72 | 14 | 20.89 | 215 |
| 4 | 75 | 12 | 24.43 | 216 |
| 4 | 99 | 16 | 20.89 | 217 |
| 5 | 84 | 20 | 23.98 | 218 |
| 5 | 117 | 20 | 20.89 | 219 |
| 7 | 99 | 25 | 20.89 | 220 |
| 7 | 120 | 25 | 28.46 | 221 |
| 7 | 129 | 25 | 24.43 | 222 |
| 7 | 143 | 25 | 24.43 | 223 |

Clamping screw for cylindrical adaptors E1



| | | | 83 950 ... | |
|----------|--|--|------------|-----|
| THOD | | | £ | |
| | | | Y8 | |
| M10x1x10 | | | 8.63 | 180 |
| M12x1x12 | | | 8.63 | 181 |
| M16x1x13 | | | 7.70 | 182 |

Lock nut with external thread form ER for sealing rings with internal cooling



| for collet | THOD | DRVS mm | 83 950 ... | |
|------------|---------|------------|------------|-------|
| | | | £ | |
| | | | Y8 | |
| ER 16 | M24x1 | 19 | 105.16 | 45600 |
| ER 20 | M28x1,5 | 22 | 110.32 | 45700 |
| ER 25 | M32x1,5 | 24 | 108.00 | 45800 |
| ER 32 | M40x1,5 | 32 | 117.45 | 45900 |

Ball-shaped spray nozzle



| | | 83 950 ... | |
|------------|--|------------|-----|
| | | £ | |
| | | Y8 | |
| Ø 8 - M 5 | | 6.60 | 200 |
| Ø 10 - M 6 | | 8.32 | 201 |
| Ø 14 - M 8 | | 8.21 | 202 |

Pipe joints

▲ steel pipe



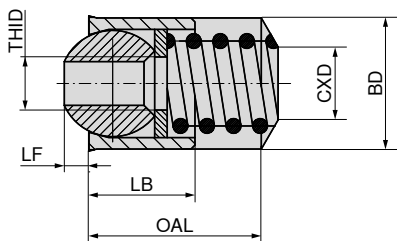
| THOD | CXD mm | Type | 83 950 ... | |
|-------|-----------|------|------------|-----|
| | | | £ | |
| | | | Y7 | |
| M8x1 | 5 | A | 17.91 | 372 |
| M10x1 | 6 | A | 38.92 | 373 |
| M10x1 | 8 | A | 22.82 | 374 |
| M8x1 | 5 | B | 17.91 | 375 |
| M10x1 | 6 | B | 38.92 | 376 |
| M10x1 | 8 | B | 38.92 | 377 |

O-Ring



| Adapter | Size | 83 950 ... | |
|---------|--------------|------------|-----|
| | | £ | |
| | | Y8 | |
| VDI 16 | 15 x 1,5 | 1.99 | 205 |
| VDI 20 | 18,77 x 1,78 | 1.99 | 206 |
| VDI 30 | 28,3 x 1,78 | 2.32 | 207 |
| VDI 40 | 37,77 x 2,62 | 2.67 | 208 |
| VDI 50 | 47,29 x 2,62 | 2.67 | 209 |

Spray nozzle element

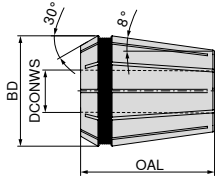


| BD mm | THID | OAL mm | LB mm | LF mm | CXD mm | 83 950 ... | |
|----------|------|-----------|----------|----------|-----------|------------|-----|
| | | | | | | £ | |
| | | | | | | Y8 | |
| 9.88 | M4 | 13 | 8 | 2.2 | 5.5 | 17.36 | 247 |
| 11.88 | M6 | 15 | 10 | 3.0 | 6.8 | 17.36 | 248 |
| 13.88 | M6 | 17 | 12 | 4.0 | 6.8 | 17.36 | 249 |

ER precision collet for precision collet chucks – Centro-P

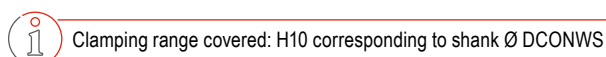
- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coloured ring as identification of precision collet
- ▲ ER08: 5 µm runout and repeatability
- ▲ Coated precision collet

ER-B
2 µm



| DCONWS mm | BD = 8.5 OAL = 13.6 4004 E / ER08 | | BD = 11.5 OAL = 18 4008 E / ER11 | | BD = 17 OAL = 27.5 426 E / ER16 | | BD = 26 OAL = 34 430 E / ER25 | | BD = 33 OAL = 40 470 E / ER32 | | BD = 41 OAL = 46 472 E / ER40 | |
|--------------|---|-------------------|--|-------------------|---------------------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|-------------------|
| | £ | | £ | | £ | | £ | | £ | | £ | |
| | | 84 577 ... | | 84 585 ... | | 84 596 ... | | 84 597 ... | | 84 598 ... | | 84 599 ... |
| | Y8 | | Y8 | | Y8 | | Y8 | | Y8 | | Y8 | |
| 1.0 | 119.93 | 010 | 115.95 | 010 | 113.96 | 010 | | | | | | |
| 1.1 | | | | | 203.83 | 011 | | | | | | |
| 1.2 | | | | | 203.83 | 012 | | | | | | |
| 1.4 | | | | | 203.83 | 014 | | | | | | |
| 1.5 | 119.93 | 015 | 115.95 | 015 | 113.96 | 015 | | | | | | |
| 1.6 | | | | | 203.83 | 016 | | | | | | |
| 1.8 | | | | | 203.83 | 018 | | | | | | |
| 2.0 | 106.51 | 020 | 101.92 | 020 | 97.34 | 020 | 100.77 | 020 | 103.06 | 020 | | |
| 2.2 | | | | | 180.93 | 022 | | | | | | |
| 2.4 | | | | | 180.93 | 024 | | | | | | |
| 2.5 | 106.51 | 025 | 101.92 | 025 | 97.34 | 025 | 100.77 | 025 | | | | |
| 2.6 | | | | | 180.93 | 026 | | | | | | |
| 2.8 | | | | | 180.93 | 028 | | | | | | |
| 3.0 | 90.46 | 030 | 85.90 | 030 | 82.45 | 030 | 84.75 | 030 | 85.90 | 030 | 125.94 | 030 |
| 3.2 | | | | | 160.33 | 032 | | | | | | |
| 3.4 | | | | | 141.95 | 034 | | | | | | |
| 3.5 | 90.46 | 035 | 85.90 | 035 | 104.97 | 035 | 109.96 | 035 | | | | |
| 3.6 | | | | | 160.33 | 036 | | | | | | |
| 3.8 | | | | | 160.33 | 038 | | | | | | |
| 4.0 | 90.46 | 040 | 85.90 | 040 | 82.45 | 040 | 84.75 | 040 | 85.90 | 040 | 109.94 | 040 |
| 4.5 | 90.46 | 045 | 85.90 | 045 | 104.97 | 045 | 109.96 | 045 | | | | |
| 5.0 | 90.46 | 050 | 85.90 | 050 | 82.45 | 050 | 84.75 | 050 | 85.90 | 050 | 109.94 | 050 |
| 5.5 | | | 85.90 | 055 | 104.97 | 055 | 109.96 | 055 | | | | |
| 5.6 | | | | | 160.33 | 056 | | | | | | |
| 6.0 | | | 85.90 | 060 | 82.45 | 060 | 84.75 | 060 | 85.90 | 060 | 109.94 | 060 |
| 6.3 | | | | | 160.33 | 063 | | | | | | |
| 6.5 | | | 85.90 | 065 | 104.97 | 065 | 109.96 | 065 | | | | |
| 7.0 | | | 85.90 | 070 | 82.45 | 070 | 84.75 | 070 | 85.90 | 070 | 109.94 | 070 |
| 7.1 | | | | | 160.33 | 071 | | | | | | |
| 7.5 | | | | | 104.97 | 075 | 109.96 | 075 | | | | |
| 8.0 | | | | | 82.45 | 080 | 84.75 | 080 | 85.90 | 080 | 109.94 | 080 |
| 8.5 | | | | | 104.97 | 085 | 109.96 | 085 | | | | |
| 9.0 | | | | | 82.45 | 090 | 84.75 | 090 | 85.90 | 090 | 109.94 | 090 |
| 9.5 | | | | | 104.97 | 095 | 109.96 | 095 | | | | |
| 10.0 | | | | | 82.45 | 100 | 84.75 | 100 | 85.90 | 100 | 109.94 | 100 |
| 10.5 | | | | | | | 109.96 | 105 | | | | |
| 11.0 | | | | | | | 84.75 | 110 | 85.90 | 110 | 109.94 | 110 |
| 11.5 | | | | | | | 109.96 | 115 | | | | |
| 12.0 | | | | | | | 84.75 | 120 | 85.90 | 120 | 109.94 | 120 |
| 12.5 | | | | | | | 109.96 | 125 | | | | |
| 13.0 | | | | | | | 84.75 | 130 | 85.90 | 130 | 109.94 | 130 |
| 13.5 | | | | | | | 109.96 | 135 | | | | |
| 14.0 | | | | | | | 84.75 | 140 | 85.90 | 140 | 109.94 | 140 |
| 14.5 | | | | | | | 109.96 | 145 | | | | |
| 15.0 | | | | | | | 84.75 | 150 | 85.90 | 150 | 109.94 | 150 |
| 15.5 | | | | | | | 109.96 | 155 | | | | |
| 16.0 | | | | | | | 84.75 | 160 | 85.90 | 160 | 109.94 | 160 |
| 17.0 | | | | | | | | | 85.90 | 170 | 109.94 | 170 |
| 18.0 | | | | | | | | | 85.90 | 180 | 109.94 | 180 |
| 19.0 | | | | | | | | | 85.90 | 190 | 109.94 | 190 |
| 20.0 | | | | | | | | | 85.90 | 200 | 109.94 | 200 |
| 21.0 | | | | | | | | | | | 109.94 | 210 |
| 22.0 | | | | | | | | | | | 109.94 | 220 |
| 23.0 | | | | | | | | | | | 109.94 | 230 |
| 24.0 | | | | | | | | | | | 109.94 | 240 |
| 25.0 | | | | | | | | | | | 109.94 | 250 |
| 26.0 | | | | | | | | | | | 109.94 | 260 |
| | | Set in wooden box | | | 531.33 | 999 | 641.29 | 999 | 737.47 | 999 | | |

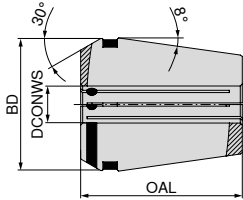
1) Included in the set



ER precision collet, sealed, for precision collet chucks – Centro-P

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ Coloured ring as identification of precision collet
- ▲ $p_{max.} = 60$ bar
- ▲ Coated precision collet

ER-B
2 µm

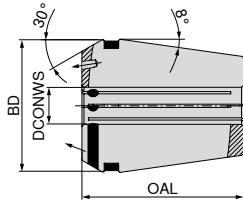


| DCONWS mm | BD = 11.3 OAL = 18 425 E / ER11 | | BD = 16.7 OAL = 27.5 425 E / ER16 | | BD = 25.7 OAL = 34 429 E / ER25 | | BD = 32.7 OAL = 40 469 E / ER32 | | BD = 40.7 OAL = 46 471 E / ER40 | |
|--------------|---------------------------------------|-----|---|-----|---------------------------------------|-----|---------------------------------------|-----|---------------------------------------|-----|
| | £ | | £ | | £ | | £ | | £ | |
| | 84 536 ... | | 84 537 ... | | 84 538 ... | | 84 539 ... | | 84 540 ... | |
| | Y8 | | Y8 | | Y8 | | Y8 | | Y8 | |
| 3 | 107.94 | 030 | 112.22 | 030 | 113.96 | 030 | 117.98 | 030 | | |
| 4 | 107.94 | 040 | 112.22 | 040 | 119.10 | 040 | 107.94 | 040 | | |
| 5 | 117.98 | 050 | 107.94 | 050 | 113.96 | 050 | 117.98 | 050 | | |
| 6 | 107.94 | 060 | 112.22 | 060 | 119.10 | 060 | 107.94 | 060 | 123.94 | 060 |
| 7 | | | 107.94 | 070 | 113.96 | 070 | 117.98 | 070 | | |
| 8 | | | 112.22 | 080 | 119.10 | 080 | 107.94 | 080 | 123.94 | 080 |
| 9 | | | 107.94 | 090 | 113.96 | 090 | 117.98 | 090 | | |
| 10 | | | 112.22 | 100 | 119.10 | 100 | 107.94 | 100 | 123.94 | 100 |
| 11 | | | | | 113.96 | 110 | 117.98 | 110 | | |
| 12 | | | | | 119.10 | 120 | 107.94 | 120 | 123.94 | 120 |
| 13 | | | | | 113.96 | 130 | 117.98 | 130 | | |
| 14 | | | | | 119.10 | 140 | 107.94 | 140 | 123.94 | 140 |
| 15 | | | | | 113.96 | 150 | 117.98 | 150 | | |
| 16 | | | | | 119.10 | 160 | 107.94 | 160 | 123.94 | 160 |
| 17 | | | | | | | 117.98 | 170 | | |
| 18 | | | | | | | 107.94 | 180 | 123.94 | 180 |
| 19 | | | | | | | 117.98 | 190 | | |
| 20 | | | | | | | 107.94 | 200 | 123.94 | 200 |
| 22 | | | | | | | | | 135.94 | 220 |
| 25 | | | | | | | | | 123.94 | 250 |

ER precision collet, sealed with coolant holes, for precision collet chucks – Centro-P

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ Coloured ring as identification of precision collet
- ▲ Coated precision collet

ER-A
2 μm

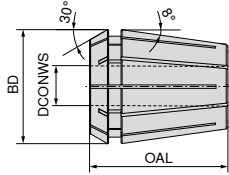


| DCONWS mm | BD = 11.3 OAL = 18 4012 E / ER11 | | BD = 16.7 OAL = 27.5 425 E / ER16 | | BD = 25.7 OAL = 34 429 E / ER25 | | BD = 32.7 OAL = 40 469 E / ER32 | | BD = 40.7 OAL = 46 471 E / ER40 | |
|--------------|--|-------|---|-------|---------------------------------------|-------|---------------------------------------|-----|---------------------------------------|-------|
| | £ | | £ | | £ | | £ | | £ | |
| | Y8 | | Y8 | | Y8 | | Y8 | | Y8 | |
| 3 | 165.36 | 03000 | 147.94 | 03000 | | | | | | |
| 4 | 165.36 | 04000 | 147.94 | 040 | 157.94 | 040 | 163.92 | 040 | | |
| 6 | 165.36 | 06000 | 147.94 | 060 | 157.94 | 060 | 163.92 | 060 | 189.93 | 06000 |
| 8 | | | 147.94 | 080 | 157.94 | 080 | 163.92 | 080 | 189.93 | 08000 |
| 10 | | | 147.94 | 10000 | 157.94 | 100 | 163.92 | 100 | 189.93 | 100 |
| 12 | | | | | 157.94 | 120 | 163.92 | 120 | 189.93 | 120 |
| 14 | | | | | 157.94 | 140 | 163.92 | 140 | | |
| 16 | | | | | 157.94 | 16000 | 163.92 | 160 | 189.93 | 160 |
| 18 | | | | | | | 163.92 | 180 | | |
| 20 | | | | | | | 163.92 | 200 | 189.93 | 200 |
| 25 | | | | | | | | | 189.93 | 250 |

ER precision collet

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coated collet

ER-B
5 µm



| DCONWS mm | BD = 11.5 OAL = 18 4008 E / ER11 | | BD = 17 OAL = 27.5 426 E / ER16 | | BD = 21 OAL = 31.5 428 E / ER20 | | BD = 26 OAL = 34 430 E / ER25 | | BD = 33 OAL = 40 470 E / ER32 | | BD = 41 OAL = 46 472 E / ER40 | |
|-------------------|--|-----|---------------------------------------|-------------------|---------------------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|-------------------|
| | £ Y8 | | £ Y8 | | £ Y8 | | £ Y8 | | £ Y8 | | £ Y8 | |
| 1.0 | 49.68 | 010 | 47.99 | 010 | 49.49 | 010 ¹⁾ | 52.21 | 010 ¹⁾ | | | | |
| 1.5 | 49.68 | 015 | 47.99 | 015 ¹⁾ | 49.49 | 015 ¹⁾ | 52.21 | 015 ¹⁾ | | | | |
| 2.0 | 49.68 | 020 | 47.99 | 020 | 49.49 | 020 | 52.21 | 020 | 55.14 | 020 ¹⁾ | | |
| 2.5 | 49.68 | 025 | 47.99 | 025 ¹⁾ | 49.49 | 025 ¹⁾ | 52.21 | 025 ¹⁾ | 55.14 | 025 ¹⁾ | | |
| 3.0 | 40.25 | 030 | 37.95 | 030 | 39.20 | 030 | 40.25 | 030 | 42.99 | 030 | 74.43 | 030 ¹⁾ |
| 3.5 | 40.25 | 035 | | | | | | | | | | |
| 4.0 | 40.25 | 040 | 37.95 | 040 | 39.20 | 040 | 40.25 | 040 | 42.99 | 040 | 55.56 | 040 |
| 4.5 | 40.25 | 045 | | | | | | | | | | |
| 5.0 | 40.25 | 050 | 37.95 | 050 | 39.20 | 050 | 40.25 | 050 | 42.99 | 050 | 55.56 | 050 |
| 5.5 | 40.25 | 055 | | | | | | | | | | |
| 6.0 | 40.25 | 060 | 37.95 | 060 | 39.20 | 060 | 40.25 | 060 | 42.99 | 060 | 55.56 | 060 |
| 6.5 | 40.25 | 065 | | | | | | | | | | |
| 7.0 | 40.25 | 070 | 37.95 | 070 | 39.20 | 070 | 40.25 | 070 | 42.99 | 070 | 55.56 | 070 |
| 8.0 | | | 37.95 | 080 | 39.20 | 080 | 40.25 | 080 | 42.99 | 080 | 55.56 | 080 |
| 9.0 | | | 37.95 | 090 | 39.20 | 090 | 40.13 | 090 | 42.99 | 090 | 55.56 | 090 |
| 10.0 | | | 37.95 | 100 | 39.20 | 100 | 40.25 | 100 | 42.99 | 100 | 55.56 | 100 |
| 11.0 | | | | | 39.20 | 110 | 40.25 | 110 | 42.99 | 110 | 55.56 | 110 |
| 12.0 | | | | | 39.20 | 120 | 40.25 | 120 | 42.99 | 120 | 55.56 | 120 |
| 13.0 | | | | | 39.20 | 130 | 40.25 | 130 | 42.99 | 130 | 55.56 | 130 |
| 14.0 | | | | | | | 40.25 | 140 | 42.99 | 140 | 55.56 | 140 |
| 15.0 | | | | | | | 40.25 | 150 | 42.99 | 150 | 55.56 | 150 |
| 16.0 | | | | | | | 40.25 | 160 | 42.99 | 160 | 55.56 | 160 |
| 17.0 | | | | | | | | | 42.99 | 170 | 55.56 | 170 |
| 18.0 | | | | | | | | | 42.99 | 180 | 55.56 | 180 |
| 19.0 | | | | | | | | | 42.99 | 190 | 55.56 | 190 |
| 20.0 | | | | | | | | | 42.99 | 200 | 55.56 | 200 |
| 21.0 | | | | | | | | | | | 55.56 | 210 |
| 22.0 | | | | | | | | | | | 55.56 | 220 |
| 23.0 | | | | | | | | | | | 55.56 | 230 |
| 24.0 | | | | | | | | | | | 55.56 | 240 |
| 25.0 | | | | | | | | | | | 55.56 | 250 |
| 26.0 | | | | | | | | | | | 55.56 | 260 |
| Set in wooden box | 599.52 | 999 | 433.92 | 999 | 528.24 | 999 | 668.70 | 999 | 836.36 | 999 | 1,352.06 | 999 |

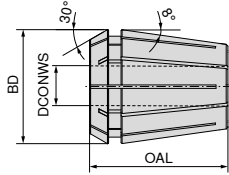
1) not included in the set

Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet

- ▲ DIN ISO 15488-B (alt DIN 6499-B)
- ▲ 16 times slotted
- ▲ Double taper clamping

ER-B
10 µm



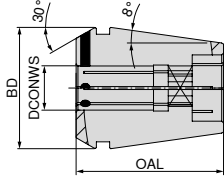
| DCONWS mm | NEW | | NEW | | NEW | | NEW | |
|-----------------------|---|---------------------------------------|-------------------------------------|-------------------------------------|---|---------------------------------------|-------------------------------------|-------------------------------------|
| | BD = 8.5 OAL = 13.6 4004 E / ER08 | BD = 17 OAL = 27.5 426 E / ER16 | BD = 26 OAL = 34 430 E / ER25 | BD = 33 OAL = 40 470 E / ER32 | BD = 8.5 OAL = 13.6 4004 E / ER08 | BD = 17 OAL = 27.5 426 E / ER16 | BD = 26 OAL = 34 430 E / ER25 | BD = 33 OAL = 40 470 E / ER32 |
| | 82 683 ... | 82 684 ... | 82 685 ... | 82 686 ... | £ | £ | £ | £ |
| 1.0 | 37.45 01000 | 29.78 01000 | | | Y8 | Y8 | Y8 | Y8 |
| 1.5 | 37.45 01500 | | | | | | | |
| 2.0 | 37.45 02000 | 29.78 02000 | 31.14 02000 | | | | | |
| 2.5 | 37.45 02500 | | | | | | | |
| 3.0 | 37.45 03000 | 29.78 03000 | 31.14 03000 | 32.97 03000 | | | | |
| 3.5 | 37.45 03500 | | | | | | | |
| 4.0 | 37.45 04000 | 29.78 04000 | 31.14 04000 | 32.97 04000 | | | | |
| 4.5 | 37.45 04500 | | | | | | | |
| 5.0 | 37.45 05000 | 29.78 05000 | 31.14 05000 | 32.97 05000 | | | | |
| 6.0 | | 29.78 06000 | 31.14 06000 | 32.97 06000 | | | | |
| 7.0 | | 29.78 07000 | 31.14 07000 | 32.97 07000 | | | | |
| 8.0 | | 29.78 08000 | 31.14 08000 | 32.97 08000 | | | | |
| 9.0 | | 29.78 09000 | 31.14 09000 | 32.97 09000 | | | | |
| 10.0 | | 29.78 10000 | 31.14 10000 | 32.97 10000 | | | | |
| 11.0 | | | 31.14 11000 | 32.97 11000 | | | | |
| 12.0 | | | 31.14 12000 | 32.97 12000 | | | | |
| 13.0 | | | 31.14 13000 | 32.97 13000 | | | | |
| 14.0 | | | 31.14 14000 | 32.97 14000 | | | | |
| 15.0 | | | 31.14 15000 | 32.97 15000 | | | | |
| 16.0 | | | 31.14 16000 | 32.97 16000 | | | | |
| 17.0 | | | | 32.97 17000 | | | | |
| 18.0 | | | | 32.97 18000 | | | | |
| 19.0 | | | | 32.97 19000 | | | | |
| 20.0 | | | | 32.97 20000 | | | | |
| Set with wood station | 373.35 99900 | 329.64 99900 | 498.65 99900 | 630.84 99900 | | | | |

Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

ER precision tap collet

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ $p_{max.} = 60$ bar
- ▲ Coated collet

ER-A
10 μ m



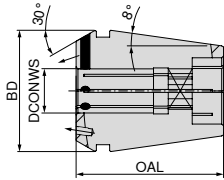
| | | |
|--|--|--|
| BD = 16.7 OAL = 27.5 4031 E / ER16 | BD = 25.7 OAL = 34 4282 E / ER25 | BD = 32.7 OAL = 40 4537 E / ER32 |
|--|--|--|

| DCONWS mm | 84 531 ... | | 84 533 ... | | 84 534 ... | |
|--------------|------------|------------|------------|-----|------------|-----|
| | £ | | £ | | £ | |
| 2.8 | Y8 | 104.89 028 | | | | |
| 3.5 | | 79.98 035 | 87.96 | 035 | | |
| 4.0 | | 79.98 040 | 87.96 | 040 | 108.26 | 040 |
| 4.5 | | 79.98 045 | 87.96 | 045 | 108.26 | 045 |
| 6.0 | | 79.98 060 | 87.96 | 060 | 108.26 | 060 |
| 7.0 | | 79.98 070 | 87.96 | 070 | 108.26 | 070 |
| 8.0 | | 79.98 080 | 87.96 | 080 | 108.26 | 080 |
| 9.0 | | 79.98 090 | 87.96 | 090 | 108.26 | 090 |
| 10.0 | | | 87.96 | 100 | 108.26 | 100 |
| 11.0 | | | 87.96 | 110 | 108.26 | 110 |
| 12.0 | | | 87.96 | 120 | 108.26 | 120 |
| 14.0 | | | 87.96 | 140 | 108.26 | 140 |
| 16.0 | | | 87.96 | 160 | 108.26 | 160 |
| 18.0 | | | | | 108.26 | 180 |
| 20.0 | | | | | 108.26 | 200 |

ER precision collet, sealed with coolant channels

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ Coated collet

ER-A
10 µm



| | | |
|--|--|--|
| BD = 16.7 OAL = 27.5 4537 E / ER16 | BD = 25.7 OAL = 34 4537 E / ER25 | BD = 32.7 OAL = 40 4537 E / ER32 |
|--|--|--|

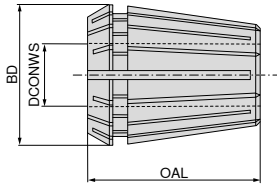
DCONWS

| mm | 84 567 ... | | 84 568 ... | | 84 569 ... | |
|------|------------|-------|------------|-------|------------|-----|
| | £ | | £ | | £ | |
| | Y8 | | Y8 | | Y8 | |
| 3.5 | 145.09 | 035 | | | | |
| 4.5 | 145.09 | 045 | 160.69 | 045 | 174.09 | 045 |
| 6.0 | 145.09 | 060 | 160.69 | 060 | 174.09 | 060 |
| 7.0 | 145.09 | 070 | 160.69 | 070 | 174.09 | 070 |
| 8.0 | 145.09 | 080 | 160.69 | 080 | 174.09 | 080 |
| 9.0 | 145.09 | 09000 | 160.69 | 090 | 174.09 | 090 |
| 10.0 | | | 160.69 | 100 | 174.09 | 100 |
| 11.0 | | | 160.69 | 110 | 174.09 | 110 |
| 12.0 | | | 160.69 | 120 | 174.09 | 120 |
| 14.0 | | | 160.69 | 140 | 174.09 | 140 |
| 16.0 | | | 160.69 | 16000 | 174.09 | 160 |
| 18.0 | | | | | 174.09 | 180 |
| 20.0 | | | | | 174.09 | 200 |

ER precision collet

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ Double taper collet
- ▲ 16 times slotted

ER-B
20 µm



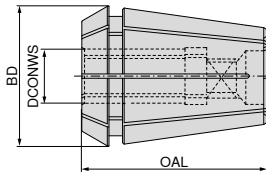
| DCONWS mm | NEW | | NEW | | NEW | | NEW | | NEW | | | | | |
|-----------------------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------|--------|------------|--------|------------|---|------------|-------|------------|
| | BD = 17 OAL = 27.5 426 E / ER16 | BD = 21 OAL = 31.5 428 E / ER20 | BD = 26 OAL = 34 430 E / ER25 | BD = 33 OAL = 40 470 E / ER32 | BD = 41 OAL = 46 472 E / ER40 | 82 687 ... | | 82 688 ... | | 82 689 ... | | 82 690 ... | | 82 691 ... |
| | £ | Y8 | £ | Y8 | £ | Y8 | £ | Y8 | £ | Y8 | £ | Y8 | £ | Y8 |
| 1 | 29.16 | 01000 | 30.14 | 01000 | | | | | | | | | | |
| 2 | 29.16 | 02000 | 30.14 | 02000 | | | | | | | | | | |
| 3 | 23.71 | 03000 | 21.92 | 03000 | 31.30 | 02000 | | | 25.29 | 03000 | | | 31.92 | 03000 |
| 4 | 23.71 | 04000 | 21.92 | 04000 | 23.49 | 04000 | | | 25.29 | 04000 | | | 31.92 | 04000 |
| 5 | 23.71 | 05000 | 21.92 | 05000 | 23.49 | 05000 | | | 25.29 | 05000 | | | 31.92 | 05000 |
| 6 | 23.71 | 06000 | 21.92 | 06000 | 23.49 | 06000 | | | 25.29 | 06000 | | | 31.92 | 06000 |
| 7 | 23.71 | 07000 | 21.92 | 07000 | 23.49 | 07000 | | | 25.29 | 07000 | | | 31.92 | 07000 |
| 8 | 23.71 | 08000 | 21.92 | 08000 | 23.49 | 08000 | | | 25.29 | 08000 | | | 31.92 | 08000 |
| 9 | 23.71 | 09000 | 21.92 | 09000 | 23.49 | 09000 | | | 25.29 | 09000 | | | 31.92 | 09000 |
| 10 | 23.71 | 10000 | 21.92 | 10000 | 23.49 | 10000 | | | 25.29 | 10000 | | | 31.92 | 10000 |
| 11 | | | 21.92 | 11000 | 23.49 | 11000 | | | 25.29 | 11000 | | | 31.92 | 11000 |
| 12 | | | 21.92 | 12000 | 23.49 | 12000 | | | 25.29 | 12000 | | | 31.92 | 12000 |
| 13 | | | 21.92 | 13000 | 23.49 | 13000 | | | 25.29 | 13000 | | | 31.92 | 13000 |
| 14 | | | | | 23.49 | 14000 | | | 25.29 | 14000 | | | 31.92 | 14000 |
| 15 | | | | | 23.49 | 15000 | | | 25.29 | 15000 | | | 31.92 | 15000 |
| 16 | | | | | 23.49 | 16000 | | | 25.29 | 16000 | | | 31.92 | 16000 |
| 17 | | | | | | | | | 25.29 | 17000 | | | 31.92 | 17000 |
| 18 | | | | | | | | | 25.29 | 18000 | | | 31.92 | 18000 |
| 19 | | | | | | | | | 25.29 | 19000 | | | 31.92 | 19000 |
| 20 | | | | | | | | | 25.29 | 20000 | | | 31.92 | 20000 |
| 21 | | | | | | | | | | | | | 31.92 | 21000 |
| 22 | | | | | | | | | | | | | 31.92 | 22000 |
| 23 | | | | | | | | | | | | | 31.92 | 23000 |
| 24 | | | | | | | | | | | | | 31.92 | 24000 |
| 25 | | | | | | | | | | | | | 31.92 | 25000 |
| 26 | | | | | | | | | | | | | 31.92 | 26000 |
| Set with wood station | 262.56 | 99900 | 281.94 | 99900 | 370.28 | 99900 | 454.41 | 99900 | 767.74 | 99900 | | | | |

Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet with internal square

- ▲ Similar DIN ISO 15488-A (old DIN 6499-A)
- ▲ 8 times slotted
- ▲ Double taper collets for holding taps on synchronised spindle machines, without compensating lengths

ER-A
15 µm



| DCONWS mm | NEW | | NEW | | NEW | |
|--------------|-------------------|---------------------------------------|-------------------|---------------------------------------|-------------------|---------------------------------------|
| | £ | | £ | | £ | |
| | | BD = 25.7 OAL = 34 430 E / ER25 | | BD = 32.7 OAL = 40 470 E / ER32 | | BD = 40.7 OAL = 46 472 E / ER40 |
| | 82 692 ... | | 82 693 ... | | 82 694 ... | |
| | Y8 | | Y8 | | Y8 | |
| 4.5 | 62.09 | 04500 | 67.97 | 04500 | | |
| 5.5 | 62.09 | 05500 | 67.97 | 05500 | | |
| 6.0 | 62.09 | 06000 | 67.97 | 06000 | | |
| 7.0 | 62.09 | 07000 | 67.97 | 07000 | 81.30 | 07000 |
| 8.0 | 62.09 | 08000 | 67.97 | 08000 | 81.30 | 08000 |
| 9.0 | 62.09 | 09000 | 67.97 | 09000 | 81.30 | 09000 |
| 10.0 | 62.09 | 10000 | 67.97 | 10000 | 81.30 | 10000 |
| 11.0 | 62.09 | 11000 | 67.97 | 11000 | 81.30 | 11000 |
| 12.0 | 62.09 | 12000 | 67.97 | 12000 | 81.30 | 12000 |
| 14.0 | | | 67.97 | 14000 | 81.30 | 14000 |
| 16.0 | | | 67.97 | 16000 | 81.30 | 16000 |
| 18.0 | | | | | 81.30 | 18000 |
| 20.0 | | | | | 81.30 | 20000 |

Wooden boxes for collets

▲ For collets form A+B

Scope of supply:
empty wooden box



| for collet | capacity | £ | |
|--------------|----------|--------|-----|
| 4004E (ER08) | 9 | 34.98 | 008 |
| 426E (ER16) | 10 | 39.53 | 116 |
| 428E (ER20) | 11 | 62.72 | 020 |
| 4008E (ER11) | 13 | 52.37 | 011 |
| 430E (ER25) | 14 | 65.35 | 025 |
| 470E (ER32) | 18 | 84.68 | 032 |
| 472E (ER40) | 24 | 106.98 | 040 |

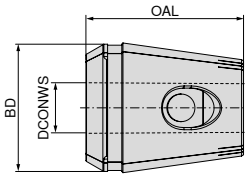
83 689 ...

Y8/3B

ER wedge collet with pull out protection, for precision collet chucks – Centro-P – HDC

- ▲ Similar to DIN ISO 15488-A
- ▲ Slotted
- ▲ Double taper collet

ER
5 μm



BD = 32.7
OAL = 40
ER 32

83 629 ...

| DCONWS mm | £ Y8 | |
|--------------|---------|-----|
| 12 | 217.68 | 120 |
| 16 | 217.68 | 160 |



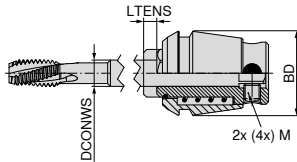
83 950 ...

| Spare parts DCONWS | £ Y8 | |
|-----------------------|---------|-----------|
| 12 | 13.06 | CP 32 455 |
| 16 | 13.06 | CP 32 455 |

Tapping Collet Form ET (ER) with length compensation

- ▲ DIN ISO 15488 (old DIN 6499)
- ▲ With pull out length compensation (LTENS)
- ▲ The spring force is adapted to the thread size
- ▲ Anti-rotation by 2 and/or 4 clamping screws on the shank square drive

ER
10 µm



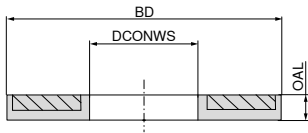
| DCONWS mm | BD = 17 LTENS = 7 426 E / ER16 | | BD = 21 LTENS = 7 428 E / ER20 | | BD = 26 LTENS = 8 430 E / ER25 | | BD = 33 LTENS = 10 470 E / ER32 | | BD = 41 LTENS = 13 472 E / ER40 | |
|--------------|--------------------------------------|-----|--------------------------------------|-----|--------------------------------------|-----|---------------------------------------|-----|---------------------------------------|-----|
| | 80 661 ... | | 80 662 ... | | 80 663 ... | | 80 664 ... | | 80 665 ... | |
| | £ | | £ | | £ | | £ | | £ | |
| 2.2 | 275.59 | 022 | 275.59 | 022 | | | | | | |
| 2.5 | 275.59 | 025 | 275.59 | 025 | 292.22 | 025 | | | | |
| 2.8 | 275.59 | 028 | 275.59 | 028 | 292.22 | 028 | | | | |
| 3.0 | 275.59 | 030 | 275.59 | 030 | 292.22 | 030 | | | | |
| 3.5 | 275.59 | 035 | 275.59 | 035 | 292.22 | 035 | | | | |
| 4.0 | 275.59 | 040 | 275.59 | 040 | 292.22 | 040 | | | | |
| 4.5 | 275.59 | 045 | 275.59 | 045 | 292.22 | 045 | 311.03 | 045 | | |
| 5.0 | | | | | | | 311.03 | 050 | | |
| 5.5 | 275.59 | 055 | 275.59 | 055 | 292.22 | 055 | 311.03 | 055 | | |
| 6.0 | 275.59 | 060 | 275.59 | 060 | 292.22 | 060 | 311.03 | 060 | 341.46 | 060 |
| 7.0 | | | 275.59 | 070 | 292.22 | 070 | 311.03 | 070 | 341.46 | 070 |
| 8.0 | | | | | 292.22 | 080 | 311.03 | 080 | 341.46 | 080 |
| 9.0 | | | | | 292.22 | 090 | 311.03 | 090 | 351.16 | 090 |
| 10.0 | | | | | 292.22 | 100 | 311.03 | 100 | 351.16 | 100 |
| 11.0 | | | | | | | 311.03 | 110 | 351.16 | 110 |
| 12.0 | | | | | | | 311.03 | 120 | 351.16 | 120 |
| 14.0 | | | | | | | | | 351.16 | 140 |
| 16.0 | | | | | | | | | 351.16 | 160 |



When using CNC machines apply canned cycles with a feed rate or pitch of only 95 % with small threads and up to 99 % with large threads. In this way when reversing the rotation of the spindle an optimum length compensation in both directions is guaranteed.

Sealing discs for precision collet chucks – Centro-P, ER-Standard and ER-Mini with thro' coolant

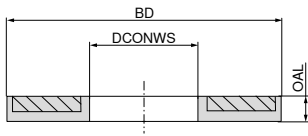
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



| DCONWS mm | BD = 12.6 OAL = 2 426E (ER16) | | BD = 15.8 OAL = 2 428E (ER20) | | BD = 20.2 OAL = 2 430E (ER25) | | BD = 26.2 OAL = 2 444E / OZ (ER32) | | BD = 34.2 OAL = 2 472E (ER40) | |
|--------------|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|--|-----|-------------------------------------|-----|
| | £ | | £ | | £ | | £ | | £ | |
| | Y8 | | Y8 | | Y8 | | Y8 | | Y8 | |
| 1.0 | 34.96 | 010 | | | | | | | | |
| 1.5 | 34.96 | 015 | | | | | | | | |
| 2.0 | 31.82 | 020 | 35.75 | 020 | 31.82 | 020 | 38.72 | 020 | | |
| 2.5 | 31.82 | 025 | 35.75 | 025 | 31.82 | 025 | 38.72 | 025 | | |
| 3.0 | 30.29 | 030 | 27.64 | 030 | 30.29 | 030 | 31.53 | 030 | 37.76 | 030 |
| 3.5 | 30.29 | 035 | 27.64 | 035 | 30.29 | 035 | 31.53 | 035 | 37.76 | 035 |
| 4.0 | 30.29 | 040 | 27.64 | 040 | 30.29 | 040 | 31.53 | 040 | 37.76 | 040 |
| 4.5 | 30.29 | 045 | 27.64 | 045 | 30.29 | 045 | 31.53 | 045 | 37.76 | 045 |
| 5.0 | 30.29 | 050 | 27.64 | 050 | 30.29 | 050 | 31.53 | 050 | 37.76 | 050 |
| 5.5 | 30.29 | 055 | 27.64 | 055 | 30.29 | 055 | 31.53 | 055 | 37.76 | 055 |
| 6.0 | 30.29 | 060 | 27.64 | 060 | 30.29 | 060 | 31.53 | 060 | 37.76 | 060 |
| 6.5 | 30.29 | 065 | 27.64 | 065 | 30.29 | 065 | 31.53 | 065 | 37.76 | 065 |
| 7.0 | 30.29 | 070 | 27.64 | 070 | 30.29 | 070 | 31.53 | 070 | 37.76 | 070 |
| 7.5 | 30.29 | 075 | 27.64 | 075 | 30.29 | 075 | 31.53 | 075 | 37.76 | 075 |
| 8.0 | 30.29 | 080 | 27.64 | 080 | 30.29 | 080 | 31.53 | 080 | 37.76 | 080 |
| 8.5 | 30.29 | 085 | 27.64 | 085 | 30.29 | 085 | 31.53 | 085 | 37.76 | 085 |
| 9.0 | 30.29 | 090 | 27.64 | 090 | 30.29 | 090 | 31.53 | 090 | 37.76 | 090 |
| 9.5 | 30.29 | 095 | 27.64 | 095 | 30.29 | 095 | 31.53 | 095 | 37.76 | 095 |
| 10.0 | 30.29 | 100 | 27.64 | 100 | 30.29 | 100 | 31.53 | 100 | 37.76 | 100 |
| 10.5 | | | 27.64 | 105 | 30.29 | 105 | 31.53 | 105 | 37.76 | 105 |
| 11.0 | | | 27.64 | 110 | 30.29 | 110 | 31.53 | 110 | 37.76 | 110 |
| 11.5 | | | 27.64 | 115 | 30.29 | 115 | 31.53 | 115 | 37.76 | 115 |
| 12.0 | | | 27.64 | 120 | 30.29 | 120 | 31.53 | 120 | 37.76 | 120 |
| 12.5 | | | 27.64 | 125 | 30.29 | 125 | 31.53 | 125 | 37.76 | 125 |
| 13.0 | | | 27.64 | 130 | 30.29 | 130 | 31.53 | 130 | 37.76 | 130 |
| 13.5 | | | | | 30.29 | 135 | 31.53 | 135 | 37.76 | 135 |
| 14.0 | | | | | 30.29 | 140 | 31.53 | 140 | 37.76 | 140 |
| 14.5 | | | | | 30.29 | 145 | 31.53 | 145 | 37.76 | 145 |
| 15.0 | | | | | 30.29 | 150 | 31.53 | 150 | 37.76 | 150 |
| 15.5 | | | | | 30.29 | 155 | 31.53 | 155 | 37.76 | 155 |
| 16.0 | | | | | 30.29 | 160 | 31.53 | 160 | 37.76 | 160 |
| 16.5 | | | | | | | 31.53 | 165 | 37.76 | 165 |
| 17.0 | | | | | | | 31.53 | 170 | 37.76 | 170 |
| 17.5 | | | | | | | 31.53 | 175 | 37.76 | 175 |
| 18.0 | | | | | | | 31.53 | 180 | 37.76 | 180 |
| 18.5 | | | | | | | 31.53 | 185 | 37.76 | 185 |
| 19.0 | | | | | | | 31.53 | 190 | 37.76 | 190 |
| 19.5 | | | | | | | 31.53 | 195 | 37.76 | 195 |
| 20.0 | | | | | | | 31.53 | 200 | 37.76 | 200 |
| 20.5 | | | | | | | | | 37.76 | 205 |
| 21.0 | | | | | | | | | 37.76 | 210 |
| 21.5 | | | | | | | | | 37.76 | 215 |
| 22.0 | | | | | | | | | 37.76 | 220 |
| 22.5 | | | | | | | | | 37.76 | 225 |
| 23.0 | | | | | | | | | 37.76 | 230 |
| 23.5 | | | | | | | | | 37.76 | 235 |
| 24.0 | | | | | | | | | 37.76 | 240 |
| 24.5 | | | | | | | | | 37.76 | 245 |
| 25.0 | | | | | | | | | 37.76 | 250 |
| 25.5 | | | | | | | | | 37.76 | 255 |
| 26.0 | | | | | | | | | 37.76 | 260 |

Sealing rings for precision collet chucks – PCC

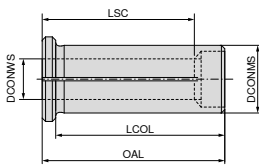
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 100 bar



| DCONWS mm | BD = 13 OAL = 4 426E (ER16) | | BD = 21 OAL = 4 430E (ER25) | | BD = 27 OAL = 4 470E (ER32) | |
|--------------|-----------------------------------|-------------------|-----------------------------------|-------------------|-----------------------------------|-------------------|
| | £ Y8 | | £ Y8 | | £ Y8 | |
| | | 82 630 ... | | 82 631 ... | | 82 632 ... |
| 3.0 | 40.88 | 03000 | 40.88 | 03000 | 40.88 | 03000 |
| 3.5 | 40.88 | 03500 | 40.88 | 03500 | 40.88 | 03500 |
| 4.0 | 40.88 | 04000 | 40.88 | 04000 | 40.88 | 04000 |
| 4.5 | 40.88 | 04500 | 40.88 | 04500 | 40.88 | 04500 |
| 5.0 | 40.88 | 05000 | 40.88 | 05000 | 40.88 | 05000 |
| 5.5 | 40.88 | 05500 | 40.88 | 05500 | 40.88 | 05500 |
| 6.0 | 40.88 | 06000 | 40.88 | 06000 | 40.88 | 06000 |
| 6.5 | 40.88 | 06500 | 40.88 | 06500 | 40.88 | 06500 |
| 7.0 | 40.88 | 07000 | 40.88 | 07000 | 40.88 | 07000 |
| 7.5 | 40.88 | 07500 | 40.88 | 07500 | 40.88 | 07500 |
| 8.0 | 40.88 | 08000 | 40.88 | 08000 | 40.88 | 08000 |
| 8.5 | 40.88 | 08500 | 40.88 | 08500 | 40.88 | 08500 |
| 9.0 | 40.88 | 09000 | 40.88 | 09000 | 40.88 | 09000 |
| 9.5 | 40.88 | 09500 | 40.88 | 09500 | 40.88 | 09500 |
| 10.0 | 40.88 | 10000 | 40.88 | 10000 | 40.88 | 10000 |
| 10.5 | | | 40.88 | 10500 | 40.88 | 10500 |
| 11.0 | | | 40.88 | 11000 | 40.88 | 11000 |
| 11.5 | | | 40.88 | 11500 | 40.88 | 11500 |
| 12.0 | | | 40.88 | 12000 | 40.88 | 12000 |
| 12.5 | | | 40.88 | 12500 | 40.88 | 12500 |
| 13.0 | | | 40.88 | 13000 | 40.88 | 13000 |
| 13.5 | | | 40.88 | 13500 | 40.88 | 13500 |
| 14.0 | | | 40.88 | 14000 | 40.88 | 14000 |
| 14.5 | | | 40.88 | 14500 | 40.88 | 14500 |
| 15.0 | | | 40.88 | 15000 | 40.88 | 15000 |
| 15.5 | | | 40.88 | 15500 | 40.88 | 15500 |
| 16.0 | | | 40.88 | 16000 | 40.88 | 16000 |
| 16.5 | | | | | 40.88 | 16500 |
| 17.0 | | | | | 40.88 | 17000 |
| 17.5 | | | | | 40.88 | 17500 |
| 18.0 | | | | | 40.88 | 18000 |
| 18.5 | | | | | 40.88 | 18500 |
| 19.0 | | | | | 40.88 | 19000 |
| 19.5 | | | | | 40.88 | 19500 |
| 20.0 | | | | | 40.88 | 20000 |

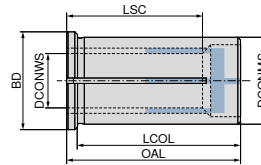
Reducing sleeves for hydraulic and high pressure chucks

▲ Thro' coolant to 80 bar



Reduction sleeves with coolant hole for hydraulic and high pressure chucks

▲ with coolant holes, for flexible diameter application



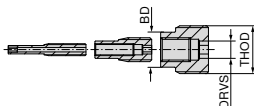
83 609 ...

| DCONMS | DCONWS | OAL | LCOL | LSC | £ | |
|--------|--------|-----|------|-----|--------|-----|
| mm | mm | mm | mm | mm | Y8 | |
| 12 | 3 | 40 | 36 | 29 | 273.00 | 103 |
| 12 | 4 | 40 | 36 | 29 | 273.00 | 104 |
| 12 | 5 | 40 | 36 | 29 | 273.00 | 105 |
| 12 | 6 | 40 | 36 | 36 | 273.00 | 106 |
| 12 | 8 | 40 | 36 | 37 | 273.00 | 108 |
| 20 | 3 | 54 | 50 | 28 | 256.43 | 203 |
| 20 | 4 | 54 | 50 | 28 | 256.43 | 204 |
| 20 | 5 | 54 | 50 | 28 | 256.43 | 205 |
| 20 | 6 | 54 | 50 | 36 | 199.22 | 206 |
| 20 | 8 | 54 | 50 | 37 | 199.22 | 208 |
| 20 | 10 | 54 | 50 | 40 | 199.22 | 210 |
| 20 | 12 | 54 | 50 | 45 | 199.22 | 212 |
| 20 | 14 | 54 | 50 | 45 | 199.22 | 214 |
| 20 | 16 | 54 | 50 | 48 | 199.22 | 216 |
| 25 | 6 | 60 | 56 | 37 | 209.14 | 256 |
| 25 | 8 | 60 | 56 | 37 | 209.14 | 258 |
| 25 | 10 | 60 | 56 | 40 | 209.14 | 260 |
| 25 | 12 | 60 | 56 | 46 | 209.14 | 262 |
| 25 | 14 | 60 | 56 | 47 | 209.14 | 264 |
| 25 | 16 | 60 | 56 | 48 | 209.14 | 266 |
| 25 | 18 | 60 | 56 | 48 | 209.14 | 268 |
| 25 | 20 | 60 | 56 | 50 | 209.14 | 270 |
| 32 | 6 | 64 | 60 | 36 | 256.43 | 306 |
| 32 | 8 | 64 | 60 | 36 | 256.43 | 308 |
| 32 | 10 | 64 | 60 | 40 | 256.43 | 310 |
| 32 | 12 | 64 | 60 | 45 | 256.43 | 312 |
| 32 | 14 | 64 | 60 | 46 | 256.43 | 314 |
| 32 | 16 | 64 | 60 | 48 | 256.43 | 316 |
| 32 | 18 | 64 | 60 | 49 | 256.43 | 318 |
| 32 | 20 | 64 | 60 | 50 | 256.43 | 320 |
| 32 | 25 | 64 | 60 | 56 | 256.43 | 325 |

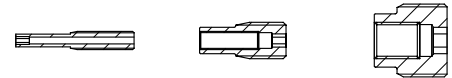
83 611 ...

| DCONMS | DCONWS | BD | OAL | LCOL | LSC | £ | |
|--------|--------|----|-----|------|-----|--------|-------|
| mm | mm | mm | mm | mm | mm | Y8 | |
| 12 | 3 | 16 | 44 | 40 | 29 | 443.28 | 10300 |
| 12 | 4 | 16 | 44 | 40 | 29 | 443.28 | 10400 |
| 12 | 5 | 16 | 44 | 40 | 29 | 443.28 | 10500 |
| 12 | 6 | 16 | 44 | 40 | 36 | 443.28 | 10600 |
| 12 | 8 | 16 | 44 | 40 | 37 | 443.28 | 10800 |
| 20 | 3 | 25 | 54 | 50 | 28 | 278.97 | 20300 |
| 20 | 4 | 25 | 54 | 50 | 28 | 278.97 | 20400 |
| 20 | 5 | 25 | 54 | 50 | 28 | 278.97 | 20500 |
| 20 | 6 | 25 | 54 | 50 | 36 | 278.97 | 20600 |
| 20 | 8 | 25 | 54 | 50 | 37 | 278.97 | 20800 |
| 20 | 10 | 25 | 54 | 50 | 40 | 278.97 | 21000 |
| 20 | 12 | 25 | 54 | 50 | 45 | 278.97 | 21200 |
| 20 | 14 | 25 | 54 | 50 | 45 | 278.97 | 21400 |
| 20 | 16 | 25 | 54 | 50 | 48 | 278.97 | 21600 |
| 32 | 6 | 36 | 64 | 60 | 36 | 315.46 | 30600 |
| 32 | 8 | 36 | 64 | 60 | 36 | 315.46 | 30800 |
| 32 | 10 | 36 | 64 | 60 | 40 | 315.46 | 31000 |
| 32 | 12 | 36 | 64 | 60 | 45 | 315.46 | 31200 |
| 32 | 14 | 36 | 64 | 60 | 46 | 315.46 | 31400 |
| 32 | 16 | 36 | 64 | 60 | 48 | 315.46 | 31600 |
| 32 | 18 | 36 | 64 | 60 | 49 | 315.46 | 31800 |
| 32 | 20 | 36 | 64 | 60 | 50 | 315.46 | 32000 |
| 32 | 25 | 36 | 64 | 60 | 56 | 315.46 | 32500 |

Stop screw for use with reducing sleeves in hydraulic chuck



Adaptation for the use of stop screws
for reducing sleeves



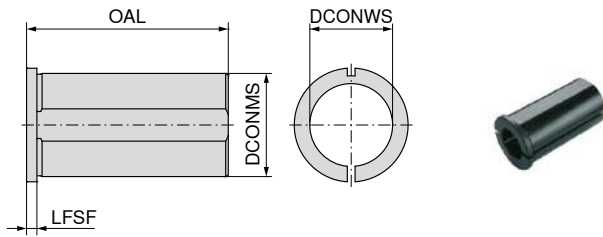
| DCONMS in mm | | | |
|--------------|------------|------------|------------|
| 12 | | 83 950 425 | 83 950 426 |
| 20 | 83 950 425 | 83 950 428 | 83 950 427 |
| 25 | 83 950 425 | 83 950 428 | 83 950 427 |
| 32 | | 83 950 428 | 83 950 427 |

83 950 ...

| THOD | BD | DRVS | £ | |
|-----------|------|------|-------|-----|
| | mm | mm | Y7 | |
| M4x0,5x26 | 2.8 | 2 | 23.98 | 425 |
| M8x1x19 | 5.8 | 2,5 | 23.98 | 428 |
| M10x1x16 | 5.8 | 3 | 23.98 | 426 |
| M16x1x16 | 11.7 | 5 | 23.98 | 427 |

Slotted reduction sleeves

- ▲ For cylindrical and other tool holders
- ▲ For tools with cylindrical shank

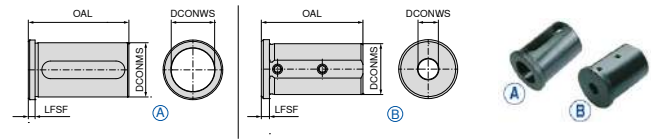


83 271 ...

| DCONMS mm | DCONWS mm | OAL mm | LFSF mm | £ Y8 | |
|--------------|--------------|-----------|------------|---------|-----|
| 20 | 6 | 30 | 4 | 124.48 | 206 |
| 20 | 8 | 30 | 4 | 98.00 | 208 |
| 20 | 10 | 30 | 4 | 98.00 | 210 |
| 20 | 12 | 30 | 4 | 98.00 | 212 |
| 20 | 15 | 30 | 4 | 98.00 | 215 |
| 20 | 16 | 30 | 4 | 98.00 | 216 |
| | | | | | |
| 25 | 6 | 40 | 4 | 139.97 | 256 |
| 25 | 8 | 40 | 4 | 104.43 | 258 |
| 25 | 10 | 40 | 4 | 104.43 | 260 |
| 25 | 12 | 40 | 4 | 104.43 | 262 |
| 25 | 15 | 40 | 4 | 111.55 | 265 |
| 25 | 16 | 40 | 4 | 104.43 | 266 |
| 25 | 20 | 40 | 4 | 104.43 | 270 |
| | | | | | |
| 32 | 6 | 50 | 4 | 135.19 | 326 |
| 32 | 8 | 50 | 4 | 104.43 | 328 |
| 32 | 10 | 50 | 4 | 104.43 | 330 |
| 32 | 12 | 50 | 4 | 104.43 | 332 |
| 32 | 15 | 50 | 4 | 104.43 | 335 |
| 32 | 16 | 50 | 4 | 104.43 | 336 |
| 32 | 20 | 50 | 4 | 104.43 | 340 |
| | | | | | |
| 40 | 10 | 78 | 4 | 125.86 | 410 |
| 40 | 12 | 78 | 4 | 125.86 | 412 |
| 40 | 15 | 78 | 4 | 125.86 | 415 |
| 40 | 16 | 78 | 4 | 125.86 | 416 |
| 40 | 20 | 78 | 4 | 125.86 | 420 |
| 40 | 25 | 78 | 4 | 125.86 | 425 |
| 40 | 32 | 78 | 4 | 125.86 | 432 |
| | | | | | |
| 50 | 20 | 88 | 4 | 168.92 | 520 |
| 50 | 25 | 88 | 4 | 168.92 | 525 |
| 50 | 32 | 88 | 4 | 168.92 | 532 |
| 50 | 40 | 88 | 4 | 168.92 | 540 |

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank



83 272 ...

| DCONMS mm | DCONWS mm | OAL mm | LFSF mm | Fig. | £ Y8 | |
|--------------|--------------|-----------|------------|------|---------|-----|
| 25 | 6 | 50 | 4 | B | 167.34 | 256 |
| 25 | 8 | 50 | 4 | B | 127.60 | 258 |
| 25 | 10 | 50 | 4 | B | 127.60 | 260 |
| 25 | 12 | 50 | 4 | B | 127.60 | 262 |
| 25 | 14 | 50 | 4 | A | 117.52 | 264 |
| 25 | 16 | 50 | 4 | A | 127.60 | 266 |
| 25 | 20 | 50 | 4 | A | 127.60 | 270 |
| | | | | | | |
| 32 | 6 | 58 | 5 | B | 172.67 | 326 |
| 32 | 8 | 58 | 5 | B | 172.67 | 328 |
| 32 | 10 | 58 | 5 | B | 131.20 | 330 |
| 32 | 12 | 58 | 5 | B | 131.20 | 332 |
| 32 | 16 | 58 | 5 | A | 131.20 | 336 |
| 32 | 20 | 58 | 5 | A | 131.20 | 340 |
| 32 | 25 | 58 | 5 | A | 131.20 | 345 |
| | | | | | | |
| 40 | 8 | 58 | 5 | B | 209.76 | 408 |
| 40 | 10 | 58 | 5 | B | 172.67 | 410 |
| 40 | 12 | 58 | 5 | B | 172.67 | 412 |
| 40 | 16 | 58 | 5 | A | 172.67 | 416 |
| 40 | 20 | 58 | 5 | A | 172.67 | 420 |
| 40 | 25 | 58 | 5 | A | 172.67 | 425 |
| 40 | 32 | 58 | 5 | A | 172.67 | 432 |
| | | | | | | |
| 50 | 12 | 75 | 5 | B | 194.80 | 512 |
| 50 | 16 | 75 | 5 | A | 194.80 | 516 |
| 50 | 20 | 75 | 5 | A | 194.80 | 520 |
| 50 | 25 | 75 | 5 | A | 194.80 | 525 |
| 50 | 32 | 75 | 5 | A | 194.80 | 532 |
| 50 | 40 | 75 | 5 | A | 194.80 | 540 |

Taper wiper

▲ Version made from hard wood with suede inserts



83 715 ...

| Adapter | £ | |
|---------|--------|-----|
| | Y8 | |
| MK 1 | 14.21 | 001 |
| MK 2 | 17.22 | 002 |
| MK 3 | 22.15 | 003 |
| MK 4 | 27.25 | 004 |
| MK 5 | 38.84 | 005 |
| HSK 32 | 93.90 | 320 |
| HSK 40 | 102.03 | 400 |
| HSK 50 | 103.53 | 500 |
| HSK 63 | 98.29 | 630 |
| HSK 80 | 156.26 | 800 |
| HSK 100 | 149.53 | 100 |
| SK 30 | 26.04 | 130 |
| SK 40 | 30.81 | 140 |
| SK 50 | 40.10 | 150 |

Assembly device for ISO adaptors

▲ Aluminium

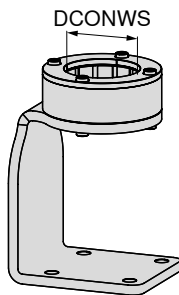


80 720 ...

| Adapter | £ | |
|---------|--------|-----|
| | Y7 | |
| SK 30 | 253.35 | 030 |
| SK 40 | 253.35 | 040 |
| SK 50 | 421.48 | 050 |


Assembly fixture for tool holders

- ▲ gripping by roller
- ▲ secure clamping
- ▲ quick assembly, no additional clamping necessary

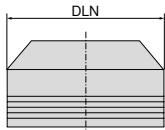


80 722 ...

| Holder Type | DCONWS mm | £ | |
|---|--------------|--------|-----|
| | | Y7 | |
| HSK 32, PSC 32 | 32.0 | 365.74 | 032 |
| HSK 40, PSC 40 | 40.0 | 365.74 | 040 |
| MAS-BT 30 | 46.0 | 321.17 | 046 |
| ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50 | 50.0 | 321.17 | 050 |
| ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40 | 63.0 | 321.17 | 063 |
| ISO 7388-1 - SK 50 | 97.5 | 639.12 | 097 |
| HSK 100, MAS-BT 50, ANSI-CAT 50 | 100.0 | 639.12 | 100 |

 Safety Note: The clamping devices must be free of oil and grease to avoid slipping!

ER standard lock nut for precision collet chucks – Centro-P



for seals

| for collet | DCONWS mm | DLN mm | TQX Nm | 84 950 ... | | 84 950 ... | |
|-------------|--------------|-----------|-----------|------------|-----|------------|-----|
| | | | | £ Y8 | | £ Y8 | |
| 426E (ER16) | 1 - 10 | 30 | 80 | 68.64 | 001 | 92.42 | 011 |
| 430E (ER25) | 2 - 16 | 40 | 90 | 76.26 | 003 | 103.01 | 013 |
| 470E (ER32) | 2 - 20 | 50 | 180 | 83.89 | 005 | 110.15 | 015 |
| 472E (ER40) | 3 - 26 | 63 | 200 | 122.04 | 007 | 150.65 | 017 |

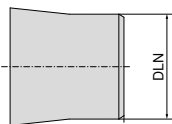
Collet removal aid for Mini lock nuts for precision collet chucks – Centro-P



84 950 ...

| for collet | £ Y8 | |
|--------------|---------|-----|
| 4004E (ER08) | 57.33 | 070 |
| 4008E (ER11) | 80.64 | 072 |

Tapered lock nut for precision collet chucks – Centro-P



for seals

| for collet | DCONWS mm | DLN mm | TQX Nm | 84 950 ... | | 84 950 ... | |
|-------------|--------------|-----------|-----------|------------|-----|------------|-----|
| | | | | £ Y8 | | £ Y8 | |
| 426E (ER16) | 1 - 10 | 24 | 80 | 95.86 | 031 | 113.47 | 033 |

Mini lock nut for precision collet chucks – Centro-P



for seals

| for collet | DCONWS mm | DLN mm | TQX Nm | 84 950 ... | | 84 950 ... | |
|--------------|--------------|-----------|-----------|------------|-------------------|------------|-----|
| | | | | £ Y8 | | £ Y8 | |
| 4004E (ER08) | 1 - 5 | 10 | 5 - 8 | 115.19 | 040 | | |
| 4008E (ER11) | 1 - 7 | 16 | 10 | 95.86 | 041 | | |
| 4008E (ER11) | Ø 3,0 | 16 | 10 | 199.43 | 042 ¹⁾ | | |
| 4008E (ER11) | Ø 4,0 | 16 | 10 | 199.43 | 043 ¹⁾ | | |
| 4008E (ER11) | Ø 5,0 | 16 | 10 | 199.43 | 044 ¹⁾ | | |
| 4008E (ER11) | Ø 6,0 | 16 | 10 | 199.43 | 045 ¹⁾ | | |
| 4008E (ER11) | Ø 7,0 | 16 | 10 | 199.43 | 046 ¹⁾ | | |
| 426E (ER16) | 1 - 10 | 22 | 30 | 76.59 | 034 | | |
| 426E (ER16) | 1 - 10 | 22 | 28 | | | 93.35 | 035 |

1) directly sealed

Roll key

- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



| | | 84 950 ... | |
|------------------------------|--------|------------|-------------------|
| for lock nut | DLN mm | £ Y8 | |
| 4004E / ER08 CP mini | 10 | 338.71 | 050 ¹⁾ |
| 4008E / ER 11 CP mini | 16 | 156.15 | 080 ¹⁾ |
| 426E / ER 16 CP / ER 16 mini | 22 | 139.08 | 026 ¹⁾ |
| 426E / ER 16 CP Conical | 24 | 156.15 | 082 ²⁾ |
| 426E / ER 16 CP | 30 | 139.08 | 027 |
| 426E / ER 16 STD | 32 | 139.08 | 028 |
| 430E / ER 25 CP | 40 | 163.04 | 054 |
| 470E / ER 32 CP + STD | 50 | 152.85 | 056 |
| 470E / ER 32 HDC | 53 | 185.78 | 30200 |
| 472E / ER 40 CP + STD | 63 | 174.11 | 057 |

- 1) Special key for mini lock nuts
- 2) Key for tapered lock nuts

Torque key



| | | 84 435 ... | |
|----------|-----------|------------|-----|
| TQX Nm | Square mm | £ Y8 | |
| 5 - 30 | 9 x 12 | 287.70 | 030 |
| 10 - 80 | 9 x 12 | 340.41 | 080 |
| 20 - 200 | 14 x 18 | 347.64 | 200 |

Additional roll key device for torque key

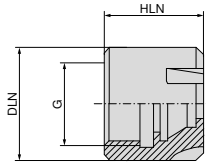
- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



| | | 84 950 ... | | | |
|------------------------------|--------|------------|-----------|--------|-------------------|
| for lock nut | DLN mm | TQX Nm | Square mm | £ Y8 | |
| 4008E / ER 11 CP mini | 16 | 5 - 30 | 9 x 12 | 156.18 | 060 ¹⁾ |
| 426E / ER 16 CP / ER 16 mini | 22 | 5 - 30 | 9 x 12 | 139.08 | 170 ¹⁾ |
| 426E / ER 16 CP Conical | 24 | 10 - 80 | 9 x 12 | 156.18 | 061 ²⁾ |
| 426E / ER 16 CP | 30 | 20 - 200 | 14 x 18 | 139.08 | 171 |
| 426E / ER 16 STD | 32 | 20 - 200 | 14 x 18 | 139.08 | 172 |
| 430E / ER 25 CP | 40 | 20 - 200 | 14 x 18 | 156.18 | 065 |
| 470E / ER 32 CP + STD | 50 | 20 - 200 | 14 x 18 | 156.18 | 067 |
| 470E / ER 32 HDC | 53 | 20 - 200 | 14 x 18 | 185.78 | 30300 |
| 472E / ER 40 CP + STD | 63 | 20 - 200 | 14 x 18 | 156.18 | 068 |

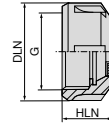
- 1) For mini lock nuts
- 2) For tapered lock nuts

Mini ER lock nut



| for collet | THSZMS | DLN mm | HLN mm | TQX Nm | £ W7 | |
|--------------|----------|--------|--------|--------|-------|-----|
| 4004E (ER08) | M10x0,75 | 12 | 11.0 | 8 | 71.00 | 067 |
| 4008E (ER11) | M13x0,75 | 16 | 12.0 | 18 | 63.77 | 065 |
| 426E (ER16) | M19x1 | 22 | 18.0 | 28 | 44.48 | 066 |
| 428E (ER20) | M24x1 | 28 | 19.5 | 35 | 70.62 | 068 |
| 430E (ER25) | M30x1 | 35 | 21.0 | 40 | 70.62 | 069 |

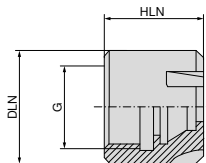
ER Lock nut



for seals

| for collet | THSZMS | DLN mm | HLN mm | £ W7 | | 62 950 ... | 83 950 ... |
|-------------|---------|--------|--------|-------|-----|------------|------------|
| 426E (ER16) | M22x1,5 | 32 | 17.0 | 25.64 | 054 | | £ Y8 |
| 426E (ER16) | M22x1,5 | 32 | 22.0 | | | | 82.98 054 |
| 428E (ER20) | M25x1,5 | 35 | 23.2 | | | | 94.26 053 |
| 430E (ER25) | M32x1,5 | 42 | 20.0 | 26.70 | 055 | | 96.66 055 |
| 470E (ER32) | M40x1,5 | 50 | 22.3 | 27.37 | 056 | | 103.38 056 |
| 470E (ER32) | M40x1,5 | 50 | 27.0 | | | | |
| 472E (ER40) | M50x1,5 | 63 | 25.3 | 28.36 | 057 | | 124.40 057 |
| 472E (ER40) | M50x1,5 | 63 | 30.7 | | | | |

Mini ER lock nut for sealing rings



for seals

| for collet | THSZMS | DLN mm | HLN mm | TQX Nm | £ Y8 | |
|----------------|--------|--------|--------|--------|--------|-----|
| 426E (ER16-DS) | M19x1 | 22 | 22.0 | 28 | 107.02 | 058 |
| 428E (ER20-DS) | M24x1 | 28 | 23.2 | 35 | 109.01 | 059 |
| 430E (ER25-DS) | M30x1 | 35 | 24.7 | 40 | 114.91 | 060 |

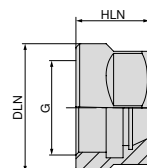
Y clamping key



| for lock nut | £ Y8 | |
|--------------|-------|-------|
| ER 16 | 28.20 | 116 |
| ER 20 | 40.89 | 12000 |
| ER 25 | 28.20 | 125 |
| ER 32 | 41.07 | 132 |
| ER 40 | 46.52 | 140 |

ER Lock nut

▲ DRVS = Drive size



ER Mini clamping key

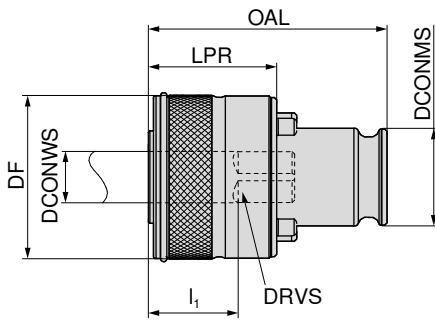


| for collet | £ Y8 | |
|--------------|-------|-----|
| 4004E (ER08) | 42.35 | 099 |
| 4008E (ER11) | 42.35 | 100 |
| 426E (ER16) | 47.39 | 101 |
| 428E (ER20) | 44.47 | 102 |
| 430E (ER25) | 44.47 | 103 |

| for collet | THSZMS | DRVS mm | DLN mm | HLN mm | £ W7 | |
|-------------|---------|---------|--------|--------|-------|-----|
| 426E (ER16) | M22x1,5 | 25 | 28 | 18.0 | 32.23 | 044 |
| 428E (ER20) | M25x1,5 | 30 | 34 | 19.5 | 25.99 | 045 |

Quick change tap adapter with overload clutch

- ▲ Adapter with adjustable overload clutch
- ▲ for use with taps

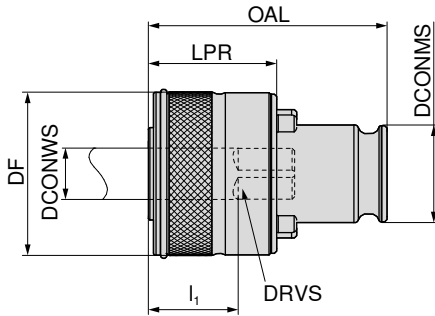


83 612 ...

| SZID | DCONWS | DRVS | DIN 371 | DIN 374 / 376 | DF | DCONMS | OAL | I ₁ | LPR | 83 612 ... | |
|------|--------|------|--------------|---------------|----|--------|------|----------------|-----|------------|-----|
| | | | | | | | | | | mm | mm |
| 01 | 2.8 | 2.1 | M2 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 100 |
| 01 | 2.8 | 2.1 | M2,5 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 101 |
| 01 | 3.5 | 2.7 | M3 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 102 |
| 01 | 4.0 | 3.0 | M3,5 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 103 |
| 01 | 4.5 | 3.4 | M4 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 104 |
| 01 | 6.0 | 4.9 | M4,5 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 105 |
| 01 | 6.0 | 4.9 | M5 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 106 |
| 01 | 4.5 | 3.4 | | M6 | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 107 |
| 01 | 6.0 | 4.9 | M6 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 108 |
| 01 | 5.5 | 4.3 | | M7 | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 109 |
| 01 | 7.0 | 5.5 | M7 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 110 |
| 01 | 6.0 | 4.9 | | M8 | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 111 |
| 01 | 8.0 | 6.2 | M8 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 112 |
| 01 | 9.0 | 7.0 | M9 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 113 |
| 01 | 7.0 | 5.5 | | M10 | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 114 |
| 01 | 10.0 | 8.0 | M10 | | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 115 |
| 01 | 8.0 | 6.2 | | M11 | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 116 |
| 01 | 9.0 | 7.0 | | M12 | 33 | 19 | 46.5 | 17 | 25 | 127.26 | 117 |
| 02 | 6.0 | 4.9 | M4,5 - M6 | | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 200 |
| 02 | 6.0 | 4.9 | M7 (DIN 352) | | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 201 |
| 02 | 7.0 | 5.5 | M7 | | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 202 |
| 02 | 6.0 | 4.9 | | M8 | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 203 |
| 02 | 8.0 | 6.2 | M8 | | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 204 |
| 02 | 9.0 | 7.0 | M9 | | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 205 |
| 02 | 7.0 | 5.5 | | M10 | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 206 |
| 02 | 10.0 | 8.0 | M10 | | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 207 |
| 02 | 8.0 | 6.2 | | M11 | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 208 |
| 02 | 9.0 | 7.0 | | M12 | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 209 |
| 02 | 11.0 | 9.0 | | M14 | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 210 |
| 02 | 12.0 | 9.0 | | M16 | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 211 |
| 02 | 14.0 | 11.0 | | M18 | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 212 |
| 02 | 16.0 | 12.0 | | M20 | 50 | 31 | 69.0 | 30 | 34 | 166.60 | 213 |

Quick change tap adapter with overload clutch, with through coolant

- ▲ Adapter with adjustable overload clutch
- ▲ for use with taps

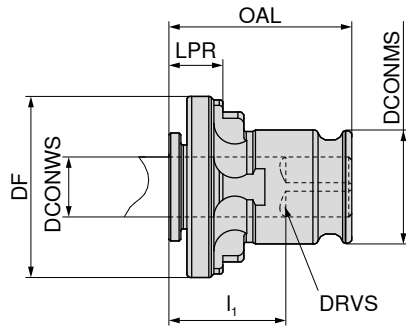


83 616 ...

| SZID | DCONWS mm | DRVS mm | DIN 371 | DIN 374 / 376 | DF mm | DCONMS mm | OAL mm | I ₁ mm | LPR mm | 83 616 ... | |
|------|--------------|------------|-----------|---------------|----------|--------------|-----------|----------------------|-----------|------------|-----|
| | | | | | | | | | | £ | Y8 |
| 01 | 3.5 | 2.7 | M3 | M4,5 - M5 | 33 | 19 | 46.5 | 17 | 25 | 211.97 | 100 |
| 01 | 4.5 | 3.4 | M4 | M6 | 33 | 19 | 46.5 | 17 | 25 | 211.97 | 102 |
| 01 | 5.5 | 4.3 | | M7 | 33 | 19 | 46.5 | 17 | 25 | 211.97 | 104 |
| 01 | 6.0 | 4.9 | M4,5 - M6 | M8 | 33 | 19 | 46.5 | 17 | 25 | 211.97 | 106 |
| 01 | 7.0 | 5.5 | | M10 | 33 | 19 | 46.5 | 17 | 25 | 211.97 | 108 |
| 01 | 8.0 | 6.2 | M8 | M11 | 33 | 19 | 46.5 | 17 | 25 | 211.97 | 110 |
| 01 | 9.0 | 7.0 | M9 | M12 | 33 | 19 | 46.5 | 17 | 25 | 211.97 | 112 |
| 01 | 10.0 | 8.0 | M10 | | 33 | 19 | 46.5 | 17 | 25 | 211.97 | 114 |
| 01 | 11.0 | 9.0 | | M14 | 33 | 19 | 46.5 | 17 | 25 | 211.97 | 116 |
| 02 | 6.0 | 4.9 | M4,5 - M6 | M8 | 50 | 31 | 69.0 | 30 | 34 | 257.33 | 200 |
| 02 | 7.0 | 5.5 | M7 | M10 | 50 | 31 | 69.0 | 30 | 34 | 257.33 | 202 |
| 02 | 8.0 | 6.2 | M8 | M11 | 50 | 31 | 69.0 | 30 | 34 | 257.33 | 204 |
| 02 | 9.0 | 7.0 | M9 | M12 | 50 | 31 | 69.0 | 30 | 34 | 257.33 | 206 |
| 02 | 10.0 | 8.0 | M10 | | 50 | 31 | 69.0 | 30 | 34 | 257.33 | 208 |
| 02 | 11.0 | 9.0 | | M14 | 50 | 31 | 69.0 | 30 | 34 | 257.33 | 210 |
| 02 | 12.0 | 9.0 | M12 | M16 | 50 | 31 | 69.0 | 30 | 34 | 257.33 | 212 |
| 02 | 14.0 | 11.0 | | M18 | 50 | 31 | 69.0 | 30 | 34 | 257.33 | 214 |
| 02 | 16.0 | 12.0 | | M20 | 50 | 31 | 69.0 | 30 | 34 | 257.33 | 216 |

Quick change tap adapter

- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads

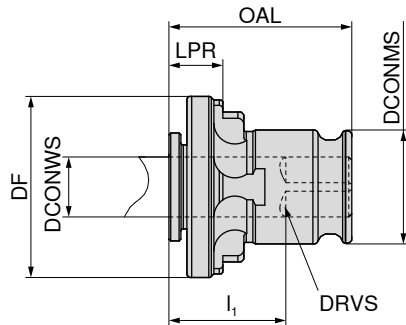


83 610 ...

| SZID | DCONWS mm | DRVS mm | DIN 371 | DIN 374 / 376 | DF mm | DCONMS mm | OAL mm | I ₁ mm | LPR mm | 83 610 ... | |
|------|--------------|------------|-----------|---------------|----------|--------------|-----------|----------------------|-----------|------------|-----|
| | | | | | | | | | | £ | |
| 01 | 3.5 | 2.7 | M3 | | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 100 |
| 01 | 4.5 | 3.4 | M4 | | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 101 |
| 01 | 4.0 | 3.0 | M3,5 | | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 102 |
| 01 | 2.8 | 2.1 | M2 - M2,6 | | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 103 |
| 01 | 5.5 | 4.3 | | M7 | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 104 |
| 01 | 6.0 | 4.9 | M4,5 - M6 | M8 | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 105 |
| 01 | 7.0 | 5.5 | M7 | M10 | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 106 |
| 01 | 8.0 | 6.2 | M8 | M11 | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 107 |
| 01 | 9.0 | 7.0 | M9 | M12 | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 108 |
| 01 | 10.0 | 8.0 | M10 | | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 109 |
| 01 | 11.0 | 9.0 | | M14 | 30 | 19 | 28.5 | 17 | 7 | 48.71 | 110 |
| 02 | 6.0 | 4.9 | M4,5 - M6 | | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 200 |
| 02 | 7.0 | 5.5 | M7 | | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 201 |
| 02 | 8.0 | 6.2 | M8 | | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 202 |
| 02 | 9.0 | 7.0 | M9 | | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 203 |
| 02 | 10.0 | 8.0 | M10 | | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 204 |
| 02 | 11.0 | 9.0 | | M14 | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 205 |
| 02 | 12.0 | 9.0 | | M16 | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 206 |
| 02 | 14.0 | 11.0 | | M18 | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 207 |
| 02 | 16.0 | 12.0 | | M20 | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 208 |
| 02 | 18.0 | 14.5 | | M22 - M24 | 46 | 31 | 46.0 | 30 | 11 | 66.99 | 209 |

Quick change tap adapter, with through coolant

- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads

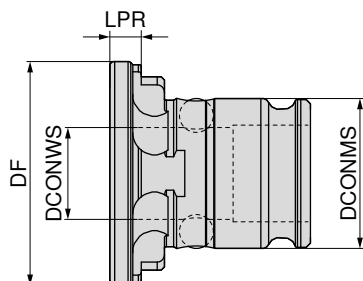


83 614 ...

| SZID | DCONWS mm | DRVS mm | DIN 371 | DIN 374 / 376 | DF mm | DCONMS mm | OAL mm | I ₁ mm | LPR mm | £ | |
|------|--------------|------------|-----------|---------------|----------|--------------|-----------|----------------------|-----------|--------|-----|
| 01 | 3.5 | 2.7 | | M4,5 - M5 | 30 | 19 | 28.5 | 17 | 7 | Y8 | 100 |
| 01 | 4.5 | 3.4 | M4 | M6 | 30 | 19 | 28.5 | 17 | 7 | 97.23 | 102 |
| 01 | 5.5 | 4.3 | | M7 | 30 | 19 | 28.5 | 17 | 7 | 97.23 | 104 |
| 01 | 6.0 | 4.9 | M4,5 - M6 | M8 | 30 | 19 | 28.5 | 17 | 7 | 97.23 | 106 |
| 01 | 7.0 | 5.5 | M7 | M10 | 30 | 19 | 28.5 | 17 | 7 | 97.23 | 108 |
| 01 | 8.0 | 6.2 | M8 | M11 | 30 | 19 | 28.5 | 17 | 7 | 97.23 | 110 |
| 01 | 9.0 | 7.0 | M9 | M12 | 30 | 19 | 28.5 | 17 | 7 | 97.23 | 112 |
| 01 | 10.0 | 8.0 | M10 | | 30 | 19 | 28.5 | 17 | 7 | 97.23 | 114 |
| 02 | 6.0 | 4.9 | M4,5 - M6 | M8 | 46 | 31 | 46.0 | 30 | 11 | 127.26 | 200 |
| 02 | 7.0 | 5.5 | M7 | M10 | 46 | 31 | 46.0 | 30 | 11 | 127.26 | 202 |
| 02 | 8.0 | 6.2 | M8 | M11 | 46 | 31 | 46.0 | 30 | 11 | 127.26 | 204 |
| 02 | 9.0 | 7.0 | M9 | M12 | 46 | 31 | 46.0 | 30 | 11 | 127.26 | 206 |
| 02 | 10.0 | 8.0 | M10 | | 46 | 31 | 46.0 | 30 | 11 | 127.26 | 208 |
| 02 | 11.0 | 9.0 | | M14 | 46 | 31 | 46.0 | 30 | 11 | 127.26 | 210 |
| 02 | 12.0 | 9.0 | M12 | M16 | 46 | 31 | 46.0 | 30 | 11 | 127.26 | 212 |
| 02 | 14.0 | 11.0 | | M18 | 46 | 31 | 46.0 | 30 | 11 | 127.26 | 214 |
| 02 | 16.0 | 12.0 | | M20 | 46 | 31 | 46.0 | 30 | 11 | 127.26 | 216 |

Reducing adapter for quick change adapters

- ▲ Reducing adapter for reducing size 02 to 01. In this way the clamping ranges can be extended to smaller sizes.

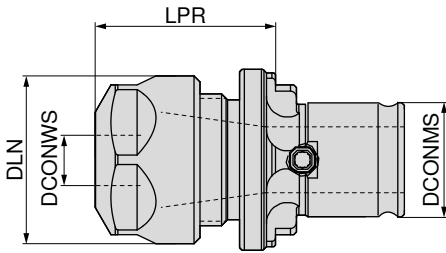


83 624 ...

| SZID | DF mm | DCONMS mm | DCONWS mm | LPR mm | £ | |
|------|----------|--------------|--------------|-----------|--------|-----|
| 02 | 46 | 31 | 19 | 8.5 | Y8 | 200 |
| | | | | | 149.98 | |

Quick change tap adapters

▲ Adapters for collets ER 16 / ER 25



| SZID | DCONWS mm | DLN mm | DCONMS mm | LPR mm | for collet |
|------|--------------|-----------|--------------|-----------|------------|
| 01 | 1 - 10 | 28 | 19 | 29.5 | ER 16 |
| 02 | 2 - 16 | 42 | 31 | 38.5 | ER 25 |

83 618 ...

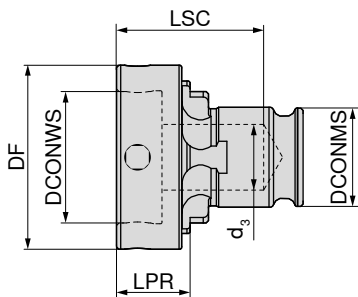
£
Y8

205.88 010 ¹⁾
290.32 016

1) with 6 position lock nut

Quick change adapter for dies

▲ For mounting dies according to DIN 223



| SZID | for size | DF mm | DCONMS mm | DCONWS mm | LPR mm | d ₃ mm | LSC mm |
|------|----------|----------|--------------|--------------|-----------|----------------------|-----------|
| 02 | 20 x 5 | 30 | 31 | 20 | 22 | 15.0 | 57 |
| 01 | 16 x 5 | 25 | 19 | 16 | 9 | 12.5 | 23 |
| 01 | 20 x 5 | 30 | 19 | 20 | 9 | 12.5 | 23 |
| 01 | 20 x 7 | 30 | 19 | 20 | 11 | 12.5 | 25 |
| 01 | 25 x 9 | 35 | 19 | 25 | 14 | 12.5 | 28 |
| 01 | 30 x 11 | 40 | 19 | 30 | 16 | 12.5 | 30 |
| 01 | 38 x 10 | 48 | 19 | 38 | 15 | 14.2 | 29 |
| 01 | 38 x 14 | 48 | 19 | 38 | 19 | 14.2 | 33 |
| 02 | 20 x 7 | 30 | 31 | 20 | 22 | 15.0 | 57 |
| 02 | 25 x 9 | 35 | 31 | 35 | 22 | 15.0 | 57 |
| 02 | 30 x 11 | 40 | 31 | 30 | 22 | 22.0 | 57 |
| 02 | 38 x 10 | 48 | 31 | 38 | 22 | 22.0 | 57 |
| 02 | 38 x 14 | 48 | 31 | 38 | 25 | 22.0 | 60 |
| 02 | 45 x 14 | 57 | 31 | 45 | 29 | 22.0 | 64 |
| 02 | 45 x 18 | 57 | 31 | 45 | 29 | 22.0 | 64 |

83 622 ...

£
Y8

293.48 220
208.81 116
279.53 120
194.63 121
279.53 125
279.53 130
279.53 138
194.63 139
273.37 221
273.37 225
273.37 230
293.48 238
273.37 239
293.48 245
273.37 246

MultiChange – Spanner

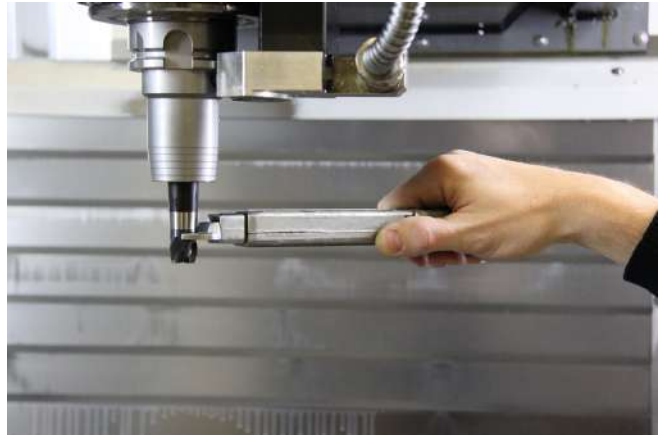


| DRVS mm | TQX Nm | 84 357 ... | |
|------------|-----------|------------|-------------------|
| | | £ | |
| | | Y8 | |
| 6 | 5 | 13.81 | 006 |
| 8 | 12,5 | 14.23 | 008 |
| 10 | 15 | 15.99 | 010 |
| 13 | 20 | 17.30 | 013 |
| 16 | 25 | 23.29 | 016 |
| 19 | 25 | 34.41 | 019 ¹⁾ |
| 21 | 25 | 37.66 | 021 ¹⁾ |
| 24 | 25 | 39.68 | 024 ¹⁾ |

1) only for MultiChange reamers

Assembly instructions for MultiChange head

- ▲ Cleaning of cone, thread and face of the milling head
- ▲ Cleaning of cone and thread face of the holder
- ▲ Cleaning of cone, thread and face of the holders
- ▲ Cutter head screwed clockwise by hand into the holder (be careful if using gloves)
- ▲ Clamp the exchange milling head with the torque wrench and the correct spanner to the specified tightening torque (according to table).
- ▲ The gap between the head and holder must be closed (force and positive connection)



Torque wrench must be horizontally aligned to key area, take care not to tilt in the key area

MultiChange – Spanner Head




| DRVS mm | TQX Nm | Square mm | 84 358 ... | |
|------------|-----------|--------------|------------|-------------------|
| | | | £ | |
| | | | Y8 | |
| 6 | 5 | 9 x 12 | 99.70 | 006 |
| 8 | 12,5 | 9 x 12 | 99.70 | 008 |
| 10 | 15 | 9 x 12 | 99.70 | 010 |
| 13 | 20 | 9 x 12 | 99.70 | 013 |
| 16 | 25 | 9 x 12 | 99.70 | 016 |
| 19 | 25 | 9 x 12 | 159.92 | 190 |
| 19 | 25 | 14 x 18 | 201.02 | 019 ¹⁾ |
| 21 | 25 | 9 x 12 | 223.60 | 210 |
| 21 | 25 | 14 x 18 | 244.96 | 021 ¹⁾ |
| 24 | 25 | 9 x 12 | 223.60 | 240 |
| 24 | 25 | 14 x 18 | 244.96 | 024 ¹⁾ |

1) only for MultiChange reamers



Important for the sensitive tuning is an additional placing of the hand on the exchange milling head. This means the torque can be better maintained.

 Suitable torque keys can be found on → **Page 280.**

TORX® Screwdriver



| | | | 80 950 ... | |
|------|----------|-----------|------------|-----|
| Size | LB mm | TQX Nm | £ Y7 | |
| T05 | 35 | 0,5 | 7.70 | 082 |
| T06 | 35 | 0,9 | 7.80 | 083 |
| T07 | 35 | 1,7 | 7.80 | 084 |
| T08 | 40 | 2,6 | 7.80 | 085 |
| T09 | 40 | 3,4 | 8.44 | 086 |
| T10 | 40 | 4,5 | 8.44 | 087 |
| T15 | 45 | 7,7 | 8.88 | 088 |
| T20 | 45 | 12,7 | 9.71 | 089 |

TORX® Screwdriver sets



| | | 80 950 ... | |
|-----------------------------------|--|------------|-----|
| Size | | £ Y7 | |
| T06, T07, T08, T09, T10, T15, T20 | | 73.14 | 090 |

TORX PLUS® Screwdriver



| | | | 80 950 ... | |
|--------|----------|-----------|------------|-----|
| Size | LB mm | TQX Nm | £ Y7 | |
| T05-IP | 35 | 0,5 | 9.73 | 057 |
| T06-IP | 35 | 0,9 | 9.73 | 058 |
| T07-IP | 35 | 1,7 | 9.53 | 059 |
| T08-IP | 40 | 2,6 | 10.55 | 060 |
| T09-IP | 40 | 3,4 | 10.34 | 061 |
| T10-IP | 40 | 4,5 | 10.34 | 062 |
| T15-IP | 45 | 7,7 | 10.91 | 063 |
| T20-IP | 45 | 12,7 | 12.14 | 064 |

TORX PLUS® Screwdriver sets



| | | 80 950 ... | |
|---|--|------------|-----|
| Size | | £ Y7 | |
| T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP | | 113.98 | 091 |

Allen key with cross handle



| | | 80 397 ... | |
|------------|-----------|------------|-----|
| DRVS mm | TQX Nm | £ Y7 | |
| 2 | 1,9 | 6.07 | 020 |
| 2,5 | 3,8 | 6.30 | 025 |
| 3 | 6,6 | 6.07 | 030 |
| 4 | 16 | 6.07 | 040 |
| 5 | 30 | 7.73 | 050 |
| 6 | 52 | 7.59 | 060 |
| 8 | 120 | 9.43 | 080 |
| 10 | 220 | 15.73 | 100 |

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



| | | 80 397 ... | |
|-------------------------------------|--|------------|-------|
| Size | | £ Y7 | |
| SW2, SW2,5, SW3, SW4, SW5, SW6, SW8 | | 91.83 | 99900 |

TORX® Screwdriver



| | | 80 950 ... | |
|------|----------|------------|-----|
| Size | LB mm | £ | |
| | | Y7 | |
| T06 | 60 | 10.63 | 100 |
| T07 | 60 | 10.63 | 101 |
| T08 | 60 | 10.63 | 102 |
| T09 | 60 | 11.44 | 103 |
| T10 | 80 | 11.54 | 104 |
| T15 | 80 | 11.89 | 105 |
| T20 | 100 | 12.20 | 106 |
| T25 | 100 | 13.30 | 107 |
| T30 | 115 | 14.15 | 092 |

TORX PLUS® Screwdriver



| | | 80 950 ... | |
|--------|----------|------------|-----|
| Size | LB mm | £ | |
| | | Y7 | |
| T06-IP | 60 | 13.56 | 116 |
| T07-IP | 60 | 13.30 | 117 |
| T08-IP | 60 | 11.08 | 039 |
| T09-IP | 60 | 14.36 | 118 |
| T10-IP | 80 | 14.90 | 119 |
| T15-IP | 80 | 15.30 | 120 |
| T20-IP | 100 | 16.39 | 121 |
| T25-IP | 100 | 17.13 | 122 |

TORX® MagicSpring®



| | | 80 950 ... | |
|--------|----------|------------|-----|
| Size | LB mm | £ | |
| | | Y7 | |
| MS T06 | 60 | 14.16 | 108 |
| MS T07 | 60 | 13.09 | 109 |
| MS T08 | 60 | 13.09 | 110 |
| MS T09 | 60 | 14.90 | 111 |
| MS T10 | 80 | 15.30 | 112 |
| MS T15 | 80 | 15.56 | 113 |
| MS T20 | 100 | 16.66 | 114 |
| MS T25 | 100 | 17.13 | 115 |
| MS T30 | 100 | 17.96 | 131 |

TORX PLUS® MagicSpring®



| | | 80 950 ... | |
|-----------|----------|------------|-----|
| Size | LB mm | £ | |
| | | Y7 | |
| MS T06-IP | 60 | 17.37 | 123 |
| MS T07-IP | 60 | 17.13 | 124 |
| MS T08-IP | 60 | 17.13 | 125 |
| MS T09-IP | 60 | 18.76 | 126 |
| MS T10-IP | 80 | 19.45 | 127 |
| MS T15-IP | 80 | 20.03 | 128 |
| MS T20-IP | 100 | 21.03 | 129 |



A stainless steel spring holds MagicSpring® Torx® and Torx Plus® screws in place.



TorqueFix® Handle

- ▲ with fixed torque moment
- ▲ Standard: EN ISO 6798, BS EN 26789, ASME B107.14M
- ▲ Accuracy: ± 6 %, based on national standards
- ▲ Bits to be clamped in the universal holder only



| TQX Nm | | 80 021 ... | |
|--------|--|------------|-------|
| | | £ | |
| 0,4 | | 118.43 | 00400 |
| 0,5 | | 118.43 | 00500 |
| 0,6 | | 149.42 | 006 |
| 0,7 | | 131.20 | 007 |
| 0,8 | | 134.16 | 008 |
| 0,9 | | 118.43 | 00900 |
| 1 | | 134.16 | 010 |
| 1,1 | | 117.35 | 01100 |
| 1,2 | | 147.94 | 012 |
| 1,5 | | 117.35 | 01500 |
| 1,6 | | 147.94 | 016 |
| 1,8 | | 147.94 | 018 |
| 2 | | 147.94 | 020 |
| 2,5 | | 117.35 | 02500 |
| 3 | | 156.39 | 030 |
| 3,2 | | 156.39 | 032 |
| 3,8 | | 123.96 | 03800 |
| 4 | | 156.39 | 040 |
| 5 | | 156.39 | 050 |
| 5,5 | | 175.49 | 055 |
| 6 | | 175.49 | 060 |
| 7,2 | | 138.48 | 07200 |

TorqueVario®-S

- ▲ Patented handle

Scope of supply:

incl. Torque-Setter setting tool



| TQX Nm | | 80 950 ... | |
|-----------|--|------------|-----|
| | | £ | |
| 0,4 - 1,0 | | 208.48 | 046 |
| 0,5 - 2,0 | | 207.73 | 191 |
| 0,8 - 5,0 | | 195.92 | 192 |
| 2,0 - 7,0 | | 232.67 | 193 |

Universal holder for Bits

- ▲ 162 mm long



| for | | 80 950 ... | |
|----------------------|--|------------|-----|
| | | £ | |
| DIN3126-C/E 6,3-1/4" | | 12.86 | 014 |

TorqueFix® key

- ▲ With fixed torque
- ▲ Ergonomic key handle, extremely easy to use thanks to compact design
- ▲ Specially designed for difficult to access screws and constricted openings
- ▲ Click signal when the set torque value is reached
- ▲ Standards: DIN EN ISO 6789
- ▲ Accuracy: ± 6%, traceable to national standards

Scope of supply:

incl. Plastic box and inspection report



| TQX Nm | | DRVS mm | | 80 392 ... | |
|--------|--|---------|--|------------|-------|
| | | | | £ | |
| 0,5 | | 4 | | 94.02 | 00500 |
| 0,6 | | 4 | | 94.02 | 00600 |
| 0,9 | | 4 | | 94.02 | 00900 |
| 1,1 | | 4 | | 94.02 | 01100 |
| 1,2 | | 4 | | 94.02 | 01200 |
| 1,4 | | 4 | | 94.02 | 01400 |
| 2,0 | | 4 | | 94.02 | 02000 |
| 2,5 | | 4 | | 94.02 | 02500 |
| 3,0 | | 4 | | 94.02 | 03000 |
| 3,8 | | 4 | | 94.02 | 03800 |
| 4,0 | | 4 | | 94.02 | 04000 |

Interchangeable blade for hex drive



| Size | TQX Nm | short 75 mm | | long 175 mm | |
|-------|--------|-------------|---------|-------------|---------|
| | | £ Y7 | Article | £ Y7 | Article |
| SW1,5 | 0,9 | 7.68 | 01500 | 11.39 | 151 |
| SW2 | 1,8 | 7.68 | 02000 | 11.39 | 152 |
| SW2,5 | 3,8 | 7.68 | 02500 | 11.39 | 153 |
| SW3 | 5,5 | 7.68 | 03000 | 11.39 | 154 |
| SW4 | 8,0 | 7.68 | 04000 | 11.39 | 155 |

Replaceable Blade for TORX®



| Size | TQX Nm | short 75 mm | | long 175 mm | |
|------|--------|-------------|---------|-------------|---------|
| | | £ Y7 | Article | £ Y7 | Article |
| T05 | 0,4 | | | 9.21 | 048 |
| T06 | 0,6 | 7.68 | 00600 | 8.49 | 031 |
| T07 | 0,9 | 7.68 | 00700 | 8.49 | 032 |
| T08 | 1,3 | 7.68 | 00800 | 8.49 | 033 |
| T09 | 2,5 | 7.68 | 00900 | 8.49 | 034 |
| T10 | 3,8 | 7.68 | 01000 | 8.49 | 035 |
| T15 | 5,5 | 7.68 | 01500 | 8.49 | 036 |
| T20 | 8,0 | 7.68 | 02000 | 8.49 | 037 |
| T25 | 8,0 | 7.68 | 02500 | 8.49 | 038 |

Replaceable Blade for TORX PLUS®



| Size | TQX Nm | long 175 mm | |
|--------|--------|-------------|---------|
| | | £ Y7 | Article |
| T05-IP | 0,5 | 8.49 | 049 |
| T06-IP | 0,8 | 8.49 | 050 |
| T07-IP | 1,3 | 8.49 | 051 |
| T08-IP | 2,0 | 8.49 | 043 |
| T09-IP | 3,0 | 8.49 | 052 |
| T10-IP | 4,5 | 8.49 | 053 |
| T15-IP | 6,6 | 8.49 | 054 |
| T20-IP | 8,0 | 8.49 | 055 |
| T25-IP | 8,0 | 8.49 | 056 |



Interchangeable blade, short 75 mm, suitable for TorqueFix® Key article number 80 392 ... → Page 290.

Interchangeable blade, long 175 mm, suitable for TorqueFix® Grip article number 80 021 ... and TorqueVario®-S article number 80 950 ... → Page 290.

TORX® short bit (25 mm)

▲ DIN3126-C 6,3 – 1/4"



| | | 80 950 ... | |
|------|--------|------------|-----|
| Size | TQX Nm | £ Y7 | |
| T06 | 0,9 | 1.87 | 015 |
| T07 | 1,7 | 1.87 | 016 |
| T08 | 2,6 | 1.87 | 017 |
| T09 | 3,4 | 1.87 | 018 |
| T10 | 4,5 | 1.87 | 019 |
| T15 | 7,7 | 1.87 | 020 |
| T20 | 12,7 | 1.87 | 021 |
| T25 | 19 | 1.87 | 022 |
| T30 | 37,4 | 1.58 | 093 |

TORX® long bit (50 mm)

▲ DIN3126-E 6,3 – 1/4"



| | | 80 950 ... | |
|------|--------|------------|-----|
| Size | TQX Nm | £ Y7 | |
| T06 | 0,9 | 5.98 | 023 |
| T07 | 1,7 | 5.98 | 024 |
| T08 | 2,6 | 5.98 | 025 |
| T09 | 3,4 | 5.98 | 026 |
| T10 | 4,5 | 5.98 | 027 |
| T15 | 7,7 | 5.98 | 028 |
| T20 | 12,7 | 5.98 | 029 |
| T25 | 19 | 5.98 | 030 |
| T30 | 37,4 | 7.27 | 094 |

TORX PLUS® short bit (25 mm)

▲ DIN3126-C 6,3 – 1/4"



| | | 80 950 ... | |
|--------|--------|------------|-----|
| Size | TQX Nm | £ Y7 | |
| T08-IP | 2,6 | 4.49 | 068 |
| T09-IP | 3,4 | 4.49 | 069 |
| T10-IP | 4,5 | 4.49 | 070 |
| T15-IP | 7,7 | 4.49 | 071 |
| T20-IP | 12,7 | 4.49 | 072 |
| T25-IP | 19 | 4.49 | 073 |

TORX PLUS® long bit (50 mm)

▲ DIN3126-E 6,3 – 1/4"



| | | 80 950 ... | |
|--------|--------|------------|-----|
| Size | TQX Nm | £ Y7 | |
| T08-IP | 2,6 | 9.10 | 040 |
| T09-IP | 3,4 | 8.94 | 077 |
| T10-IP | 4,5 | 8.94 | 078 |
| T15-IP | 7,7 | 8.94 | 079 |
| T20-IP | 12,7 | 8.94 | 080 |
| T25-IP | 19 | 8.94 | 081 |

Bit – hexagonal (50 mm)

▲ DIN3126-E 6,3 – 1/4"



| | | 80 398 ... | |
|-------|--|------------|-------|
| Size | | £ Y7 | |
| SW1,5 | | 7.77 | 01500 |
| SW2 | | 7.77 | 02000 |
| SW2,5 | | 7.77 | 02500 |
| SW3 | | 7.06 | 03000 |
| SW3,5 | | 7.84 | 03500 |
| SW4 | | 5.80 | 04000 |
| SW4,5 | | 7.84 | 04500 |
| SW5 | | 7.06 | 05000 |
| SW6 | | 5.80 | 06000 |
| SW8 | | 12.20 | 08000 |

TORX PLUS® Allen key



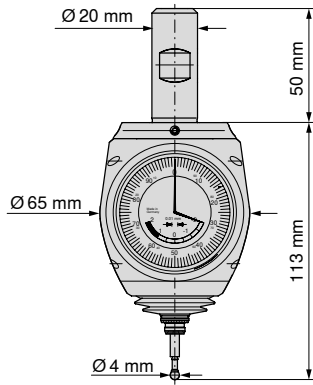
| | | 80 951 ... | |
|--------|--------|------------|-------|
| Size | OAL mm | £ Y7 | |
| T07-IP | 44 | 9.40 | 00700 |
| T08-IP | 47 | 9.40 | 00800 |
| T09-IP | 51 | 9.40 | 00900 |
| T10-IP | 54 | 9.61 | 01000 |
| T15-IP | 58 | 9.70 | 01500 |
| T20-IP | 62 | 10.33 | 02000 |
| T25-IP | 67 | 10.86 | 02500 |
| T27-IP | 73 | 11.29 | 02700 |
| T30-IP | 79 | 12.17 | 03000 |
| T40-IP | 88 | 13.88 | 04000 |

Universal 3D-tester

- ▲ Quick and accurate positioning
- ▲ For locating and/or setting the zero point of the workpiece
- ▲ with adjustable concentricity
- ▲ Usable in all 3 axes (x, y, z)
- ▲ For all CNC and erosion machines (insulation between stylus and case)
- ▲ Reading of actual dimensions is independent of direction
- ▲ Reading precision 0.01 mm

Scope of supply:

3D tester including tracer insert and Allen key



85 290 ...

£
XX
400.39 100

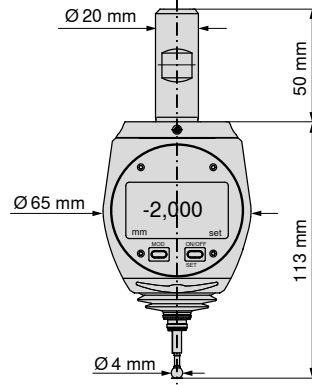
Universal-3D-Tester

Digital 3D tester

- ▲ Quick and accurate positioning
- ▲ For locating and/or setting the zero point of the workpiece
- ▲ with adjustable concentricity
- ▲ Usable in all 3 axes (x, y, z)
- ▲ For all CNC and erosion machines (insulation between stylus and case)
- ▲ Reading of actual dimensions is independent of direction
- ▲ Reading precision 0.001 mm

Scope of supply:

3D tester including tracer insert and Allen key



85 291 ...

£
XX
911.19 100

Digital 3D Tester

Zero height setting gauge

- ▲ to determine the point of reference and/or for adjusting tools „to zero“
- ▲ Plate Ø 10 mm
- ▲ Plate is hardened, non magnetic

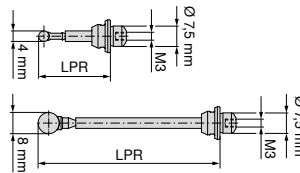


85 900 ...

| | | | |
|-----|--------|-----|--|
| OAH | £ | | |
| mm | Y7 | | |
| 100 | 267.08 | 018 | |

Stylus for 3D-tester

- ▲ With movement of 2 mm beyond the zero point a break-off ceramic insert prevents damage to the unit
- ▲ If the stylus is broken remove and insert a new stylus
- ▲ Check concentricity and adjust if necessary



85 290 ...

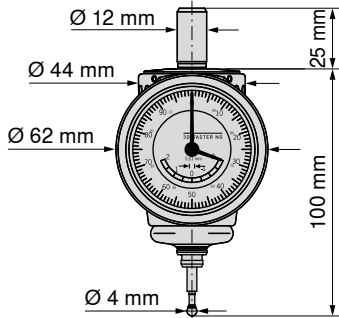
| | | | |
|-----|-------|-----|--|
| LPR | £ | | |
| mm | XX | | |
| 25 | 31.42 | 102 | |
| 65 | 66.95 | 104 | |

Universal 3D-Tester HQ

- ▲ fast and accurate positioning at reference edges
- ▲ Development of the existing universal 3D-Testers
- ▲ improved mechanics
- ▲ compact size
- ▲ characterised by over travel safety
- ▲ Functionality as with 85 290 100
- ▲ Accuracy 0,01 mm

Scope of supply:

3D tester including tracer insert and Allen key



85 292 ...
£
XX
419.45 100

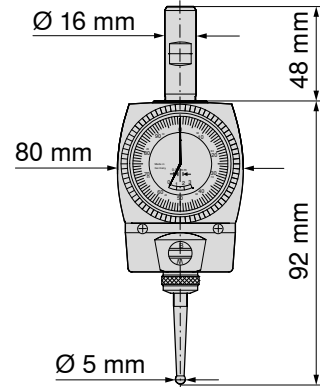
Universal 3D-Tester HQ

Centre finder

- ▲ Centralise holes and features quickly and accurately
- ▲ simple operation
- ▲ Dial gauge remains in the operators vision during process
- ▲ Centring accuracy 0,003 mm

Scope of supply:

3D-Tester incl. straight stylus and telescopic stop



85 299 ...
£
XX
528.50 100

Centre finder

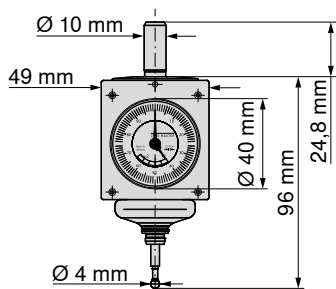
Range with probe tip Ø 5 mm holes
Ø 6–125 mm, shaft Ø 0–125 mm

Universal 3D-Tester Mini

- ▲ fast and accurate positioning at reference edges
- ▲ very small universal 3D-Tester
- ▲ particularly suitable for machines with small spindle taper e.g. SK 30 or HSK 32
- ▲ low overhang length thanks to short housing
- ▲ characterised by over travel safety
- ▲ Functionality as with 85 290 100
- ▲ Accuracy 0,01 mm

Scope of supply:

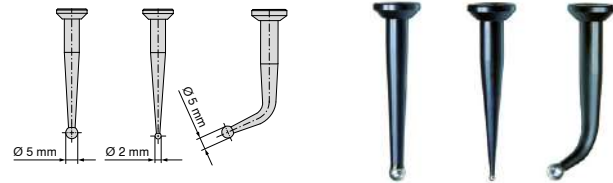
3D tester including tracer insert and Allen key



85 295 ...
£
XX
400.39 100

Universal 3D-Tester Mini

Stylii for Centre Finder



85 299 ...
£
XX

| | | |
|-------------------------------|-------|-----|
| Straight stylus / Ball-Ø 2 mm | 40.04 | 102 |
| Straight stylus / Ball-Ø 5 mm | 39.28 | 104 |
| Curved stylus / Ball Ø 5 mm | 48.06 | 106 |

Telescopic rod for Centre Finder



85 299 ...
£
XX
15.72 111

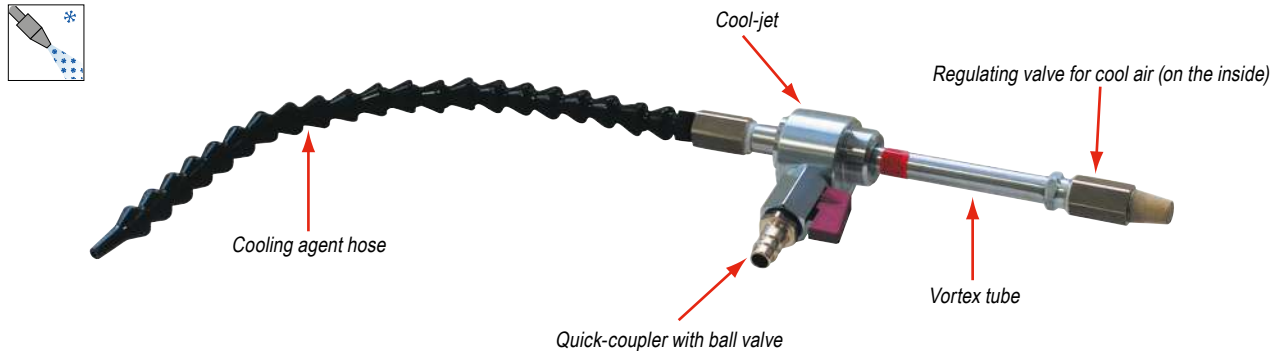
| DCONMS mm | OAL mm |
|-----------|--------|
| 6 | 478 |

Advantages with the use of the cool air nozzle

The main advantages are that cooling agent disposal is not required and tool life increases up to 100 % when dry machining

In order to improve the service life when dry machining, we recommend the use of our cooling nozzle, which is applicable with a normal compressed air connection from a pressure of 6 bar.

Not only for cooling the tool and workpiece it is primarily for chip removal to prevent chip jamming.



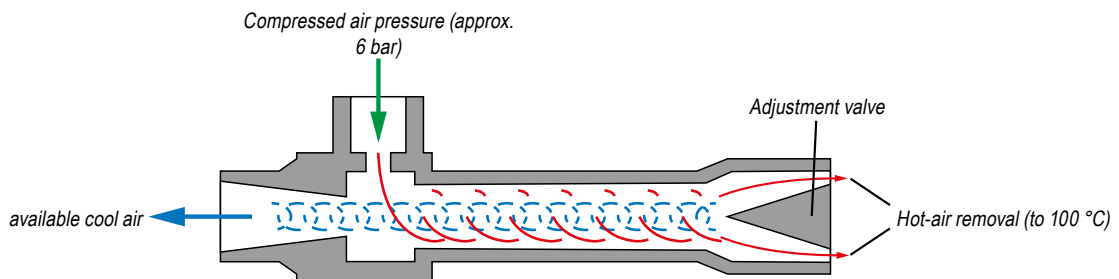
| Cool-jet | | 81 900 ... | Accessories | | 81 900 ... |
|---------------------------------|--|------------|--|--|------------|
| | | £ | | | £ |
| 3-7 bar air pressure, at -46 °C | | Y7 | | | Y7 |
| | | 1,530.41 | Magnetic plate Ø 80 mm without clamping arm | | 81.94 |
| | | 100 | Spare tube, length 300 mm | | 81.94 |
| | | | Jet silencer (air filter) | | 17.21 |
| | | | Clamping arm, length 75 mm | | 241.78 |
| | | | Complete set (with magnetic set and clamping arm), weight 0,4 kg | | 319.06 |
| | | | | | 107 |

Technical description – operating instruction


The principle of the cold-air nozzle is based on the use of vortex tubes. Ordinary air is divided into cold and hot air streams.

Without additional power supply or moving parts the cool air nozzle can produce **cooling performance of up to 733 W** or **Temperatures of approx. -42 °C** are produced and requires only operating pressure air of approx. 6 bar.

A water trap or service unit should be mounted. A regulating valve in the hot-air outlet regulates the temperatures and currents



1 Utilizable air temperature measured at the effective discharge of the vortex tube (not the nozzle end)

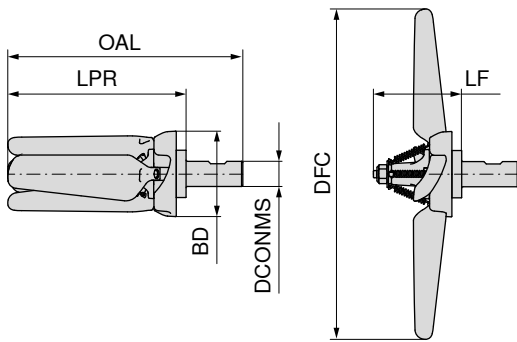
1  Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

| Entrance pressure | 3 bar | -31 °C | up to | -6 °C |
|-------------------|-------|--------|-------|--------|
| | 4 bar | -35 °C | up to | -8 °C |
| | 5 bar | -39 °C | up to | -10 °C |
| | 6 bar | -42 °C | up to | -11 °C |
| | 7 bar | -46 °C | up to | -13 °C |

1 In order to operate the regulating valve, the silencer must be unscrewed - there is a burn danger! The valve of the hot air side can reach up to 100 °C: Before contact, allow cooling!

Cleaning propeller – large

- ▲ Chip and emulsion removal or drying processes via the tool spindle
- ▲ Simple replacement of the rotor blades



IK central

80 399 ...

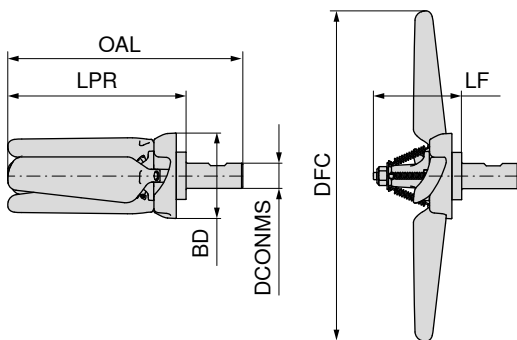
£
Y7

544.45 02000

| DCONMS | OAL | LPR | LF | DFC | BD | RPMX |
|--------|-------|-------|-------|-----|-------|-------------|
| mm | mm | mm | mm | mm | mm | 1/min. |
| 20 | 186.3 | 141.3 | 69.75 | 254 | 67.68 | 5000 - 8000 |

Cleaning propeller – small

- ▲ Chip and emulsion removal or drying processes via the tool spindle
- ▲ Simple replacement of the rotor blades



IK central

80 399 ...

£
Y7

437.68 16000

| DCONMS | OAL | LPR | LF | DFC | BD | RPMX |
|--------|-----|-----|----|-----|----|--------------|
| mm | mm | mm | mm | mm | mm | 1/min. |
| 20 | 135 | 90 | 70 | 160 | 68 | 6000 - 12000 |

Rotor blade kit



1 rotary blade and 1 tension spring 4 rotary blades and 4 tension springs

80 399 ... 80 399 ...

| Size | £ Y7 | 30100 | £ Y7 | 30200 |
|-------|---------|-------|---------|-------|
| Large | 66.79 | 30100 | 258.13 | 30200 |
| Small | 46.07 | 36000 | 184.29 | 46000 |

Driven Tools

CERATIZIT offers a comprehensive portfolio of driven tool holders for the turrets or machines of leading manufacturers. There is almost no limit to the range of types available. You will find a small selection of our holders here.

Examples from our driven tooling range



Axial drilling and milling head



Radial drilling and milling head



Rear offset radial drilling and milling head



Double radial drilling and milling head



Double axial drilling and milling head



Offset axial drilling and milling head



Swivel head



Modular milling

Summary of machine turret manufacturers and interfaces for which CERATIZIT can supply driven tools

- | | | | |
|--------------|-----------|--------------------------|-----------------|
| ▲ Sauter | ▲ DIN1809 | ▲ Baruffaldi Toem | ▲ BMT (bolt on) |
| ▲ Baruffaldi | ▲ DIN5480 | ▲ Bevel gear milling | |
| ▲ Duplomatic | ▲ DIN5482 | ▲ Spline / tooth milling | |

Technical Advice

Are you interested in our driven tools ? If so please contact your technical sales engineer who will be glad to assist you. Alternatively, you can contact our office based internal technical sales engineers who can be reached on our freephone number.

Enquiry Form

Should you have questions about driven tools you can find a detailed questionnaire on our website in the download area. Carefully complete the form and send it via e-mail or printed fax → cutting.tools/en/download

Modular quick-change system for driven tools

You want to optimize your setup time? CERATIZIT offers you several options! With each axial and radial driven tool you are prepared through the exchange of different modules for different machining demands.

Varia VX

The new quick change system for heavy duty machining

The face & taper contact interface ensures maximum concentricity. The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

Clamping and releasing takes place via a segmented gear wheel equipped with 3 multifunctional cams. When tightened with a radially mounted clamping screw, the 3-point clamping pulls the tool evenly into its operating position. When releasing the tool force is applied mechanically via a sliding cam and the tool is released for removal from the adapter.



The advantages at a glance

- ▲ Cutting tools are preset off the machine
- ▲ Quick change thanks to only one clamping point
- ▲ No risk of injury when changing tools
- ▲ Transverse force-free clamping of the tools
- ▲ Safe torque transmission
- ▲ No loose parts



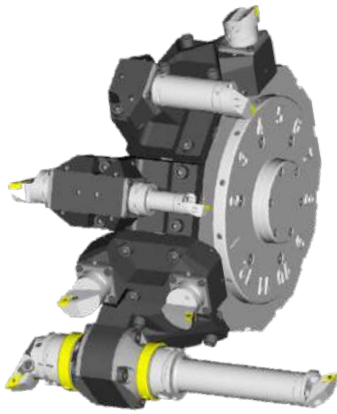
System Preci-Flex® – The stable solution for long tool life and high surface quality

The internal cone of the driven tool is suitable for any commercial type ER collets. Through taper & face contact ≤ 0.01 mm system concentricity and ≤ 0.005 mm repeatability is achieved and four plane-side clamp screws achieve maximum system stability and rigidity.



The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and HSK holders.

Quick-Change

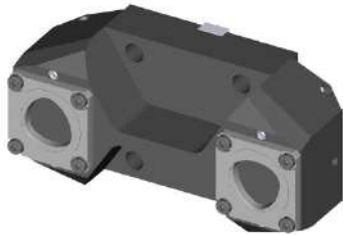


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

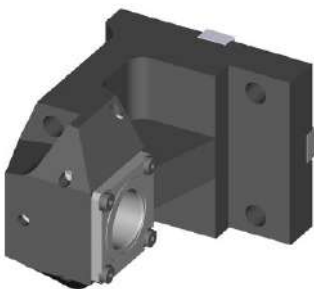
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



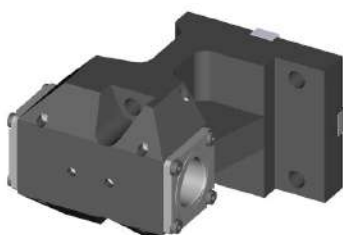
Tool holder single and straight



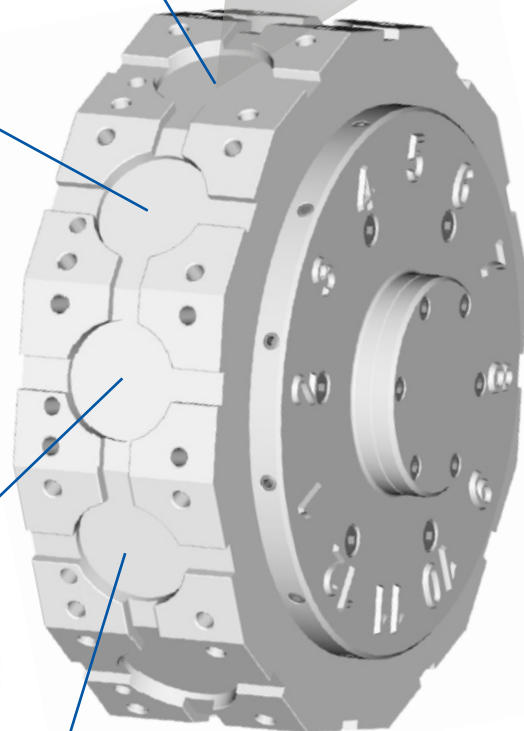
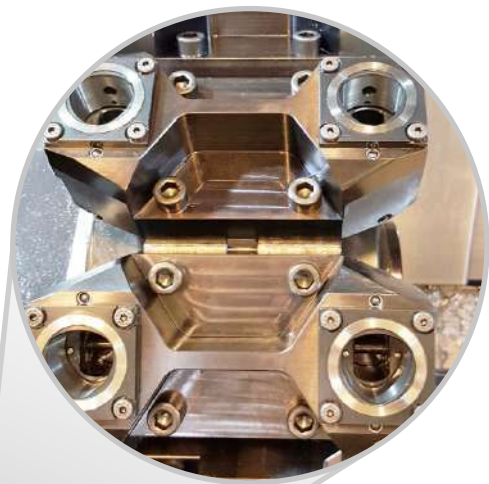
Tool holder double and straight



Single angle tool holder



Double angle tool holder

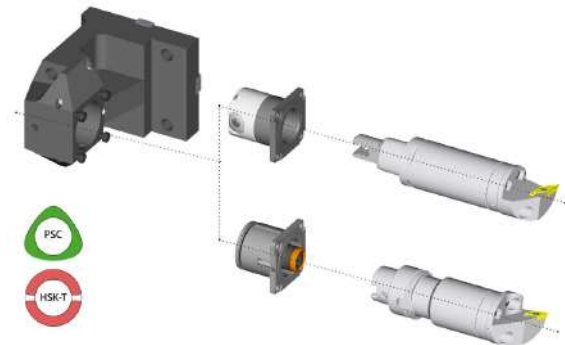


Revolverdisk BMT/VDI/...

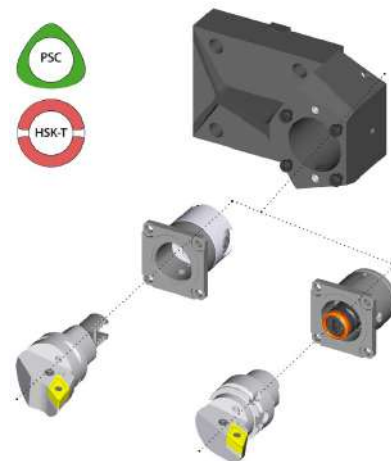
HSK/PSC clamping units

➤ The tool holders are fitted with either an HSK or PSC clamping unit.

➤ Clamping units are available in sizes HSK 40/63/100 and PSC 40/50/63.

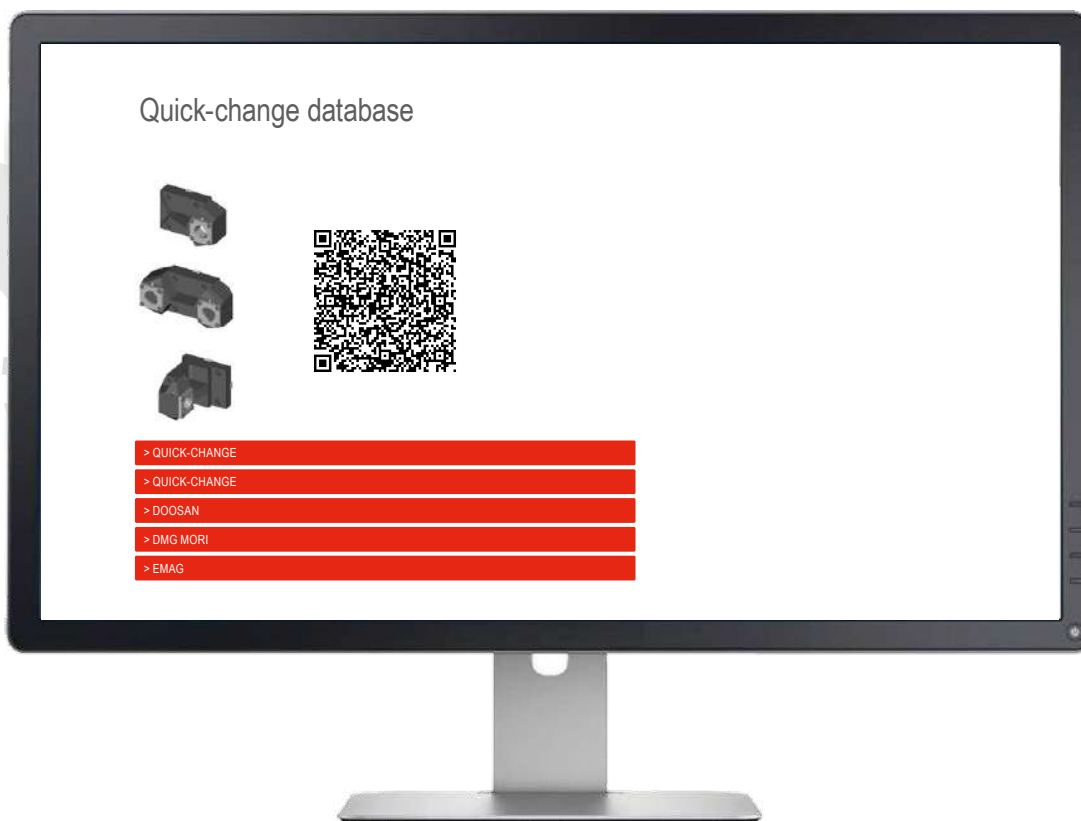


➤ The toolholders permit the flexibility to be adapted to the customer's requirements.



Online database

Our quick-change tool holders are individually adapted to turning machines to ensure the greatest-possible levels of flexibility and efficiency. Using the online database, systems of previously specified machine types can be evaluated in order to obtain an initial overview.



Information on enquiry process

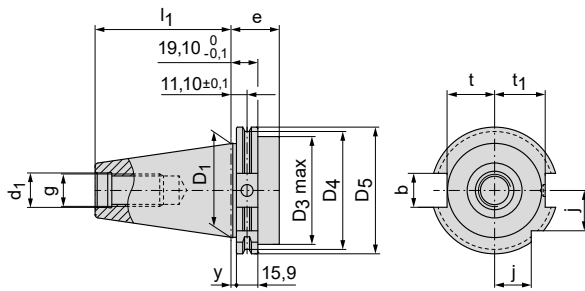
To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process. Please fill in this form carefully and send it to us by email or fax.

→ cutting.tools/en/download-quickchange

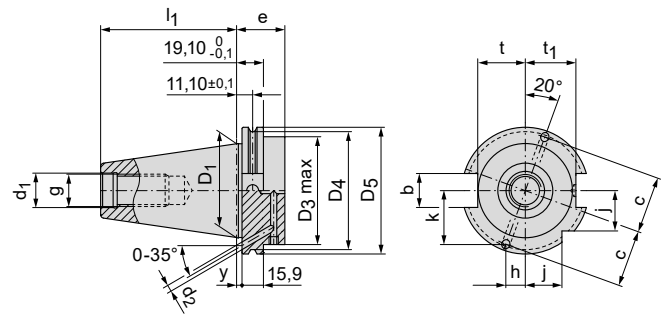
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

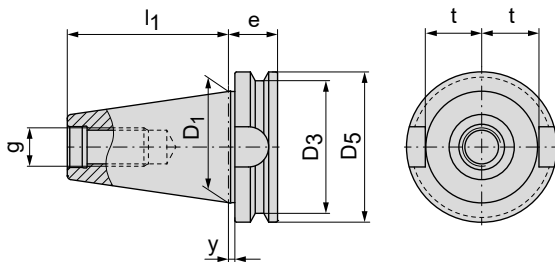


ISO 7388-1 – 871 Form B



| | D ₁ mm | D _{3 max} mm | D ₄ mm | D ₅ mm | l_1 ^{+0.2} mm | g | d ₁ ^{H7} mm | e mm | y ^{±0.1} mm | t mm | t ₁ mm | j mm | d ₂ mm | h mm | k mm | c mm | b mm | |
|--------------|----------------------|--------------------------|----------------------|----------------------|-----------------------------|------|------------------------------------|---------|-------------------------|---------|----------------------|---------|----------------------|---------|---------|---------|---------|------|
| SK 30 | 31,75 | 45 | 44,30 | 50 | 47,8 | M 12 | 13 | 35 | 3,2 | 16,4 | 19 | 15 | | | | | | 16,1 |
| SK 40 | 44,45 | 50 | 56,25 | 63,55 | 68,4 | M 16 | 17 | 35 | 3,2 | 22,8 | 25 | 18,5 | 4 | 9,2 | 25,4 | 27 | | 16,1 |
| SK 50 | 69,85 | 80 | 91,25 | 97,5 | 101,75 | M 24 | 25 | 35 | 3,2 | 35,5 | 37,7 | 30 | 6 | 14,4 | 39,5 | 42 | | 25,7 |

ISO 7388-2



Maximum recommended rpm for steep taper toolholders:

SK / BT 30 to 20,000 1/min.

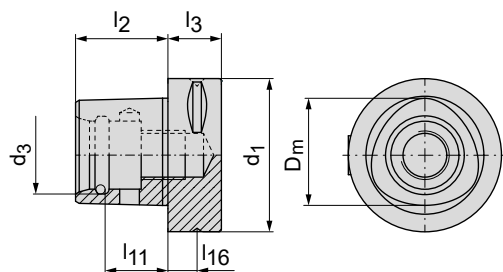
SK / BT 40 to 20,000 1/min.

SK / BT 50 to 16,000 1/min.

| | D ₁ mm | D ₃ mm | D ₅ mm | l ₁ mm | g | e mm | t mm | y mm | b mm |
|--------------|----------------------|----------------------|----------------------|----------------------|------|---------|---------|---------|---------|
| BT 30 | 31,75 | 38 | 46 | 48,4 | M 12 | 22 | 16,3 | 2 | 16,1 |
| BT 40 | 44,45 | 53 | 63 | 65,4 | M 16 | 27 | 22,5 | 2 | 16,1 |
| BT 50 | 69,85 | 85 | 100 | 101,8 | M 24 | 38 | 35,3 | 3,2 | 25,7 |

Technical Data for Polygon shank adapters

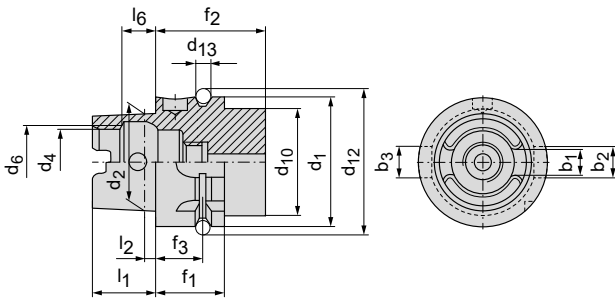
ISO 26623-1



| Shank size | d ₁ mm | d ₃ ^{±0.05} mm | l ₂ ^{±0.1} mm | l ₃ mm | l ₁₁ ^{±0.1} mm | l ₁₆ mm | D _m mm |
|------------|----------------------|---------------------------------------|--------------------------------------|----------------------|---------------------------------------|-----------------------|----------------------|
| 32 | 32 | 16,5 | 19 | 15 | 13,5 | 9 | 22 |
| 40 | 40 | 20 | 24 | 20 | 17,5 | 12 | 28 |
| 50 | 50 | 24 | 30 | 20 | 22 | 12 | 35 |
| 63 | 63 | 32 | 38 | 22 | 26 | 12 | 44 |
| 80 | 80 | 38 | 48 | 30 | 34 | 12 | 55 |

Technical Data for HSK Adapters

ISO 12164 – HSK-A / HSK-C



Maximum rpm recommended for HSK adapters:

HSK-A 32 to 50.000 $\frac{1}{min}$.

HSK-A 40 to 42.000 $\frac{1}{min}$.

HSK-A 50 to 30.000 $\frac{1}{min}$.

HSK-A 63 to 25.000 $\frac{1}{min}$.

HSK-A 100 to 16.000 $\frac{1}{min}$.

| | b ₁ mm | b ₂ mm | b ₃ mm | d ₁ mm | d ₂ mm | d ₄ mm | d ₆ mm | d ₁₀ mm | d ₁₂ mm | d ₁₃ mm | f ₁ mm | f ₂ mm | f ₃ mm | l ₁ mm | l ₂ mm | l ₆ mm |
|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| HSK 32 | 7,05 | 7 | 9 | 32 | 24 | 17 | 19 | 26 | 37 | 4 | 20 | 35 | 16 | 16 | 3,2 | 8,92 |
| HSK 40 | 8,05 | 9 | 11 | 40 | 30 | 21 | 23 | 34 | 45 | 4 | 20 | 35 | 16 | 20 | 4 | 11,42 |
| HSK 50 | 10,54 | 12 | 14 | 50 | 38 | 26 | 29 | 42 | 59,3 | 7 | 26 | 42 | 18 | 25 | 5 | 14,13 |
| HSK 63 | 12,54 | 16 | 18 | 63 | 48 | 34 | 37 | 53 | 72,3 | 7 | 26 | 42 | 18 | 32 | 6,3 | 18,13 |
| HSK 100 | 20,02 | 20 | 22 | 100 | 75 | 53 | 58 | 88 | 109,75 | 7 | 29 | 45 | 20 | 50 | 10 | 28,56 |

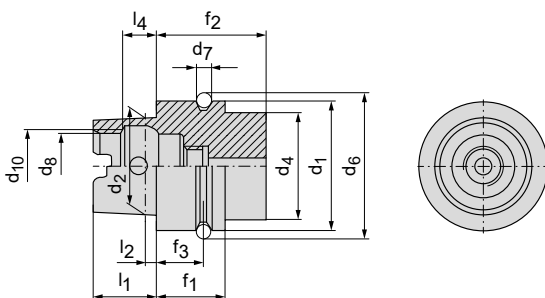
ISO 12164 – HSK-A

- ▲ Applied for machining centres, milling and special machines with automatic tool change
- ▲ **Central axial coolant supply via the coolant pipe**
- ▲ Torque transmission via 2 driving grooves at the taper end
- ▲ 2 grooves on the flange for the tool magazine, positioning notch, bore for data storage medium DIN 69873 in the flange

ISO 12164 – HSK-C

- ▲ Applied for machine spindles without automatic tool change as well as tool extensions and reducers
- ▲ **Central axial coolant supply via the coolant pipe**
- ▲ Torque transmission via 2 driving grooves at the taper end

ISO 12164 – HSK-E



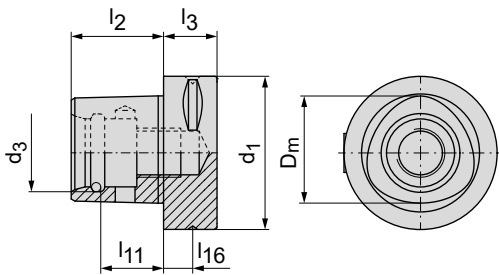
| | d ₁ mm | d ₂ mm | d ₄ mm | d ₆ mm | d ₇ mm | d ₈ mm | d ₁₀ mm | f ₁ mm | f ₂ mm | f ₃ mm | l ₁ mm | l ₂ mm | l ₄ mm |
|--------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| HSK 40 | 40 | 30 | 34 | 45 | 4 | 21 | 23 | 20 | 35 | 16 | 20 | 4 | 11,42 |
| HSK 50 | 50 | 38 | 42 | 59,3 | 7 | 26 | 29 | 26 | 42 | 18 | 25 | 5 | 14,13 |
| HSK 63 | 63 | 48 | 53 | 72,3 | 7 | 34 | 37 | 26 | 42 | 18 | 32 | 6,3 | 18,13 |

ISO 12164 – HSK-E

- ▲ Applied for high rpm (HSC) for high speed spindles with automatic tool change
- ▲ Rotation symmetrical, without driving grooves
- ▲ Torque transmission through friction
- ▲ **Possibility of central coolant supply via coolant pipe**

Technical Information for Polygon Shank Adapters

ISO 26623-1



| Shank size | d_1 | d_3 $\pm 0,05$ | l_2 $\pm 0,1$ | l_3 | l_{11} $\pm 0,1$ | l_{16} | D_m |
|------------|-------|---------------------|--------------------|-------|-----------------------|----------|-------|
| 32 | 32 | 16,5 | 19 | 15 | 13,5 | 9 | 22 |
| 40 | 40 | 20 | 24 | 20 | 17,5 | 12 | 28 |
| 50 | 50 | 24 | 30 | 20 | 22 | 12 | 35 |
| 63 | 63 | 32 | 38 | 22 | 26 | 12 | 44 |
| 80 | 80 | 38 | 48 | 30 | 34 | 12 | 55 |

Advantages of the PSC interface

The repeatability of the PSC shank is ± 2 microns



The tapered polygon in conjunction with the tight tolerance provides backlash-free centering also acts as pull back. The PSC cone has very high rigidity and bending strength. The main advantages of this interface are the transmittable torque stability, the resistance against radial forces acting on the tool and the exact center height. This means high feed rates can be achieved on large material cross sections. The PSC interface is ideally suited for all machining operations such as drilling, turning and milling.

High Pressure Chuck

HPC milling with optimum damping

High pressure clamping with optimum damping properties was the aim in the development of the high-pressure chuck. Here, all applications over a continuous operation test were covered over thousands of machining operations. In addition, extensive continuous pressure and positive pressure tests, and vibration measurements were carried out directly on the machine spindle.

The main technical characteristics of the high-pressure Milling Chuck are

- ▲ high damping properties
- ▲ Spindle-friendly
- ▲ maximum stability and strength
- ▲ high holding force and torque transmission
- ▲ 3 µm radial run-out
- ▲ Balanced to G2,5 at n_{max} 25.000 1/min.
- ▲ short tool change time
- ▲ no additional peripherals required
- ▲ MMS suitable
- ▲ maintenance free

Clamping of shanks with flats possible with or without reduction sleeve


HSS shank DIN1835 and
Solid Carbide shank DIN6535



Clamping Force Comparison with Different Systems

This comparison shows the higher retention forces of the Milling Chuck. Especially with larger diameters high holding force is important when HPC machining so that the tool is not pulled out of the holder. Milling Chuck now offers this process reliability.

| Shank diameter in mm | 16 | 18 | 20 | 25 | 32 |
|------------------------------------|--|-----------|-----------|-----------|-----------|
| Holder Type | Maximum transmissible torque with shank tolerance h6 in Nm | | | | |
| Shrink fit adapter | 200 | 290 | 450 | 530 | 700 |
| Standard hydraulic chucks | 160 | 200 | 330 | 400 | 650 |
| High Pressure Milling Chuck | 280 - 380 | 360 - 450 | 550 - 650 | 650 - 750 | 800 - 890 |

 Minimum clamping depth the same as for hydraulic chucks



The main applications for Milling Chuck

- ▲ HPC Milling
- ▲ HSC Milling
- ▲ Hard Machining
- ▲ Drilling
- ▲ Reaming

Key Benefits

- ▲ Increased Process Security
- ▲ Longer Tool Life
- ▲ Improved Surface Quality
- ▲ Extended spindle life

Static clamping moments

Static clamping moments of the Centro-P and HDC ER precision collet chucks with ER collets with different tightening torques measured at the lock nut.

Centro-P

| Clamping diameter (d1 h6) | 2 | 3 | 3,5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | mm | |
|----------------------------|---|-----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| ER 16 torque moment 30 Nm | 2 | 3,5 | 5 | | | | | | | | | | | | | | | | | | | | | | | Nm |
| ER 16 torque moment 50 Nm | | | | 12 | 20 | 30 | 45 | 60 | 72 | 80 | | | | | | | | | | | | | | | | Nm |
| ER 25 torque moment 40 Nm | | | | 10 | 20 | 40 | | | | | | | | | | | | | | | | | | | | Nm |
| ER 25 torque moment 75 Nm | | | | | | | 62 | 75 | 85 | 95 | | | | | | | | | | | | | | | | Nm |
| ER 25 torque moment 90 Nm | | | | | | | | | | | 122 | 145 | 160 | 175 | 190 | 200 | | | | | | | | | | Nm |
| ER 32 torque moment 60 Nm | | | | 20 | 30 | 40 | | | | | | | | | | | | | | | | | | | | Nm |
| ER 32 torque moment 120 Nm | | | | | | | 75 | 90 | 110 | 120 | 135 | 150 | 160 | 180 | 190 | | | | | | | | | | | Nm |
| ER 32 torque moment 140 Nm | | | | | | | | | | | | | | | | 220 | 240 | 260 | 280 | 300 | | | | | | Nm |
| ER 40 torque moment 70 Nm | | | | 60 | 75 | 90 | 100 | | | | | | | | | | | | | | | | | | | Nm |
| ER 40 torque moment 110 Nm | | | | | | | 110 | 125 | 140 | 150 | | | | | | | | | | | | | | | | Nm |
| ER 40 torque moment 150 Nm | | | | | | | | | | | 200 | 220 | 240 | 260 | 300 | 350 | | | | | | | | | | Nm |
| ER 40 torque moment 200 Nm | | | | | | | | | | | | | | | | | | | 420 | 440 | 460 | 480 | 515 | 530 | | Nm |

HDC – Heavy Duty Chuck

| Clamping diameter (d1 h6) | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | mm | | | | | | |
|--------------------------------|---|---|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|--|--|--|-----|--|----|
| ER 32 tightening torque 40 Nm | | | 25 | 37 | 50 | | | | | | | | | | | | | | | | | | | | | Nm |
| ER 32 torque moment 120 Nm | | | | | | 93 | 112 | 137 | 150 | 168 | 187 | 200 | 225 | 237 | | | | | | | | | | | | Nm |
| ER 32 torque moment 140 Nm | | | | | | | | | | | | | | | 275 | 300 | 325 | 350 | | | | | | | | Nm |
| ER 32 tightening torque 180 Nm | | | | | | | | | | | | | | | | | | | | | | | | 375 | | Nm |



Measurement of the specified clamping forces was performed exclusively statically. The actual clamping forces that arise during machining may deviate due to various influences (vibrations, oscillations, machining situation).

Transmittable torques

Permissible transmitted torque (Md) for Hydraulic Chucks

For direct clamping

| | | | | | | | | | | | |
|-------------------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|
| Clamping diameter (d1 h6) | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 25 | 32 | mm |
| Md with shank at minimum size | 20 | 30 | 47 | 80 | 100 | 160 | 200 | 330 | 400 | 650 | Nm |
| Md with shank at maximum size | 30 | 45 | 85 | 140 | 160 | 230 | 270 | 400 | 470 | 730 | Nm |

For clamping with reduction Ø 32 mm

| | | | | | | | | | | |
|-------------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|----|
| Clamping diameter (d1 h6) | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 25 | mm |
| Md with shank at minimum size | 30 | 45 | 60 | 120 | 120 | 180 | 220 | 250 | 330 | Nm |
| Md with shank at maximum size | 45 | 65 | 110 | 170 | 170 | 230 | 300 | 320 | 440 | Nm |

For clamping with reduction Ø 20 mm

| | | | | | | | | | | |
|-------------------------------|----|----|----|----|----|-----|-----|-----|-----|----|
| Clamping diameter (d1 h6) | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | mm |
| Md with shank at minimum size | 6 | 9 | 16 | 30 | 55 | 90 | 120 | 135 | 190 | Nm |
| Md with shank at maximum size | 10 | 12 | 22 | 40 | 75 | 120 | 150 | 170 | 260 | Nm |

For clamping with reduction Ø 12 mm

| | | | | | | |
|-------------------------------|---|---|----|----|----|----|
| Clamping diameter (d1 h6) | 3 | 4 | 5 | 6 | 8 | mm |
| Md with shank at minimum size | 3 | 4 | 7 | 12 | 18 | Nm |
| Md with shank at maximum size | 4 | 8 | 12 | 20 | 26 | Nm |

Minimum shank clamping depths for hydraulic chucks

| | | | | | | | | | | | |
|------------------------|----|----|----|----|----|----|----|----|----|----|----|
| Shank type & size | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 25 | 32 | mm |
| Minimum clamping depth | 27 | 27 | 31 | 36 | 36 | 39 | 39 | 41 | 47 | 51 | mm |

Permissible transmitted torque (Md) for high pressure chuck

Minimum shank clamping depths for high pressure chuck

| | | | | | | |
|------------------------|----|----|----|----|----|----|
| Shank type & size | 16 | 18 | 20 | 25 | 32 | mm |
| Minimum clamping depth | 39 | 39 | 41 | 47 | 51 | mm |

For direct clamping

| | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|----|
| Clamping diameter (d1 h6) | 16 | 18 | 20 | 25 | 32 | mm |
| Md with shank at minimum size | 280 | 360 | 550 | 650 | 800 | Nm |
| Md with shank at maximum size | 380 | 450 | 650 | 750 | 890 | Nm |

Minimum permissible shank torques and clamping depths for shrink fit holders

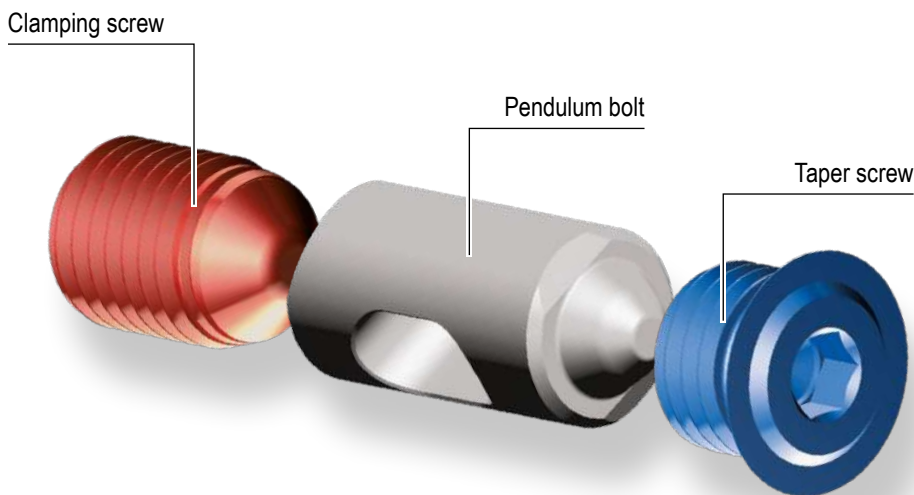
| | | | | | | | | | | | | | | |
|---------------------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|
| Shank type & size | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 25 | 32 | mm |
| Minimum clamping depth | 12 | 16 | 20 | 26 | 26 | 31 | 37 | 37 | 40 | 40 | 42 | 48 | 52 | mm |
| permissible torque moment | 4 | 11 | 17 | 24 | 45 | 82 | 145 | 190 | 200 | 290 | 450 | 530 | 700 | Nm |



Technical information – ABS

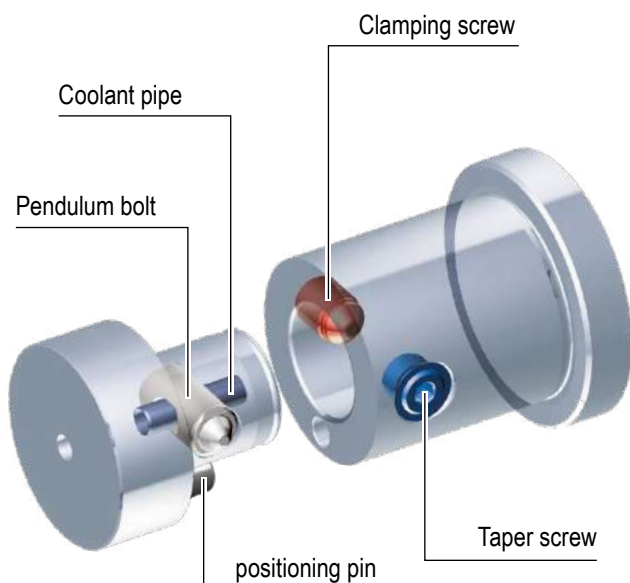
Even better connected

The extension of the proven ABS system complements the existing portfolio and continues to meet the high demands on accuracy. The adapter is an important element in tooling systems between the cutting tool and the machine. It must be able to reliably transmit the cutting forces that are produced. Adaptors also have a considerable impact on the quality of the machining result. They also contribute to the cost-effectiveness of the machining process.



Advantages

- ▲ Improved force transmission
- ▲ Optimum machining result
- ▲ Higher cutting values possible
- ▲ Less noise pollution in production
- ▲ System fully compatible upwards and downwards
- ▲ Suitable for ABS, ABS N and ABS T



| Spare parts ABS | | | | | | | | |
|--------------------|--------------|---------------|----------------|--------------|--------------|-----------------|--------------|--------------|
| | Taper screw | Pendulum bolt | Clamping screw | Range 1 | Coolant pipe | positioning pin | Range 2 | Sealing ring |
| 25 | 84 950 27000 | 84 950 26000 | 84 950 26800 | 84 950 99700 | 84 950 24400 | 84 950 23600 | 84 950 98900 | 84 950 30400 |
| 32 | 84 950 27100 | 84 950 26100 | 62 950 13989 | 84 950 99600 | 84 950 24500 | 84 950 23700 | 84 950 98800 | 84 950 30500 |
| 40 | 84 950 27200 | 84 950 26200 | 84 950 26900 | 84 950 99500 | 84 950 24600 | 84 950 23800 | 84 950 98700 | 84 950 30600 |
| 50 | 84 950 20400 | 84 950 20000 | 84 950 20300 | 84 950 99800 | 84 950 20100 | 84 950 20200 | 84 950 99900 | 84 950 30700 |
| 63 | 84 950 27300 | 84 950 26300 | 84 950 25500 | 84 950 99400 | 84 950 24700 | 84 950 23900 | 84 950 98600 | 84 950 30800 |
| 80 | 84 950 25100 | 84 950 26400 | 84 950 25600 | 84 950 99300 | 84 950 24800 | 84 950 24000 | 84 950 98500 | 84 950 30900 |
| 100 | 84 950 25200 | 84 950 26500 | 84 950 25700 | 84 950 99200 | 84 950 24900 | 84 950 24100 | 84 950 98400 | 84 950 31000 |
| 125 | 84 950 25300 | 84 950 26600 | 84 950 25800 | 84 950 99100 | 84 950 25000 | 84 950 24200 | 84 950 98300 | |
| 160 | 84 950 25400 | 84 950 26700 | 84 950 25900 | | 84 950 23500 | 84 950 24300 | | |

DAH compensation holders

- ▲ Compensation systems for μ -precision run-out
- ▲ Simple correction of run-out and axis errors
- ▲ Optimised for high rpm
- ▲ Designed for internal coolant supply
- ▲ Rotary tools provide long tool life



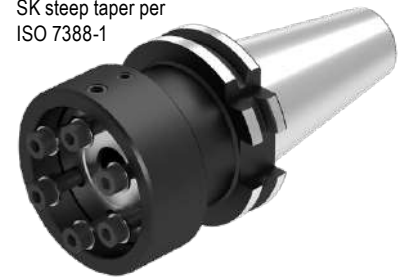
DAH adapter for tools with ABS adapter



With HSK interface ISO 12164



SK steep taper per ISO 7388-1



DAH hydraulic expansion adapter for tools with cylindrical shank



With ABS interface



BT steep taper per ISO 7388-2



DAH 50 HS compensation holder for high-speed machining

- ▲ Tried and tested hydraulic expansion clamping technology
- ▲ Maximum run-out and repeatability precision $< 1 \mu$ ensures consistent cutting action
- ▲ Very simple run-out adjustment
- ▲ Compact design
- ▲ Unbeatable vibration damping, meaning outstanding surface quality
- ▲ Flexible clamping range with reduction sleeves
- ▲ Speeds of up to 25,000 rpm
- ▲ Suitable for minimum quantity lubrication (MMS)



With HSK interface ISO 12164



SK steep taper per ISO 7388-1



BT steep taper per ISO 7388-2



A detailed operating manual is available for download in the online shop next to the product.

