

New products for machining technicians

NEW ABS adapters



Work with flexibility and process-security with the modular ABS coupling system for rotating and stationary tools.

NEW Adapter with ABS connection



The expansion of the tried and tested ABS system complements the existing range and continues to meet the high demands for precision.

NEW ER precision collet chuck – PCC



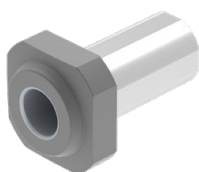
With our new PCC (Precision Collet Chuck), we offer an ER precision collet chuck that is almost equal to our Centro-P in terms of precision and quality. Compatibility with our existing range of collets and use of the same roll key complements the new PCC standard line.

NEW ER precision collet chucks – HDC



- ▲ **Secure** – the form fit using a wedge collet gives an excellent holding torque on the shaft. So the HDC doesn't just offer maximum security against twisting but also 100 % security against micro-creeping and pull-out.
- ▲ **Rigid** – stable outer contour for high stability and vibration dampening
- ▲ **Powerful** – ball-bearing clamping nut for high holding torque protects against twisting of the collet (up to 700 Nm holding torque). Thanks to the ball-bearing nut, smooth clamping is assured, with little effort.
- ▲ **Dampening** – multi-part clamping nut for additional dampening of the system
- ▲ **HDC** = Heavy Duty Chuck, specially designed for heavy duty machining

NEW Hydraulic expansion chucks and hydraulic expansion chucks with Straight shank – VDI



CERATIZIT is extending its portfolio of clamping devices with a hydraulic chuck which brings the benefits of hydro expansion technology to turning/milling centres.

It ensures highly accurate clamping of boring bars with a h7 shank tolerance and a repeatability of 3 µm. Tools are changed in a matter of seconds and this can be performed directly in the machine without auxiliary equipment.



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

9 Turning Tools

10 Multifunctional Tools – EcoCut and FreeTurn

11 Grooving Tools

12 Miniature turning tools

Milling

13 HSS Milling Cutters

14 Solid Carbide milling cutters

15 Milling tools with indexable inserts

Catalogue – Clamping technology

16 Adaptors and Accessories

17 Workpiece clamping

18 Material examples and article no. Index

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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

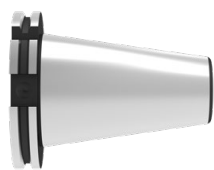


Collet description

- ▲ Type version
- ▲ Radial run-out accuracy

Toolfinder – Machine interface

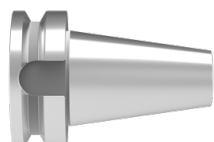
ISO 7388-1 – SK steep taper holders



- ▲ SK 30
- ▲ SK 40
- ▲ SK 50

▶ Toolfinder – Adapters, rotating	4+5
Product programme	12–58

ISO 7388-2 – MAS-BT taper shank

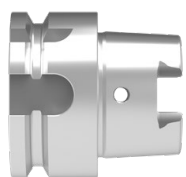


MAS-BT / MAS-BT-FC with face contact

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

▶ Toolfinder – Adapters, rotating	4+5
MAS-BT product range	59–102
MAS-BT-FC product range	103–112

HSK hollow taper adapters with face contact



ISO 12164 – HSK-A / HSK-E

- ▲ HSK-A 32
- ▲ 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	4+5
HSK-A product range	113–158
HSK-E product range	159–163

ISO 12164-3 – HSK-T

- ▲ HSK-T 63
- ▲ HSK-T 100

▶ Toolfinder – Adapters, stationary	6+7
Product programme	199–201

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



PSC, rotating

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

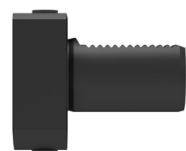
▶ Toolfinder – Adapters, rotating	4+5
Product programme	164–182

PSC, stationary

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

▶ Toolfinder – Adapters, stationary	6+7
Product programme	202–208

ISO 10889 – VDI tool holders with cylindrical shank



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

▶ Toolfinder – Adapters, stationary	8+9
Product programme	209–228
Driven Tools	292+293

Toolfinder – Adapters, 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											
Centro-P											
▲ ER Precision Collet chuck			12-14	59-61	103	113-115	159+160	164			240
▲ OZ precision Collet chuck			15	62		116					
HDC											
▲ ER Precision Collet chuck			16	63	104	117					
High Pressure Milling Chuck											
			17-19	64-65	106	118+119		165			
Hydraulic chuck											
			21	66-69	107	120-122			183		236+237
Heat Shrink Adapter											
			22-27	70-74	105	123+129	161	166+167	184		235
Micro-Precision Collet Chuck											
						142	162				238
High											
Cylindrical shank adapter											
▲ Weldon			28-30	75+76	108	130-134		168	185		239
▲ Whistle Notch			31+32	77+78		135		169	186+187		
Indexable insert drill adapter											
			33	79		136		170			
Collet Chuck											
▲ Precision Collet chuck – PCC			34	80		137					
▲ ER Collet chuck			35	81	109	138-140		171+172	188		241+242
▲ OZ Collet Chuck			36	82							
Short drill chuck											
			37	83		141		173	189	231	231

Main Application
Extended application

Finishing



Roughing - Finishing



Roughing

Toolfinder – Adapters, 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											
High											
Quick change tapping chuck											
▲ With minimum length compensation		38-39		84+85		143+144		174	190		232
▲ with length compensation		40		86		145		175	189	233	233
▲ Without length compensation		40		86		145					
ABS adapters		41+42	43	87-89	90	146+147		176	193-197		
Medium											
Adapter for milling cutters with threaded end		44+45		91		148+149		177		247	243-246
Face mill adapter											
▲ Combination shell mill adapter		46		92		150		178+179	192		
▲ Shell mill adapter		47+48		93+94	110	151+153			191		
▲ Large diameter facemill adapter		49		95							
Drill chuck adapter		50		96						230	
Milling adapter sleeve for MK shanks with thread		51		97							
Taper adapter for Morse taper		52		98		154		180		230	
Adapter											
▲ SK		53				54		55			
▲ MAS-BT		99		99		100		101			
▲ HSK-A						155		156			
▲ PSC		206+207									
Blank		56		102		157		181	198		
Test bar		56		102		158		182			
Accessories											
Pull stud		57+58		111+112							
Coolant pipe/key						163		182			
Main Application				Finishing				Roughing - Finishing		 Roughing	
Extended application											

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

Toolholders for negative turning inserts

	Type	Illustration
	Machining	
	DCLN 95° Internal + External	
	DCMN 95° External	
	DCMN+ DDMN External	

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

	DCMN+ DDMN External	
	DDUN 93° Internal + External	
	DDJN 93° Internal + External	
	DDHN 107,5° Internal + External	
	DDMN 48° External	

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

	DSDN 45° External	
	DVMN 50° External	
	DWLN 95° Internal + External	

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

Toolholders for positive turning inserts

	Type	Illustration
	Machining	
	SCLC 95° Internal + External	
	SCMC 50° External	

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

	SDJC 93° Internal + External	
	SDNC 62,5° Internal + External	
	SDMC 48° External	

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

	PRDC 0° External	
	PRSC Internal + External	

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

	SVUC 93° Internal + External	
	SVJC 93° Internal + External	
	SVHC 107,5° Internal + External	
	SVMC 50° External	

 All tool holders for positive rotary indexable inserts VC..
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**



2,25xD

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

Holders for grooving and threading inserts

Type	Illustration
0°	
90°	

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

Toolholders for threading inserts

Type	Illustration
Internal thread	
External thread	

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

Boring bars for negative inserts

	Type	Illustration
CN..	DCLN 95°	
DN..	DDUN 93°	
WN..	DWLN 95°	

All boring bars for negative indexable inserts can be found in
→ **Section 9, Indexable insert turning tools**

Boring bars for positive inserts

	Type	Illustration
CC..	SCLC 95°	
DC..	SDUC 93°	
VC..	SVUC 93°	
	SVQC 107,5°	

All boring bars for positive indexable inserts can be found in
→ **Section 9, Indexable insert turning tools**

Basic holder

Type	Illustration	HSK-T ISO 12164	PSC ISO 26623
Square shank holder 0°		200	202
Square shank holder 45°		200	203
Square shank holder 90°		201	202
Square shank holder 2 face 0°			203
Square shank holder 3 face 0°		200	203
Boring bar holder		201	204

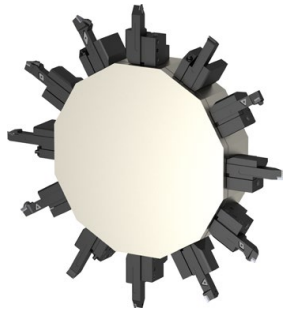
Parting blade holders

Type	Illustration	HSK-T ISO 12164	PSC ISO 26623
Parting Blade Holder GX / LX / FX / SX		199	
Radial Grooving Holders, right / left			202

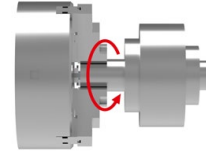
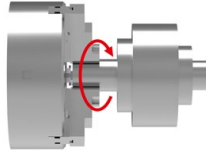
Accessories

Protection plug		208
Hollow nose keys		208

Toolfinder – Stationary adapters – VDI adapters for star turrets



Toolholders above



Upper turret	Spindle rotation clockwise		Spindle rotation counter clockwise	
 Square Shank Adapters	B2/B3/B6/B7/C1/C2/D1/D2	209-212	B2/B3/B6/B7/C3/C4/D1/D2	209-212
 Part Off Holder	double	217+218	double – overhead	217+218
 Adapter VDI to VDI	Left-hand	224	Left-hand	224
 Boring bar holder	Left-hand	223+224	Left-hand	223+224

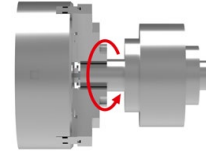
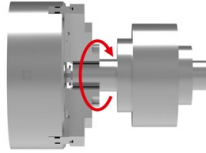
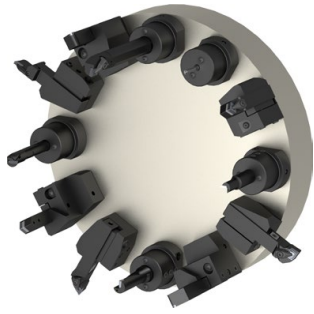
Lower turret	Spindle rotation clockwise		Spindle rotation counter clockwise	
 Square Shank Adapters	B2/B3/B6/B7/C3/C4/D1/D2	209-212	B2/B3/B6/B7/C1/C2/D1/D2	209-212
 Part Off Holder	double – overhead	217+218	double	217+218
 Adapter VDI to VDI	Right-hand	224	Right-hand	224
 Boring bar holder	Right-hand	223+224	Right-hand	223+224

Toolholders below

Upper turret	Spindle rotation clockwise		Spindle rotation counter clockwise	
 Square Shank Adapters	B2/B3/B6/B7/C3/C4/D1/D2	209-212	B2/B3/B6/B7/C1/C2/D1/D2	209-212
 Part Off Holder	double	217+218	double – overhead	217+218
 Adapter VDI to VDI	Right-hand	224	Right-hand	224
 Boring bar holder	Right-hand	223+224	Right-hand	223+224

Lower turret	Spindle rotation clockwise		Spindle rotation counter clockwise	
 Square Shank Adapters	B2/B3/B6/B7/C1/C2/D1/D2	209-212	B2/B3/B6/B7/C3/C4/D1/D2	209-212
 Part Off Holder	double – overhead	217+218	double	217+218
 Adapter VDI to VDI	Left-hand	224	Left-hand	224
 Boring bar holder	Left-hand	223+224	Left-hand	223+224

Toolfinder – Stationary adapters – VDI adapters for disc turrets



Upper turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	Square Shank Adapters	B1/B5/C1/C2/D1	209-212	B3/B7/C3/C4/D2	209-212
	Cylindrical Shank Adapters	E/E1/E2/E3/E4	212-215	E/E1/E2/E3/E4	212-215
	Taper Adapters	F1	216	F1	216
	Part Off Holder	Right-hand	217+218	Overhead right	217+218
	Short drill chuck	NC 2010	219	NC 2010	219
	Tapping Chucks	GSF/GML	220	GSF/GML	220
	Hydraulic chuck		221		221
Lower turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	Square Shank Adapters	B4/B8/C3/C4/D2	209-212	B2/B6/C1/C2/D1	209-212
	Cylindrical Shank Adapters	E/E1/E2/E3/E4	212-215	E/E1/E2/E3/E4	212-215
	Taper Adapters	F1	216	F1	216
	Part Off Holder	Overhead left	217+218	Left-hand	217+218
	Short drill chuck	NC 2010	219	NC 2010	219
	Tapping Chucks	GSF/GML	220	GSF/GML	220
	Hydraulic chuck		221		221

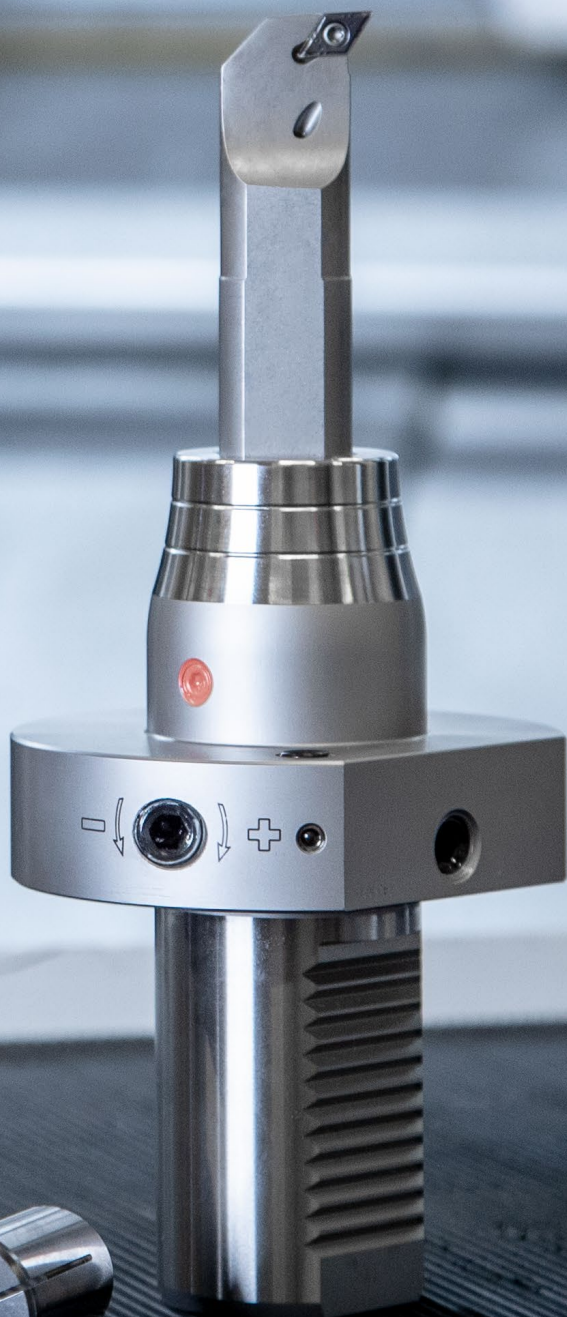
Accessories

	Bar stop	219
	Test arbors	221
	Tool holders	222

	Bar pullers	227
	Gripper accessories	228
	Protection plug	228

Toolfinder – accessories

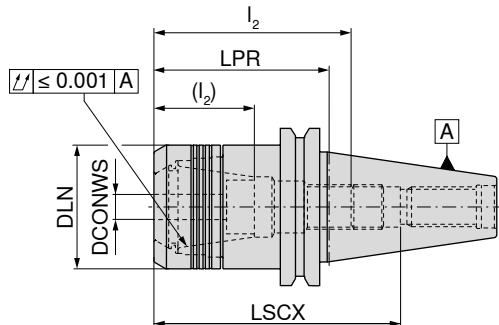
Type		Page No.
Drill chuck with internal taper		229
Tap clamping sleeve for Weldon adapters		234
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Roll key		275
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Reduction sleeve and reducing bushings		271+272
Cleaning propeller		291
TORX® screwdrivers, TORX® interchangeable blades, TORX® bit holders and adapters		283-287
Assembly device for SK, HSK and PSC adapters		273
MultiChange - Holder		249-251
3D tester and zero setting device		288+289
MultiChange key		282
Cool-jet		290
Taper wiper		273



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

84 424 ...

84 414 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	I_2 (I_2) mm	for collet		
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	016	
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	102	
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	103	
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)		510
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)		910
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)		816
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	162	
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	163	
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)		516
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)		916
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	201	
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	202	
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	203	
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)		620
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)		920
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	261 ¹⁾	
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	167	
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)		320
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)		520
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)		52100
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)		720
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)		26600
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)		26700
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)		26800
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)		26900

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

→ Transmittable torque moments, Page 300



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 3 mm longer

Spare parts

ER precision collet chuck – Centro-P

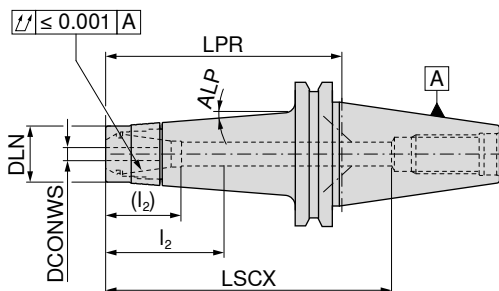
				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet				
426E (ER16)	011	001	M11x1 - SW6	337
430E (ER25)	013	003	M18x1,5 - SW6	431
470E (ER32)	015	005	M22x1,5 - SW6	401
472E (ER40)	017	007	M28x1,5 - SW6	400

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	
SK 40	1 - 10	100	24	140	28 - 48 (20 - 35)	426E (ER16)	4,5°	410
SK 40	1 - 10	130	24	105	28 - 48 (20 - 35)	426E (ER16)		61000
SK 40	1 - 10	160	24	200	28 - 48 (20 - 35)	426E (ER16)	2,5°	910

→ Transmittable torque moments, Page 300



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				
426E (ER16)	033	031	M11x1 - SW6	337

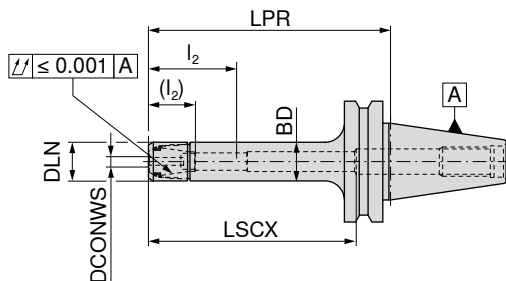
Accessories

					
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256–263, 266	→ 269	→ 275	→ 275	→ 57–58	→ 273

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** backstopAD/B
G 2,5 $n_{\max}$ 25000

84 412 ...

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	L_2 (L_2) mm	for collet	
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	207
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	407
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)	607
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	907
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)	210
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)	310
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)	410
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)	510

→ Transmittable torque moments, Page 300



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)								
426E (ER16)								



Mini lock nut IK

84 950 ...



Mini lock nut

84 950 ...



Stop screw 2

83 950 ...



Stop screw 1

83 950 ...

Accessories

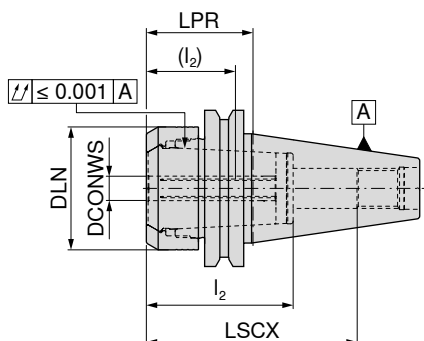
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 256-263, 266	→ 269	→ 274	→ 275	→ 275	→ 57-58	→ 273

OZ Precision Collet Chuck – Centro-P

- ▲ 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

84 406 ...

025

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet
SK 40	2 - 25	43	50	80	53 - 65 (37 - 48)	462E

→ Transmittable torque moments, Page 300



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

462E

84 950 ...	84 950 ...	83 950 ...	83 950 ...
020	009	402	401

M22x1,5 - SW6

M22x1,5 - SW6

Accessories

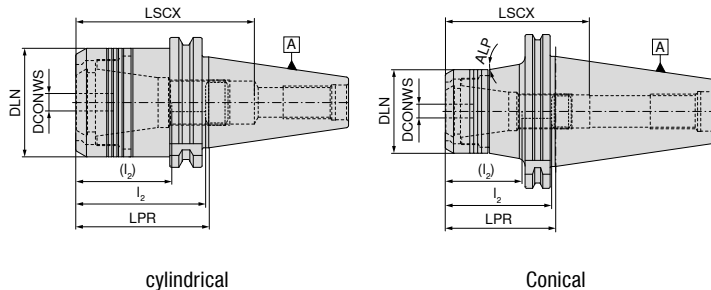
OZ Collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 267	→ 267	→ 275	→ 275	→ 57-58	→ 273

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



NEW



AD
G 6,3 $n_{\max}$ 18000
cylindrical

84 400 ...

NEW



AD
G 6,3 $n_{\max}$ 18000
conical

84 400 ...

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



LSCX = Clamping depth without backstop screw

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

		
Lock nut	Stop screw 2	Stop screw 1
84 950 ...	83 950 ...	83 950 ...
30100	402	401
M22x1,5 - SW6	M22x1,5 - SW6	

Spare parts

DCONWS

2 - 20

Accessories

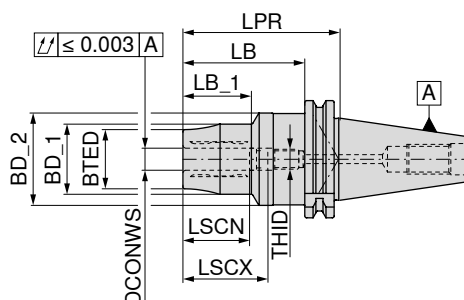
				
ER collet	Roll key	Roll key device	Pull studs	Others
→ 256-266	→ 275	→ 275	→ 57-58	→ 273

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

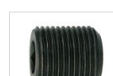
83 422 ...

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

→ Min. clamping depth, Page 300



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS						
16	SW5	050	TR10x1,5x14	430	M12x1x18	446
20	SW5	050	TR10x1,5x14	430	M16x1x18,5	448
25	SW5	050	TR10x1,5x14	430	M16x1x22	449
32	SW5	050	TR10x1,5x14	430	M16x1x25	450

Accessories



Reduction sleeve



Pull studs



Others

→ 271

→ 57–58

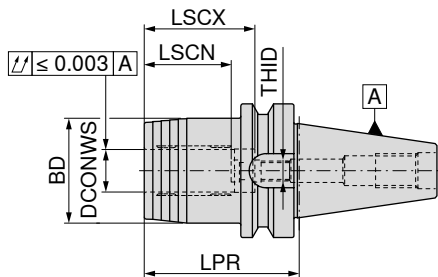
→ 273

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



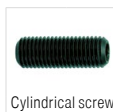
AD/B
G 2,5 n_{max} 25000

83 427 ...

120

→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	64,5	49	51	40	M16x1x13,5



Cylindrical screw

83 950 ...



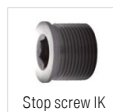
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts
for Article no.
83 427 120

M5x5 - SW2,5

157

SW5

050

M10x1x14

429

M16x1x13,5 - SW8

424

Accessories



Reduction sleeve

→ 271



Pull studs

→ 57–58



Others

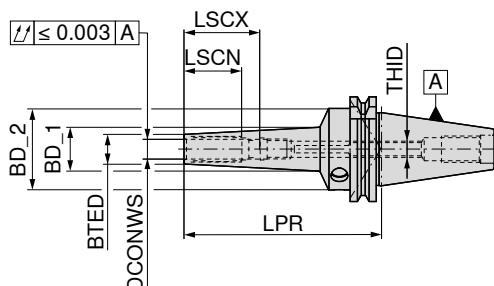
→ 273

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

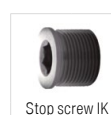
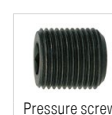
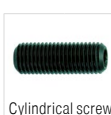


AD/B
G 2,5 n_{max} 25000

83 421 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	
long	SK 40	3	120	9	17,40	49,5	28	12	M3	103
	SK 40	4	120	10	18,40	49,5	28	16	M3	104
	SK 40	5	120	11	19,40	49,5	28	20	M3	105
	SK 40	6	120	12	20,40	49,5	37	27	M5	106
	SK 40	8	120	14	22,40	49,5	37	27	M6	108
	SK 40	10	120	16	24,50	49,5	41	31	M8x1	110
	SK 40	12	120	18	26,60	49,5	46	36	M10x1	112
	SK 40	16	120	24	32,30	49,5	49	39	M12x1	116
	SK 40	20	120	28	36,40	49,5	51	41	M16x1	120
	SK 40	6	160	16	34,37	49,5	37	27	M5	206
	SK 40	8	160	18	35,45	49,5	37	27	M6	208
	SK 40	10	160	20	37,10	49,5	41	31	M8x1	210
	SK 40	12	160	22	38,72	49,5	46	36	M10x1	212
	SK 40	6	200	16	38,72	49,5	37	27	M5	306
	SK 40	8	200	18	39,74	49,5	37	27	M6	308
	SK 40	10	200	20	41,40	49,5	41	31	M8x1	310
	SK 40	12	200	22	43,02	49,5	46	36	M10x1	312

→ Min. clamping depth, Page 300



83 950 ...

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

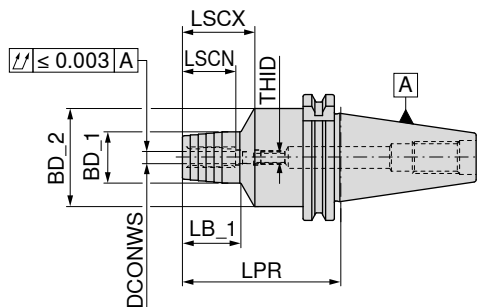
83 421 103	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 421 104	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 421 105	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 421 106	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
83 421 108	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
83 421 110	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420
83 421 112	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M10x1x13,5 - SW5	421
83 421 116	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M12x1x13,5 - SW5	422
83 421 120	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M16x1x13,5 - SW8	424
83 421 206	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
83 421 208	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
83 421 210	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420
83 421 212	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420
83 421 306	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
83 421 308	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
83 421 310	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420
83 421 312	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	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

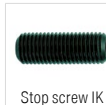
83 402 ...

	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	106
	SK 40	8	80,5	28	49,5	37	27	30,0	M6	108
	SK 40	10	80,5	30	49,5	41	31	35,0	M8x1	110
	SK 40	12	80,5	32	49,5	46	36	40,0	M10x1	112
	SK 40	16	80,5	38	49,5	49	39	45,0	M12x1	116
	SK 40	20	80,5	42	49,5	51	41	47,0	M16x1	120
	SK 40	25	80,5	55	63,0	57	47	28,0	M16x1	125
	SK 40	32	80,5	63	70,0	61	51	25,5	M16x1	132
	SK 50	6	80,5	26	49,5	37	27	29,5	M5	306
	SK 50	8	80,5	28	49,5	37	27	30,0	M6	308
	SK 50	10	80,5	30	49,5	41	31	35,0	M8x1	310
	SK 50	12	80,5	32	49,5	46	36	40,0	M10x1	312
	SK 50	16	80,5	38	49,5	49	39	45,0	M12x1	316
	SK 50	20	80,5	42	49,5	51	41	42,0	M16x1	320
	SK 50	25	100,0	55	63,0	57	47	48,0	M16x1	325
	SK 50	32	100,0	63	70,0	61	51	51,0	M16x1	332

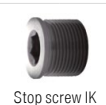
→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK



Stop screw IK

83 950 ...

83 950 ...

83 950 ...

Spare parts DCONWS

6	M8x1x10	439	M6x14 - SW2	417	M5x12,5 - SW2,5	418
8	M8x1x10	439			M6x12,5 - SW3	419
10	M10x1x12	440			M8x1x13,5 - SW3	420
12	M10x1x12	440			M10x1x13,5 - SW5	421
16	M10x1x12	440			M12x1x13,5 - SW5	422
20 - 32	M10x1x12	440			M16x1x13,5 - SW8	424

Accessories



Reduction sleeve



Pull studs



Others

→ 271

→ 57-58

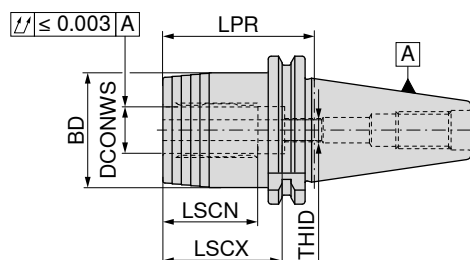
→ 273

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/B
G 2,5 n_{max} 25000

83 425 ...

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	64,5	49,5	51	41	M16x1
SK 50	32	81,0	72,0	61	51	M16x1

120

332

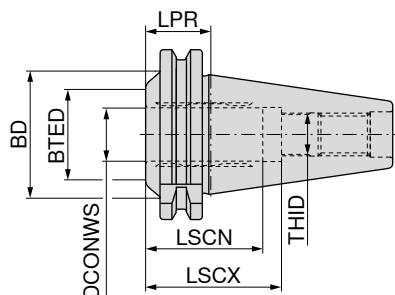
→ Min. clamping depth, Page 300

Hydraulic chuck, extra short

- ▲ 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



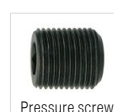
AD
G 2,5 n_{max} 25000

83 403 ...

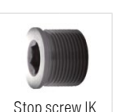
Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	24,5	34	48	51	41	M16x1

120

→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK

83 950 ...

83 950 ...

Spare parts

DCONWS

20 - 32

M10x1x12

440

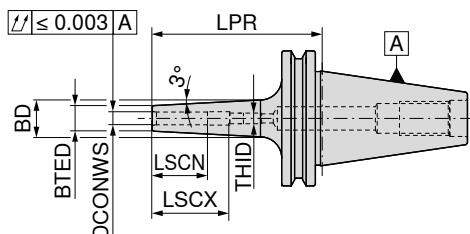
M16x1x13,5 - SW8

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

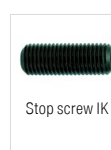
84 320 ...

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

→ Min. clamping depth, Page 300

Spare parts
DCONWS

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



Stop screw IK

83 950 ...



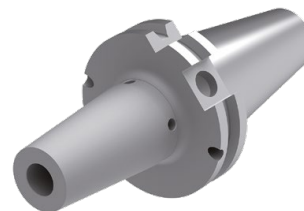
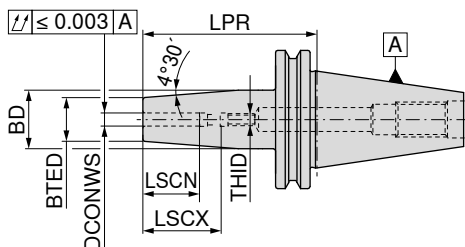
Stop screw IK

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**

TG



AD

G 2,5 n_{max} 25000

AD/B

G 2,5 n_{max} 25000

84 300 ...

84 300 ...

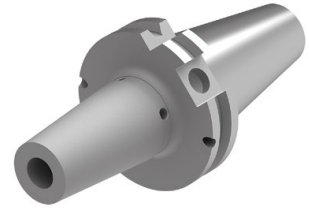
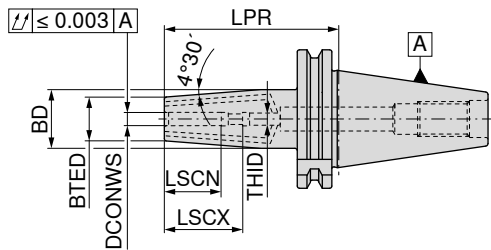
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
short	SK 30	3	80	10	17	22	12	M6		003
	SK 30	4	80	15	22	26	16	M6		004
	SK 30	5	80	15	22	30	20	M6		005
	SK 30	6	80	21	27	36	26	M5		006
	SK 30	8	80	21	27	36	26	M6		008
	SK 30	10	80	24	32	41	31	M8x1		010
	SK 30	12	80	24	32	47	37	M10x1		012
	SK 30	14	80	27	34	47	37	M10x1		014
	SK 30	16	80	27	34	50	40	M12x1		016
	SK 30	18	80	33	42	50	40	M12x1		018
	SK 30	20	80	33	42	52	42	M16x1		020
	SK 40	3	80	10	17	22	12	M6		103
	SK 40	4	80	15	22	26	16	M6		104
	SK 40	5	80	15	22	30	20	M6		105
	SK 40	6	80	21	27	36	26	M5		106
	SK 40	8	80	21	27	36	26	M6		108
	SK 40	10	80	24	32	41	31	M8x1		110
	SK 40	12	80	24	32	47	37	M10x1		112
	SK 40	14	80	27	34	47	37	M10x1		114
	SK 40	16	80	27	34	50	40	M12x1		116
	SK 40	18	80	33	42	50	40	M12x1		118
long	SK 40	20	80	33	42	52	42	M16x1		120
	SK 40	25	100	44	53	58	48	M16x1		125
	SK 40	3	120	10	20	12	12			203
	SK 40	4	120	15	22	16	16			204
	SK 40	5	120	15	22	20	20			205
	SK 40	6	120	21	27	36	26	M5		206
	SK 40	8	120	21	27	36	26	M6		208
	SK 40	10	120	24	32	41	31	M8x1		210
	SK 40	12	120	24	32	47	37	M10x1		212
	SK 40	14	120	27	34	47	37	M10x1		214
extra-long	SK 40	16	120	27	34	50	40	M12x1		216
	SK 40	18	120	33	42	50	40	M12x1		218
	SK 40	20	120	33	42	52	42	M16x1		220
	SK 40	25	120	44	53	58	48	M16x1		225
	SK 40	3	160	10	20	12	12			303
	SK 40	4	160	15	22	16	16			304
	SK 40	5	160	15	22	20	20			305
	SK 40	6	160	21	27	36	26	M5		306
	SK 40	8	160	21	27	36	26	M6		308
	SK 40	10	160	24	32	41	31	M8x1		310
	SK 40	12	160	24	32	47	37	M10x1		312
	SK 40	14	160	27	34	47	37	M10x1		314
	SK 40	16	160	27	34	50	40	M12x1		316
	SK 40	18	160	33	42	50	40	M12x1		318
	SK 40	20	160	33	42	52	42	M16x1		320
	SK 40	25	160	44	53	58	48	M16x1		325

→ Min. clamping depth, Page 300

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

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK



Sealing screw

83 950 ...

83 950 ...

83 950 ...

Spare parts
DCONWS

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

Accessories



Shrink fit extension



Pull studs



Others

→ 235

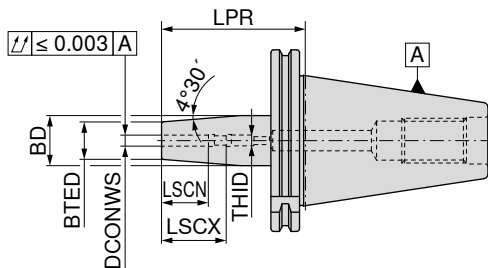
→ 57-58

→ 273

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

→ Min. clamping depth, Page 300



Stop screw IK

83 950 ...

Spare parts

DCONWS

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

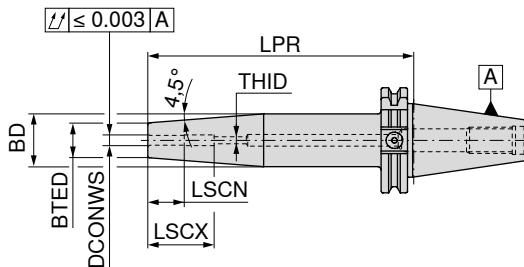
Shrink fit adapters 4.5°

- ▲ 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} 18000

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	SK 40	3	70	12	17,0				10379
	SK 40	4	70	12	17,0				10479
	SK 40	5	70	12	17,0				10579
	SK 40	6	80	21	30,5	36	26	M5	10679
	SK 40	8	80	21	30,5	36	26	M6	10879
	SK 40	10	80	24	33,5	41	31	M8x1	11079
	SK 40	12	80	24	33,5	47	37	M10x1	11279
	SK 40	14	80	27	36,5	47	37	M10x1	11479
	SK 40	16	80	27	36,5	50	40	M12x1	11679
	SK 40	18	80	33	42,5	50	40	M12x1	11879
	SK 40	20	80	33	42,5	52	42	M16x1	12079
	SK 40	25	100	44	50,0	58	48	M16x1	12579
	SK 50	6	80	21	27,0	36	26	M5	10678
	SK 50	8	80	21	27,0	36	26	M6	10878
	SK 50	10	80	24	32,0	41	31	M8x1	11078
	SK 50	12	80	24	32,0	47	37	M10x1	11278
	SK 50	14	80	27	34,0	47	37	M10x1	11478
	SK 50	16	80	27	34,0	50	40	M12x1	11678
	SK 50	18	80	33	42,0	50	40	M12x1	11878
	SK 50	20	80	33	42,0	52	42	M12x1	12078
	SK 50	25	100	44	53,0	58	48	M16x1	12578
	SK 50	32	100	44	53,0	62	52	M16x1	13278
long	SK 40	3	120	12	17,0				20379
	SK 40	4	120	12	17,0				20479
	SK 40	5	120	12	17,0				20579
	SK 40	6	120	21	31,0	36	26	M5	20679
	SK 40	8	120	21	32,0	36	26	M6	20879
	SK 40	10	120	24	34,0	41	31	M8x1	21079
	SK 40	12	120	24	34,0	47	37	M10x1	21279
	SK 40	16	120	27	36,0	50	40	M12x1	21679
	SK 40	20	120	33	44,0	52	42	M16x1	22079
	SK 50	6	120	21	27,0	36	26	M5	20678
	SK 50	8	120	21	27,0	36	26	M6	20878
	SK 50	10	120	24	32,0	41	31	M8x1	21078
	SK 50	12	120	24	32,0	47	37	M10x1	21278
	SK 50	14	120	27	34,0	47	37	M10x1	21478
	SK 50	16	120	27	34,0	50	40	M12x1	21678
	SK 50	18	120	33	42,0	50	40	M12x1	21878
	SK 50	20	120	33	42,0	52	42	M16x1	22078
	SK 50	25	120	44	53,0	58	48	M16x1	22578
	SK 50	32	120	44	53,0	62	52	M16x1	23278

→ Min. clamping depth, Page 300

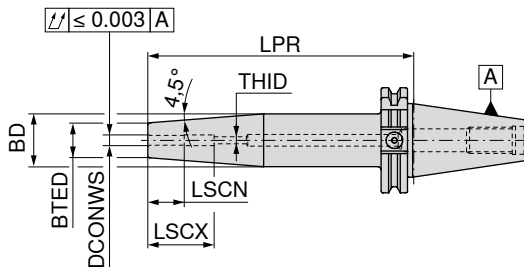
Shrink fit adapters 4.5°

- ▲ 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} 18000

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
extra-long	SK 40	6	160	21	31,0	36	26	M5	30679
	SK 40	8	160	21	32,0	36	26	M6	30879
	SK 40	10	160	24	34,0	41	31	M8x1	31079
	SK 40	12	160	24	34,0	47	37	M10x1	31279
	SK 40	14	160	27	36,0	47	37	M10x1	31479
	SK 40	16	160	27	36,0	50	40	M12x1	31679
	SK 40	18	160	33	44,0	50	40	M12x1	31879
	SK 40	20	160	33	44,0	52	42	M16x1	32079
	SK 40	25	160	44	50,0	58	48	M16x1	32579
	SK 50	6	160	21	27,0	36	26	M5	30678
	SK 50	8	160	21	27,0	36	26	M6	30878
	SK 50	10	160	24	32,0	41	31	M8x1	31078
	SK 50	12	160	24	32,0	47	37	M10x1	31278
	SK 50	14	160	27	34,0	47	37	M10x1	31478
	SK 50	16	160	27	34,0	50	40	M12x1	31678
	SK 50	18	160	33	42,0	50	40	M12x1	31878
	SK 50	20	160	33	42,0	52	42	M16x1	32078
	SK 50	25	160	44	53,0	58	48	M16x1	32578
	SK 50	32	160	44	53,0	62	52	M16x1	33278

→ Min. clamping depth, Page 300



Stop screw IK

82 950 ...

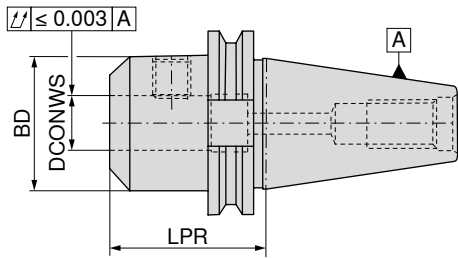
Spare parts

DCONWS

6	M5x16 - SW2,5	30000
8	M6x16 - SW3	30100
10	M8x16 - SW4	30200
12	M10x16 - SW5	30300
14	M10x16 - SW5	30300
16	M12x16 - SW6	30400
18	M12x16 - SW6	30400
20	M16x16 - SW8	30500
25	M16x16 - SW8	30500
32	M16x16 - SW8	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} 18000

82 401 ...

ADe
G 2,5 n_{max} 18000

82 403 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
short	SK 30	6	50	25	00600	
	SK 30	8	50	28	00800	
	SK 30	10	50	35	01000	
	SK 30	12	50	42	01200	
	SK 30	14	63	44	01400	
	SK 30	16	63	48	01600	
	SK 30	18	63	50	01800	
	SK 30	20	70	52	02000	
extra short	SK 40	16	35	48	416	416
	SK 40	20	35	50	420	420
	SK 40	25	40	50	425	425
	SK 40	32	75	72	43200	432

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



Grubscrew

83 950 ...

Spare parts for Article no.

82 403 425 / 82 401 425	M16x10	275
82 403 432	M14x10	259

Accessories



Pull studs

→ 57–58

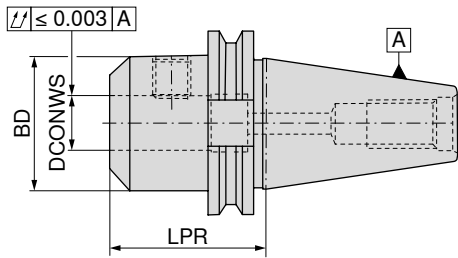


Others

→ 273

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} 18000

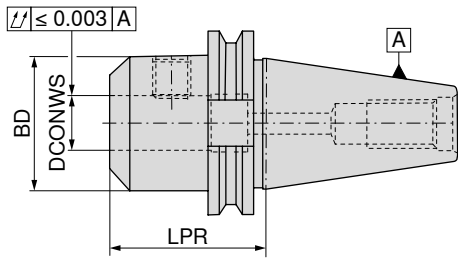


AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
short	SK 40	6	50	25	106	106
	SK 40	8	50	28	108	108
	SK 40	10	50	35	110	110
	SK 40	12	50	42	112	112
	SK 40	14	50	44	114	114
	SK 40	16	63	48	116	116
	SK 40	18	63	50	118	118
	SK 40	20	63	52	120	120
	SK 40	25	100	65	125	125
	SK 40	32	100	72	132	13200
	SK 40	40	120	90	14000	
	SK 50	6	63	25	306	30600
	SK 50	8	63	28	308	30800
	SK 50	10	63	35	310	31000
	SK 50	12	63	42	312	31200
	SK 50	14	63	44	314	31400
	SK 50	16	63	48	316	31600
	SK 50	18	63	50	318	31800
	SK 50	20	63	52	320	32000
long	SK 40	6	100	25	506	50600
	SK 40	8	100	28	508	50800
	SK 40	10	100	35	510	51000
	SK 40	12	100	42	512	51200
	SK 40	14	100	44	514	51400
	SK 40	16	100	48	516	51600
	SK 40	18	100	50	518	51800
	SK 40	20	100	52	520	52000
	SK 40	40	120	80		54000
	SK 50	6	100	25	70600	
	SK 50	8	100	28	70800	
	SK 50	10	100	35	71000	
	SK 50	12	100	42	71200	
	SK 50	14	100	44	71400	
	SK 50	16	100	48	71600	
	SK 50	18	100	50	71800	
	SK 50	20	100	52	72000	
	SK 50	25	100	65	72500	

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} 18000



AD/Be
G 2,5 n_{max} 18000

82 401 ...

82 404 ...

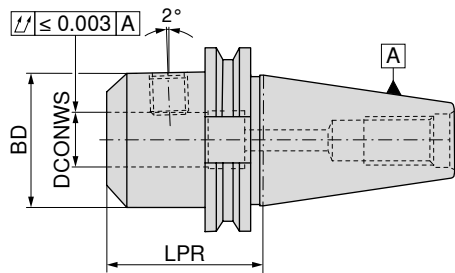
	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
medium length	SK 40	6	130	25	206	206
	SK 40	8	130	28	208	208
	SK 40	10	130	35	210	210
	SK 40	12	130	42	212	212
	SK 40	14	130	44	214	214
	SK 40	16	130	48	216	216
	SK 40	18	130	50	218	218
	SK 40	20	130	52	220	220
	SK 50	6	130	25	90600	90600
	SK 50	8	130	28	90800	90800
	SK 50	10	130	35	91000	91000
	SK 50	12	130	42	91200	91200
	SK 50	14	130	44	91400	91400
	SK 50	16	130	48	91600	91600
	SK 50	18	130	50	91800	91800
	SK 50	20	130	52	92000	92000
extra-long	SK 40	6	160	25	606	
	SK 40	8	160	28	608	
	SK 40	10	160	35	610	
	SK 40	12	160	42	612	
	SK 40	14	160	44	614	
	SK 40	16	160	48	616	
	SK 40	18	160	50	618	
	SK 40	20	160	52	620	
	SK 40	25	160	65	625	
	SK 50	6	160	25	80600	
	SK 50	8	160	28	80800	
	SK 50	10	160	35	81000	
	SK 50	12	160	42	81200	
	SK 50	14	160	44	81400	
	SK 50	16	160	48	81600	
	SK 50	18	160	50	81800	
	SK 50	20	160	52	82000	
	SK 50	25	160	65	82500	
	SK 50	32	160	72	83200	



Spare parts and accessories on → **Page 32**

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**

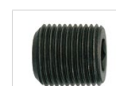


AD/B
G 2,5 n_{max} 18000

82 407 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	
short	SK 40	6	50	25	106
	SK 40	8	50	28	108
	SK 40	10	50	35	110
	SK 40	12	50	42	112
	SK 40	14	50	44	114
	SK 40	16	63	48	116
	SK 40	18	63	50	118
	SK 40	20	63	52	120
	SK 40	25	100	65	12500
	SK 40	32	100	72	13200
	SK 50	8	63	28	30800
	SK 50	10	63	35	31000
	SK 50	12	63	42	31200
	SK 50	14	63	44	31400
	SK 50	16	63	48	31600
	SK 50	18	63	50	31800
	SK 50	20	63	52	32000
	SK 50	25	80	65	32500
	SK 50	32	100	72	33200
medium length	SK 40	6	63	25	30600
	SK 40	6	130	25	206
	SK 40	8	130	28	208
	SK 40	10	130	35	210
	SK 40	12	130	42	212
	SK 40	16	130	48	216
	SK 40	20	130	52	220
	SK 40	25	130	65	225
	SK 50	6	130	25	90600
	SK 50	8	130	28	90800
	SK 50	10	130	35	91000
	SK 50	12	130	42	91200
	SK 50	16	130	48	91600
	SK 50	20	130	52	92000
	SK 50	25	130	65	92500
	SK 50	32	130	72	93200

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



Grubscrew



Stop screw IK

62 950 ...

83 950 ...

Spare parts DCONWS

6	M6x10	006	M5x35	033
8	M8x10	008	M6x35	034
10	M10x12	010	M8x35	035
12 - 14	M12x16	012	M10x35	036
16 - 18	M14x16	016	M12x40	037
20	M16x16	020	M16x45	272
25	M18x20	025	M20x35	290

Accessories



Pull studs

→ 57-58

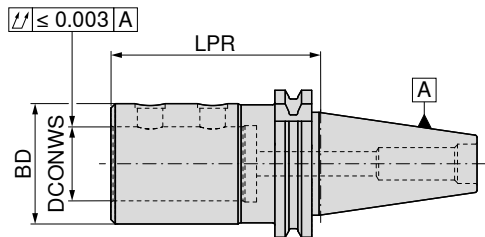


Others

→ 273

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	120
SK 40	25	85	45	125
SK 40	32	90	52	132
SK 50	20	80	40	220
SK 50	25	85	45	225
SK 50	32	90	52	232
SK 50	40	90	65	240
SK 50	50	100	75	250

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



Grubscrew

10 950 ...

Spare parts

DCONWS		
20	M10x1x10	001
25 - 32	M12x1x10	002
40 - 50	M16x1x12	003

Accessories



Pull studs
→ 57–58



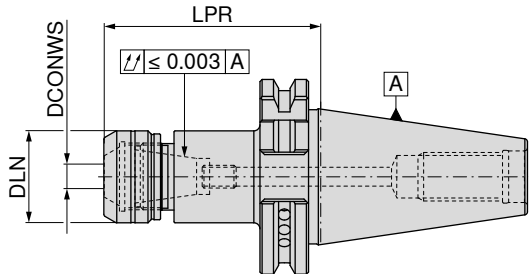
Others
→ 273

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



NEW



AD/B

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

82 700 ...

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	
SK 40	1 - 10	70	30	426E (ER16)	40 / 2-70	11079
SK 40	1 - 10	100	30	426E (ER16)	40 / 2-70	21079
SK 40	2 - 16	70	40	430E (ER25)	80 / 10-160	11679
SK 40	2 - 16	100	40	430E (ER25)	80 / 10-160	21679
SK 40	2 - 20	70	50	470E (ER32)	125 / 15-250	12079
SK 40	2 - 20	100	50	470E (ER32)	125 / 15-250	22079
SK 50	2 - 16	70	40	430E (ER25)	80 / 10-160	11678
SK 50	2 - 16	100	40	430E (ER25)	80 / 10-160	21678
SK 50	2 - 20	70	50	470E (ER32)	125 / 15-250	12078
SK 50	2 - 20	100	50	470E (ER32)	125 / 15-250	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

426E (ER16)	11000	01000		00100
430E (ER25)	11600	01600	00200	00300
470E (ER32)	12000	02000	00200	00300

Accessories

ER collet	Sealing ring	Roll key
→ 256–266	→ 270	→ 275

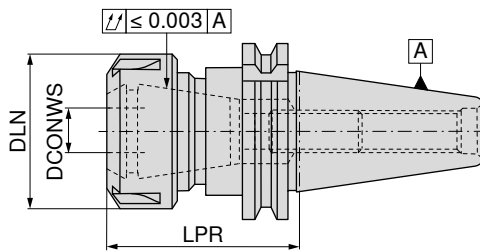
Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
82 950 ...	82 950 ...	82 950 ...	82 950 ...

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} 18000



AD/B
G 2,5 n_{max} 18000

82 415 ...

82 415 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	SK 30	1 - 10	70	32	8 - 56	426E (ER16)	01000	
	SK 30	1 - 16	70	42	24 - 104	430E (ER25)	01600	
	SK 30	2 - 20	70	50	24 - 136	470E (ER32)	02000	
	SK 40	1 - 10	60	32	8 - 56	426E (ER16)		110
	SK 40	1 - 16	70	42	24 - 104	430E (ER25)		116
	SK 40	2 - 20	70	50	24 - 136	470E (ER32)		120
	SK 40	3 - 26	70	63	176	472E (ER40)		126
	SK 50	1 - 10	60	32	8 - 56	426E (ER16)		31000
	SK 50	1 - 16	70	42	24 - 104	430E (ER25)		31600
	SK 50	2 - 20	70	50	24 - 136	470E (ER32)		32000
	SK 50	3 - 26	70	63	176	472E (ER40)		32600
long	SK 30	1 - 10	100	32	8 - 56	426E (ER16)	21000	
	SK 30	1 - 16	100	42	24 - 104	430E (ER25)	21600	
	SK 30	2 - 20	100	50	24 - 136	470E (ER32)	22000	
	SK 40	1 - 10	120	32	8 - 56	426E (ER16)		410
	SK 40	1 - 16	120	42	24 - 104	430E (ER25)		416
	SK 40	2 - 20	120	50	24 - 136	470E (ER32)		420
	SK 40	3 - 26	100	63	176	472E (ER40)		42600
	SK 50	1 - 10	100	32	8 - 56	426E (ER16)		71000
	SK 50	1 - 16	100	42	24 - 104	430E (ER25)		71600
	SK 50	2 - 20	100	50	24 - 136	470E (ER32)		72000
	SK 50	3 - 26	100	63	176	472E (ER40)		72600
extra-long	SK 40	1 - 10	160	32	8 - 56	426E (ER16)		61000
	SK 40	2 - 16	160	42	24 - 104	430E (ER25)		61600
	SK 40	2 - 20	160	50	24 - 136	470E (ER32)		62000
	SK 40	3 - 26	160	63	176	472E (ER40)		62600
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)		81600
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)		82000

Spare parts for collet

426E (ER16) / SK30-SK50
430E (ER25) / SK30
430E (ER25) / SK40, SK50
470E (ER32) / SK30
470E (ER32) / SK40, SK50
472E (ER40) / SK40, SK50

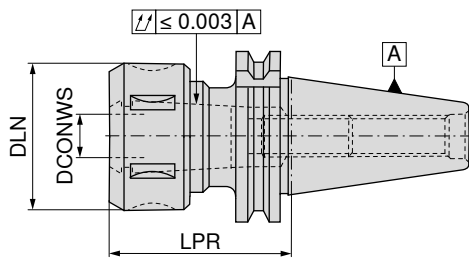
Lock nut IK	Lock nut	Y clamping key	Stop screw IK
83 950 ...	62 950 ...	83 357 ...	83 950 ...
054	054	116	
055	055	125	010
055	055	125	010
056	056	132	010
056	056	132	010
057	057	140	011

OZ Collet Chuck

- ▲ Clamping nut with ball bearings
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with lock nut and adjustable back stop



AD
G 2,5 n_{max} 18000



AD/B
G 2,5 n_{max} 18000

82 411 ...

82 411 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	SK 30	2 - 16	60	43	24 - 104	415E / 421E		01600
	SK 30	2 - 25	80	60	24 - 176	459E / 462E		02500
	SK 40	2 - 16	70	43	80 - 90	415E / 421E		116
	SK 40	2 - 25	70	60	90 - 100	459E / 462E		125
	SK 50	2 - 16	70	43	80 - 90	415E / 421E		32500
	SK 50	2 - 25	70	60	90 - 100	459E / 462E		33200
long	SK 50	4 - 32	70	72	110 - 120	460E / 467E		34000
	SK 40	2 - 16	120	43	80 - 90	415E / 421E		416
	SK 40	2 - 25	120	60	90 - 100	459E / 462E		425
	SK 40	4 - 32	100	72	227	460E / 467E		43200
	SK 50	2 - 16	100	43	80 - 90	415E / 421E		72500
	SK 50	2 - 25	100	60	90 - 100	459E / 462E		73200



Lock nut



Hook clamping
key



Stop screw IK

62 950 ...

83 354 ...

83 950 ...

Spare parts for collet

415E / 421E	M33x1,5	050	116	M10x50	010
459E / 462E	M48x2	051	125	M10x50	010
460E / 467E	M60x2,5	052	132	M12x50	011

Accessories



OZ Collet

→ 268



Pull studs

→ 57-58



Others

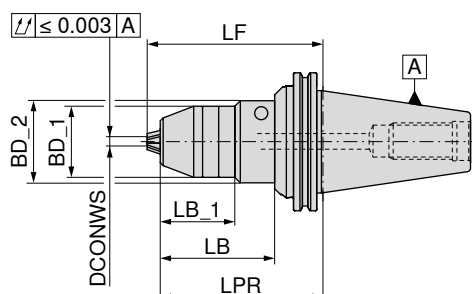
→ 273

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

84 418 ...



AD
G 6,3 n_{max} 10000

84 419 ...



AD/B
G 6,3 n_{max} 10000

84 420 ...

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LF mm			
SK 30	0,5 - 10	80	43,0			59,9	89,0		313	
SK 40	0,5 - 13	80	48,5			60,8	89,0		413	
SK 40	0,5 - 13	80	48,5		50,9		89,0			413
SK 40	2,5 - 16	80	51,0			60,0	90,5			
SK 40	2,5 - 16	80	51,0			60,8	90,5		416	
SK 40	2,5 - 16	80	51,0		50,9		90,5			416
SK 50	0,5 - 13	110	48,5	56	50,9	78,0	119,0			
SK 50	0,5 - 13	110	48,5	56	50,9	78,1	119,0		513	
SK 50	2,5 - 16	110	51,0	56	50,9	78,0	120,5			516
SK 50	2,5 - 16	110	56,0		50,9	78,0	120,5		516	



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

Accessories



Pull studs

→ 57-58



Others

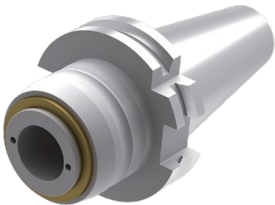
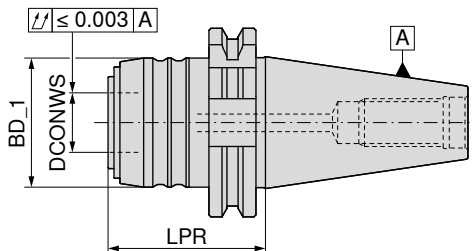
→ 273

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	012
SK 40	M6 - M20	2	90	60	32	1,0 / 0,2	020
SK 50	M3 - M12	1	53	43	20	1,0 / 0,2	112
SK 50	M6 - M20	2	74	60	32	1,0 / 0,2	120

Accessories



Pull studs

→ 57–58



Others

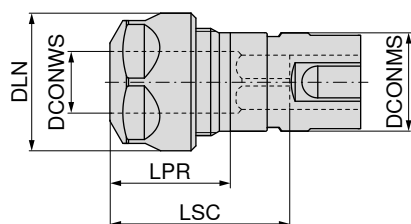
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

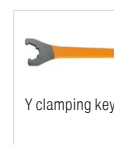
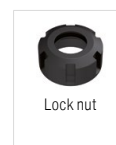
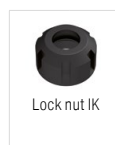
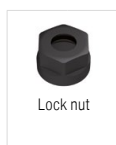
Includes lock nut



83 608 ...

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

Spare parts for synchronous tapping chucks



62 950 ...

83 950 ...

62 950 ...

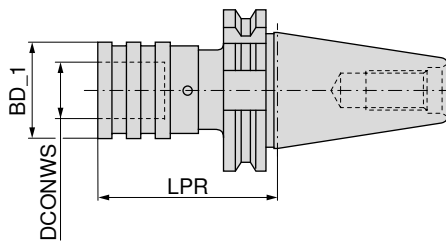
83 357 ...

Spare parts for Article no.

83 608 012	M22x1,5 - SW25	044	M22x1,5	054			116
83 608 020			M32x1,5	055	M32x1,5	055	125

Quick change tap chuck with length compensation

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



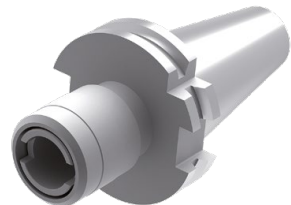
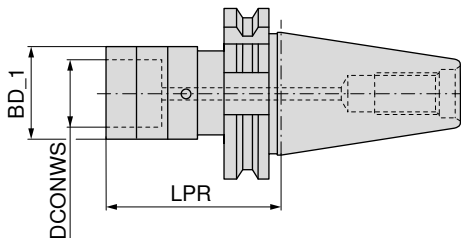
A

83 428 ...

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

Quick change tap chuck without length compensation

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



AD

83 423 ...

Adapter	SZID	LPR mm	BD_1 mm	DCONWS mm	
SK 30	02	80	50	31	320
SK 30	01	59	33	19	312
SK 40	02	86	50	31	420
SK 40	01	59	33	19	412
SK 50	01	75	33	19	512
SK 50	02	98	50	31	520

Accessories

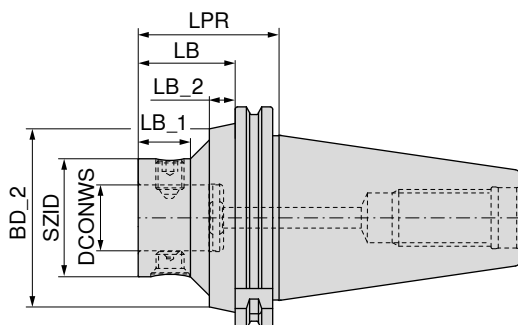
		
Collet	Pull studs	Others
→ 277-281	→ 57-58	→ 273

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



NEW



AD

G 6,3 n_{max} 8000

84 211 ...

NEW



AD/B

G 6,3 n_{max} 8000

84 201 ...

Adapter	KOMET no.	SZID	DCONWS	LPR	LB	LB_1	LB_2	BD_2		
			mm	mm	mm	mm	mm	mm		
SK 40	A50 00120	ABS 25	13	50	30,9	23,0			04090	
SK 40	A50 55120	ABS 25	13	50	30,9	20,0	7,9	50		04090
SK 40	A50 00130	ABS 32	16	50	30,9	23,0			04089	
SK 40	A50 55130	ABS 32	16	50	30,9	20,0	7,9	50		04089
SK 40	A50 00140	ABS 40	20	50	30,9				04088	
SK 40	A50 55140	ABS 40	20	50	30,9	20,0		50		04088
SK 40	A50 00150	ABS 50	28	50	30,9				04097	
SK 40	A50 55150	ABS 50	28	50	30,9					04097
SK 40	A50 00160	ABS 63	34	90	70,9		15,9	50	04096	
SK 40	A50 55160	ABS 63	34	90	70,9		15,9	50		04096
SK 50	A50 00320	ABS 25	13	60	40,9	31,0			05090	
SK 50	A50 55320	ABS 25	13	60	40,9	20,0	12,9	80		05090
SK 50	A50 00330	ABS 32	16	60	40,9	31,0			05089	
SK 50	A50 55330	ABS 32	16	60	40,9	20,0	12,9	80		05089
SK 50	A50 00340	ABS 40	20	60	40,9	31,0			05088	
SK 50	A50 55340	ABS 40	20	60	40,9	20,0	12,9	80		05088
SK 50	A50 00350	ABS 50	28	60	40,9				05097	
SK 50	A50 55350	ABS 50	28	60	40,9	22,0	10,9	80		05097
SK 50	A50 00360	ABS 63	34	60	40,9				05096	
SK 50	A50 55360	ABS 63	34	60	40,9	30,4	7,3	80		05096
SK 50	A50 00370	ABS 80	46	70	50,9				05092	
SK 50	A50 55370	ABS 80	46	70	50,9					05092
SK 50	A50 00380	ABS 100	56	115	95,9		15,9	80	05091	
SK 50	A50 55380	ABS 100	56	115	95,9		15,9	80		05091
SK 50	A50 00390	ABS 125	70	145	125,9		15,9	80	05085	

Conversion kit – Cooling agent supply



84 950 ...

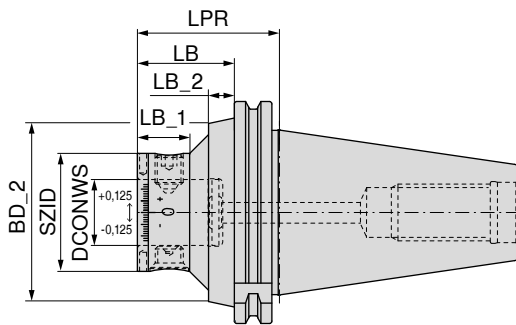
for		
4 mm	SK 40	23200
6 mm	SK 50	23400

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



NEW



AD/B

84 204 ...

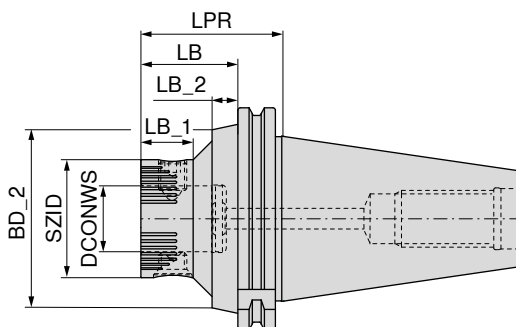
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm	
SK 40	A50 56150	ABS 50	28	50	30,9				04097
SK 40	A50 56160	ABS 63	34	90	70,9		15,9	50	04096
SK 50	A50 56350	ABS 50	28	60	40,9	22,0	10,9	80	05097
SK 50	A50 56360	ABS 63	34	60	40,9	30,4	7,3	80	05096

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



NEW



AD/B

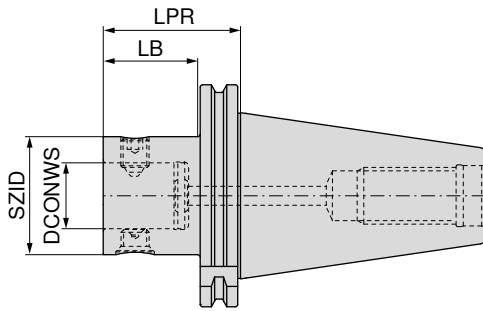
84 207 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm	
SK 40	A50 01351	ABS 50	28	50	30,9				04097
SK 40	A50 01361	ABS 63	34	90	70,9		15,9	50	04096
SK 50	A50 01451	ABS 50	28	60	40,9	22,0	10,9	80	05097
SK 50	A50 01461	ABS 63	34	60	40,9	30,4	7,3	80	05096
SK 50	A50 01470	ABS 80	46	70	50,9				05092

Adapter with ABS Connection – SK-FC

▲ with face contact

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



NEW



AD

G 6,3 n_{max} 8000

84 213 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	
SK-FC 40	A50 57151	ABS 50	28	50	30,9	04097
SK-FC 40	A50 57161	ABS 63	34	90	70,9	04096
SK-FC 50	A50 57351	ABS 50	28	60	40,9	05097
SK-FC 50	A50 57361	ABS 63	34	60	40,9	05096
SK-FC 50	A50 57371	ABS 80	46	70	50,9	05092
SK-FC 50	A50 57381	ABS 100	56	115	95,9	05091

Spare parts

SZID			
ABS 50	20300	99800	20400
ABS 63	25500	99400	27300
ABS 80	25600	99300	25100
ABS 100	25700	99200	25200

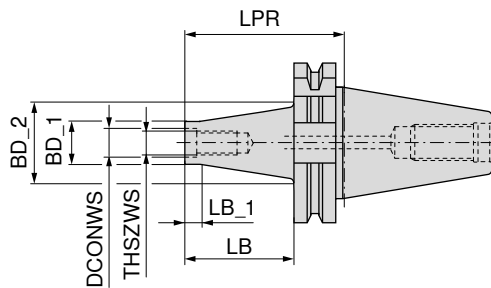
Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...

Accessories

Pull studs	Extension	Others
→ 57–58	→ 193	→ 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 16 n_{max} 8000

56 707 ...



AD
G 6,3 n_{max} 18000

56 705 ...



AD
G 2,5 n_{max} 30000

56 703 ...

Adapter	THSZWS	DCONWS mm	LB mm	BD_1 mm	BD_2 mm	LB_1 mm	LPR mm
SK 30	M8	8,5	25	13,8	18,0	12	44
SK 30	M8	8,5	50	13,8	23,0	12	69
SK 30	M10	10,5	25	18,0	23,0	12	44
SK 30	M10	10,5	50	18,0	25,0	12	69
SK 30	M12	12,5	25	21,0	24,0	12	44
SK 30	M12	12,5	50	21,0	30,0	12	69
SK 30	M16	17,0	25	29,0	30,5	12	44
SK 30	M16	17,0	50	29,0	34,0	12	69
SK 40	M8	8,5	25	13,8	15,0	12	44
SK 40	M8	8,5	50	13,8	23,0	12	69
SK 40	M8	8,5	75	13,8	25,0	12	94
SK 40	M10	10,5	25	18,0	23,0	12	44
SK 40	M10	10,5	50	18,0	25,0	12	69
SK 40	M10	10,5	75	18,0	30,0	12	94
SK 40	M10	10,5	100	18,0	35,0	12	119
SK 40	M12	12,5	25	21,0	24,0	12	44
SK 40	M12	12,5	50	21,0	30,0	12	69
SK 40	M12	12,5	75	21,0	35,0	12	94
SK 40	M12	12,5	100	21,0	38,0	12	119
SK 40	M16	17,0	25	29,0	29,0	12	44
SK 40	M16	17,0	50	29,0	34,0	12	69
SK 40	M16	17,0	75	29,0	35,0	12	94
SK 40	M16	17,0	100	29,0	40,0	12	119
SK 40	M16	17,0	125	29,0	44,0	12	144
SK 40	M16	17,0	150	29,0	48,0	12	169
SK 40	M16	17,0	200	29,0	50,0	12	219
SK 50	M12	12,5	50	21,0	30,0	12	69
SK 50	M12	12,5	100	21,0	38,0	12	119
SK 50	M12	12,5	150	21,0	52,0	12	169
SK 50	M16	17,0	50	29,0	34,0	12	69
SK 50	M16	17,0	100	29,0	40,0	12	119
SK 50	M16	17,0	150	29,0	48,0	12	169
SK 50	M16	17,0	200	29,0	58,0	12	219
SK 50	M16	17,0	250	29,0	62,0	12	269

081	082	101	102	121	122	161	162
081	082	101	102	121	122	161	162
083	101	102	103	121	122	161	162
101	102	103	104	121	122	161	162
102	103	104	121	122	123	161	162
121	122	123	124	161	162	163	164
161	162	163	164	165	166	167	168
162	163	164	165	166	167	168	
163	164	165	166	167	168		
164	165	166	167	168			
165	166	167	168				
166	167	168					
167	168						
168							

Accessories



Extension-
Reduction set

→ 245

Pull studs

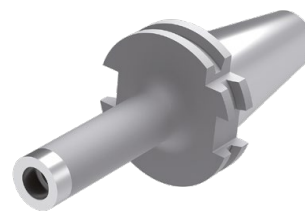
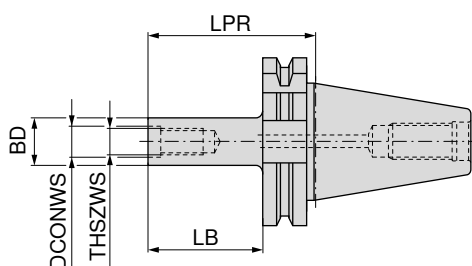
→ 57–58

Others

→ 273

Adapter for milling cutters with threaded end

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

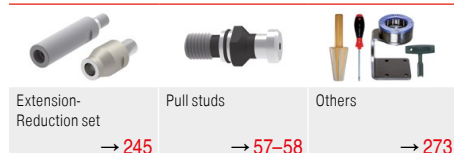


AD
G 6,3 n_{max} 18000

56 709 ...

Adapter	THSZWS	DCONWS mm	LB mm	BD mm	LPR mm	
SK 40	M8	8,5	50	13,8	69	082
SK 40	M10	10,5	50	18,0	69	102
SK 40	M10	10,5	75	18,0	94	103
SK 40	M10	10,5	100	18,0	119	104
SK 40	M12	12,5	50	21,0	69	122
SK 40	M12	12,5	75	21,0	94	123
SK 40	M12	12,5	100	21,0	119	124
SK 40	M16	17,0	50	29,0	69	162
SK 40	M16	17,0	75	29,0	94	163
SK 40	M16	17,0	100	29,0	119	164

Accessories



Extension-
Reduction set
→ 245

Pull studs
→ 57–58

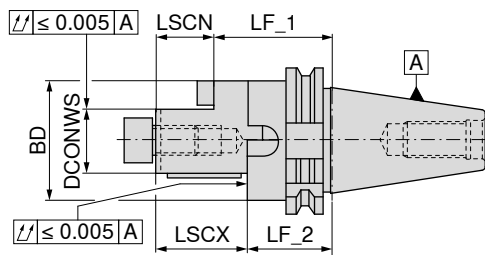
Others
→ 273

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 retaining screw, driving ring and dowel spring



A
G 6,3 $n_{\max}$ 8000

82 429 ...

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm	
short	SK 30	16	50	32	27	17	40	01600
	SK 30	22	50	40	31	19	38	02200
	SK 30	27	55	48	33	21	43	02700
	SK 30	32	60	58	38	24	46	03200
	SK 40	16	55	32	27	17	45	116
	SK 40	22	55	40	31	19	43	122
	SK 40	27	55	48	33	21	43	127
	SK 40	32	60	58	38	24	46	132
	SK 40	40	60	70	41	27	46	140 ¹⁾
	SK 50	16	55	32	27	17	45	316
	SK 50	22	55	40	31	19	43	322
	SK 50	27	55	48	33	21	43	327
	SK 50	32	55	58	38	24	41	332
	SK 50	40	55	70	41	27	41	340 ¹⁾
	SK 50	50	70	90	46	30	54	350 ¹⁾
long	SK 40	16	100	32	27	17	90	21600
	SK 40	22	100	40	31	19	88	22200
	SK 40	27	100	48	33	21	88	22700
	SK 40	32	100	58	38	24	86	23200
	SK 40	40	100	70	41	27	86	24000

1) With cross screw



Parallel key



Drive ring



Cross nut key



Retaining screw



clamping screw

83 950 ...

83 370 ...

83 368 ...

83 367 ...

83 950 ...

Spare parts

DCONWS								
16	4 x 4 x 20	284	116	116	M8	016	M8x25	113
22	6 x 6 x 25	285	122	122	M10	022	M10x25	124
27	7 x 7 x 25	286	127	127	M12	027	M12x30	125
32	8 x 7 x 28	287	132	132	M16	032	M16x35	126
40	10 x 8 x 32	288	140	140	M20	040	M20x40 - SW17	112
50	12 x 8 x 36	289	150	150	M24	050		

Accessories



Pull studs



Milling Adapter Rings



Others

→ 57-58

→ 253

→ 273

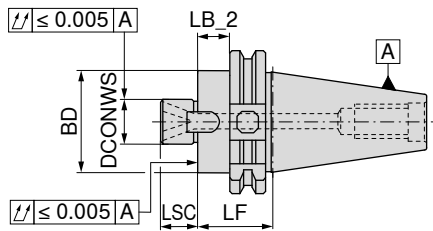
Shell mill adapter

▲ Screwed drive dogs

▲ also available with Balluff chip on request

Scope of supply:

Toolholder with retaining screw



A
G 2,5 n_{max} 18000



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

82 428 ...

82 428 ...

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
short	SK 30	16	21,0	40	38	17		01600
	SK 30	22	14,6	50	48	19		02200
	SK 30	27	19,3	55	58	21		02700
	SK 30	32	31,0	50	78	24		03200
	SK 40	16	25,0	44	38	17		116
	SK 40	22	25,0	44	48	19		122
	SK 40	27	36,0	55	58	21		127
	SK 40	32	31,0	50	78	24		132
	SK 40	40	31,0	50	88	27		140 ¹⁾
	SK 50	16	25,0	44	38	17		316
	SK 50	22	25,0	44	48	19		322
	SK 50	27	25,0	44	58	21		327
	SK 50	32	21,0	40	78	24		332
	SK 50	40	31,0	50	88	27		340 ¹⁾
	SK 40	16	81,0	100	38	17		416
	SK 40	22	81,0	100	48	19		422
long	SK 40	27	81,0	100	58	21		427
	SK 40	32	81,0	100	78	24		432
	SK 40	40	81,0	100	88	27		440 ¹⁾
	SK 50	16	81,0	100	38	17		616
	SK 50	22	81,0	100	48	19		622
	SK 50	27	81,0	100	58	21		627
	SK 50	32	81,0	100	78	24		632
	SK 50	40	81,0	100	88	27		640 ¹⁾
	SK 40	16	111,0	130	38	17		816
	SK 40	22	111,0	130	48	19		822
medium length	SK 40	27	111,0	130	58	21		827
	SK 40	32	111,0	130	78	24		832
	SK 40	40	111,0	130	88	27		840 ¹⁾
	SK 50	16	111,0	130	38	17		916
	SK 50	22	111,0	130	48	19		922
	SK 50	27	111,0	130	58	21		927
	SK 50	32	111,0	130	78	24		932
	SK 50	40	111,0	130	88	27		940
	SK 40	16	141,0	160	38	17		516
	SK 40	22	141,0	160	48	19		522
extra-long	SK 40	27	141,0	160	58	21		527
	SK 40	32	141,0	160	78	24		532
	SK 40	40	141,0	160	88	27		540 ¹⁾
	SK 50	16	141,0	160	38	17		716
	SK 50	22	141,0	160	48	19		722
	SK 50	27	141,0	160	58	21		727
	SK 50	32	141,0	160	78	24		732
	SK 50	40	141,0	160	88	27		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

								
	83 368 ...			83 367 ...			83 950 ...	
Spare parts								
DCONWS								
16	116	M8		016	M8x25		113	
22	122	M10		022	M10x25		124	
27	127	M12		027	M12x30		125	
32	132	M16		032	M16x35		126	
40	140	M20		040	M20x40 - SW17		112	
								
				83 950 ...			83 950 ...	
Spare parts								
DCONWS								
16		M3x8		296	8x9x17,5		120	
22		M4x12		297	10x11x20,5		121	
27		M5x12		136	12x13x24,3		122	
32		M5x20		137	14x21x21,2		123	
40		M6x16		138	15,9x16,3x19,5		295	

Accessories

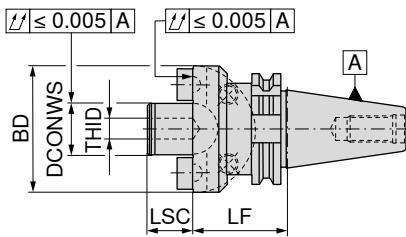
		
Pull studs	Extensions	Others
→ 57–58	→ 252	→ 273

Large diameter facemill adapter

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

Scope of supply:

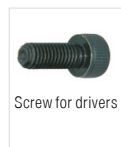
Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws



A
G 6,3 n_{max} 8000

82 432 ...

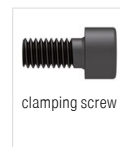
Adapter	DCONWS mm	LF mm	BD mm	LSC mm	THID	
SK 40	40	60	89	30	M20	040
SK 50	40	70	89	30	M20	240
SK 50	60	70	129	40	M30	260



Screw for drivers



Driver



clamping screw

83 950 ...

83 950 ...

83 950 ...

Spare parts

DCONWS						
40	M6x16	138	15,9x16,3x19,5	295	M12x50	140
60			25,4x16,3x26,5	298	M16x45	160

Accessories



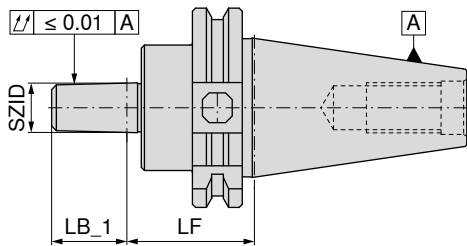
Pull studs
→ 57-58



Others
→ 273

Drill chuck adapter

▲ also available with Balluff chip on request



A
G 6,3 n_{max} 8000

82 423 ...

Adapter	SZID	LF mm	LB_1 mm	
SK 40	B12	40	18,5	112
SK 40	B16	40	24,0	116
SK 50	B16	40	24,0	316
SK 50	B18	40	32,0	318



Drill chuck



Drill chuck

83 636 ...

83 636 ...

Spare parts

SZID				
B12	0 - 8 mm	012	0 - 10 mm	112
B16	1 - 13 mm	016	3 - 16 mm	116
B18			3 - 16 mm	018

Accessories



Pull studs

→ 57-58



Others

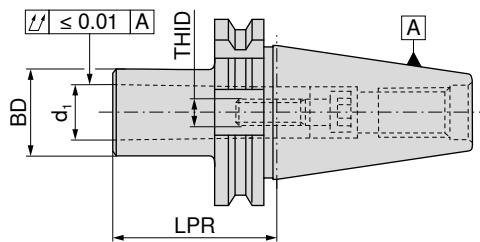
→ 273

Milling sleeve adapters DIN 6364 for DIN 228-2C Morse taper shanks with thread

▲ also available with Balluff chip on request

Scope of supply:

Holder with retaining screw

A
G 6,3 n_{max} 8000

82 446 ...

	Adapter	d ₁	LPR mm	BD mm	THID	
short	SK 40	MK1	50	25	M6	110
	SK 40	MK2	50	32	M10	120
	SK 40	MK3	70	40	M12	130
	SK 40	MK4	95	48	M16	140
	SK 50	MK1	45	25	M6	310
	SK 50	MK2	60	32	M10	320
	SK 50	MK3	65	40	M12	330
	SK 50	MK4	95	48	M16	340
	SK 50	MK5	120	63	M20	350

Morse taper
clamping screw

83 950 ...



Counterscrew

83 950 ...

Hollow key with
nose

83 359 ...



Fixing ring

83 950 ...

Spare parts
for Article no.

82 446 110	M6x30	260	M5x6	030	16 x 32	013	M16x8x6,5	265
82 446 120	M10x30	261	M5x8	031	16 x 32	013	M16x8x10,5	267
82 446 130	M12x35	018	M5x6	030	17 x 117	017	M20x1,5x10x13	269
82 446 140	M16x40	019	M5x8	031	23 x 145	023	M26x1,5x17	270
82 446 310	M6x30	260	M5x8	031	20 x 135	020	M24x10x6,5	266
82 446 320	M10x30	017	M5x8	031	20 x 135	020	M24x10x10,5	268
82 446 330	M10x30	017	M5x8	031	17 x 117	017	M20x1,5x10x13	269
82 446 340	M16x40	019	M5x8	031	23 x 145	023	M26x1,5x17	270
82 446 350	M20x50	262	M5x8	031	33 x 175	033	M36x1,5x21	271

Accessories



Pull studs

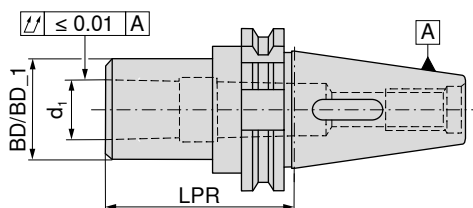
→ 57–58



Others

→ 273

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 ...**

	Adapter	d ₁	LPR mm	BD mm	BD_1 mm	
short	SK 30	MK1	50	25		01000
	SK 30	MK2	63	32		02000
	SK 30	MK3	80	40		03000
	SK 40	MK1	50		25	110
	SK 40	MK2	50		32	120
	SK 40	MK3	70		40	130
	SK 40	MK4	95	48		140
	SK 50	MK1	50		25	310
	SK 50	MK2	60		32	320
	SK 50	MK3	65		40	330
	SK 50	MK4	95		48	340
	SK 50	MK5	105		63	350
long	SK 40	MK2	117	32		22000
	SK 40	MK3	133	40		23000
	SK 40	MK4	156	48		24000

Accessories

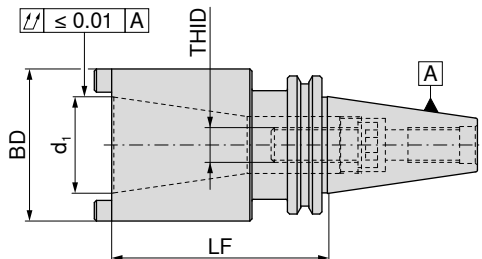
		
Morse taper adapter sleeve	Pull studs	Others
→ 230	→ 57–58	→ 273

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 $n_{\max}$ 8000

82 453 ...

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	
					03000 040 240 250

Spare parts for Article no.

82 453 03000					
82 453 040					
82 453 240					
82 453 250					

Clamping screw SK	Morse taper clamping screw	Counterscrew	Hollow key with nose	Fixing ring
83 950 ...	83 950 ...	83 950 ...	83 359 ...	83 950 ...

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

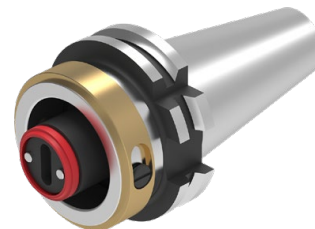
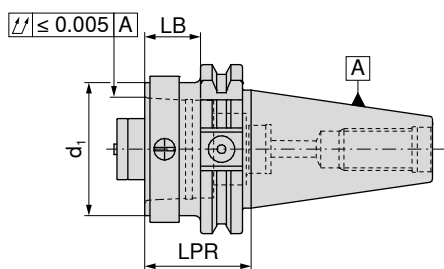
ISO 7388-1	Norm of the SK-shank		Clamping screw length				
	Ø d ₁ ISO 7388-1	Ø d ₁ DIN 2080					
Suitable for article no.			THID	Clamping screw SK Article no.	retaining ring Article no.	lock screw Article no.	hollow key Article no.
82 453 03000		SK 30	M12 x 40	83 950 18400	83 950 18500	83 950 030	83 359 017
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



NEW



AD

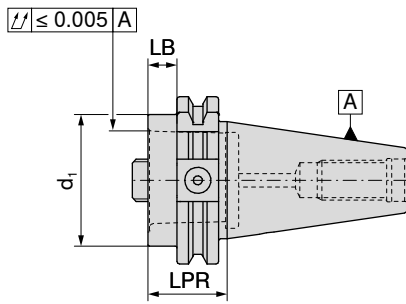
84 014 ...

Adapter	d ₁	LB mm	LPR mm	
SK 40	HSK-A 32	20,9	40	04060
SK 40	HSK-A 40	20,9	40	04059
SK 40	HSK-A 50	20,9	40	04058
SK 40	HSK-A 63	60,9	80	04057
SK 50	HSK-A 100	80,9	100	05055
SK 50	HSK-A 32	20,9	40	05060
SK 50	HSK-A 40	20,9	40	05059
SK 50	HSK-A 50	20,9	40	05058
SK 50	HSK-A 63	20,9	40	05057

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



84 015 ...

Adapter	d ₁	LB mm	LPR mm	
SK 40	PSC 32	10,9	30	04087
SK 40	PSC 40	10,9	30	04095
SK 40	PSC 50	10,9	30	04094
SK 40	PSC 63	65,9	85	04093
SK 50	PSC 32	10,9	30	05087
SK 50	PSC 40	10,9	30	05095
SK 50	PSC 50	10,9	30	05094
SK 50	PSC 63	10,9	30	05093
SK 50	PSC 80	50,9	70	05086



Threaded ring

84 950 ...



tightening screw

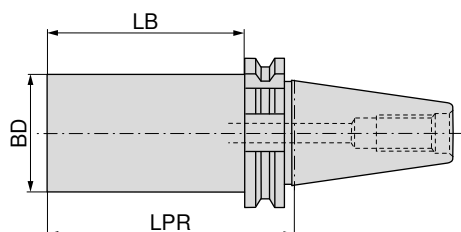
84 950 ...

Spare parts
DCONWS

22	127	SW8	122
28	128	SW8	123
35	129	SW10	124
44	130	SW14	126
55	130	SW14	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 ...

Adapter	BD mm	LPR mm	LB mm
SK 40	63,0	250	231
SK 50	63,5	300	281

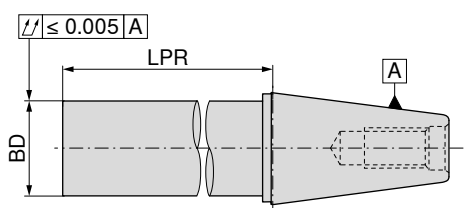
040
050

Test bar

- ▲ Without clamping slots
- ▲ MAS BT 40 special pull stud with LF = 32 mm

Scope of supply:

in wooden box



A

82 456 ...

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

040
050

Accessories



Pull studs

→ 57–58, 111–112



Others

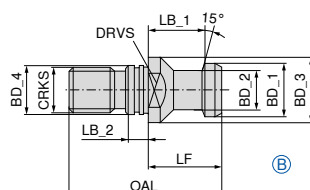
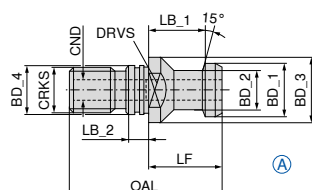
→ 273

Pull studs for tool holders according to ISO 7388-1

- ▲ DIN 69872 form A and B
- ▲ For tools with or without axial coolant supply

Scope of supply:

including O-Ring



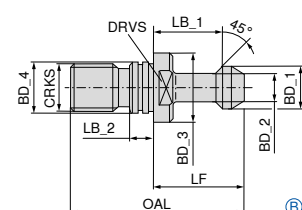
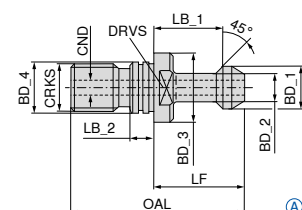
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	form	82 475 ...	82 468 ...
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm			
SK 30	13	9	17	13	M12	44	24	19	5	3,5	14	60	A		
SK 40	19	14	23	17	M16	54	26	20	7	7,0	19	90	A		
SK 50	28	21	36	25	M24	74	34	25	10	11,5	30	145	A		
SK 30	13	9	17	13	M12	44	24	19	5		14	60	B	030	
SK 40	19	14	23	17	M16	54	26	20	7		19	90	B	040	
SK 50	28	21	36	25	M24	74	34	25	10		30	145	B	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	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	form	83 538 ...	83 535 ...
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm			
SK 40	15	10	23	17	M16	57	32	25	5	4	19	90	A		
SK 40	15	10	23	17	M16	57	32	25	5		19	90	B	040	040



Spare parts

BD_4

17	BT / SK 40	040
25	BT / SK 50	050

83 476 ...

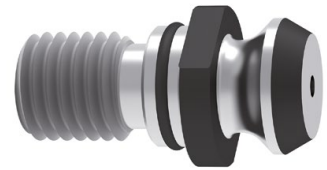
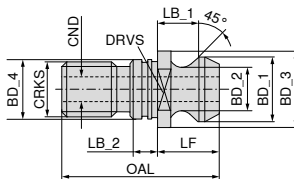
Pull studs for tool holders according to ISO 7388-1

▲ Similar to ISO / DIS 7388 (ANSI-CAT only for SK 40) Form A

Scope of supply:

SK 50 including O-ring

SK 40 without O-ring groove



82 487 ...

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
SK 40	18,79	12,44	22,5	17	M16	41,26	16,25	11,17	4,0	6,0	19	90
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	145

040

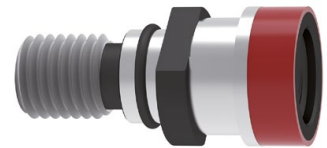
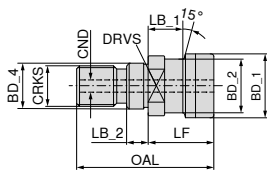
050

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



without internal
thread

82 493 ...

with internal
thread

82 494 ...

Adapter	BD_1 mm	BD_2 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm
SK 40	25,0	21,1	17	M16	53	25	13,6	8	7	19	90
SK 50	39,3	32,0	25	M24	65	25	13,3	10	30	145	

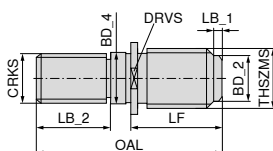
040
050¹⁾

040
050

1) with O ring

Pull studs for tool holders according to ISO 7388-1

▲ DECKEL thread S 20 x 2



83 471 ...

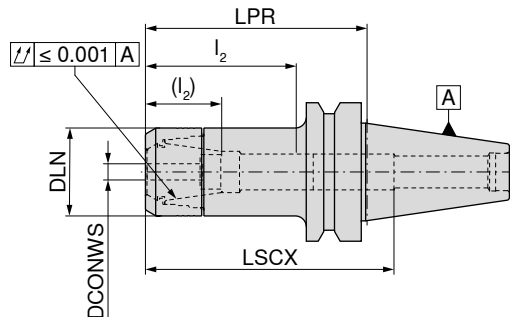
Adapter	THSZMS	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	BD_2 mm	BD_4 mm	DRVS mm
SK 40	S 20 x 2	M16	55	33	4	17	16,7	17	22

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** backstopAD
G 2,5 $n_{\max}$ 25000

84 524 ...

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

→ Transmittable torque moments, Page 300



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

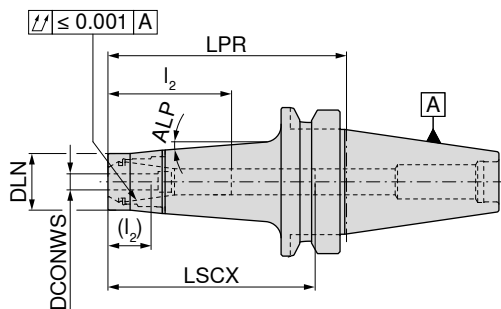
Spare parts, ER precision collet chuck – Centro-P

				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet				
426E (ER16)	011	001	M11x1 - SW6	341
430E (ER25)	013	003	M18x1,5 - SW6	432
470E (ER32)	015	005	M22x1,5 - SW6	402
472E (ER40)	017	007	M28x1,5 - SW6	337
				431
				401
				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** backstopAD/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	
BT 40	1 - 10	100	24	72	28 - 48 (20 - 35)	426E (ER16)	4,5°	410
BT 40	1 - 10	135	24	165	28 - 48 (20 - 35)	426E (ER16)		31000
BT 40	1 - 10	160	24	180	28 - 48 (20 - 35)	426E (ER16)	4,5°	510

→ Transmittable torque moments, Page 300



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				
426E (ER16)	033	031	M11x1 - SW6	341
				M11x1 - SW6
				337

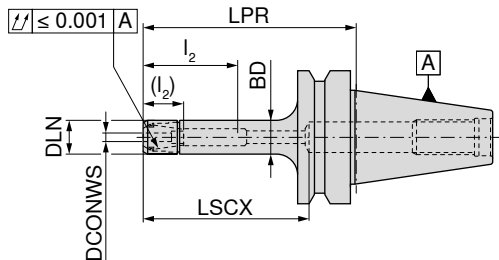
Accessories

					
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256–263, 266	→ 269	→ 275	→ 275	→ 111–112	→ 273

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** backstopAD
G 2,5 $n_{\max}$ 25000

84 507 ...

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

84 508 ...

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	I_2 (I_2) mm	for collet		
BT 30	1 - 7	50	16	16	68	18 - 32 (12 - 22)	4008E (ER11)		
BT 30	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	007 008	
BT 40	1 - 7	75	16	16	100	15 - 30 (8 - 21)	4008E (ER11)		307
BT 40	1 - 7	90	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		40600
BT 40	1 - 7	120	16	16	140	15 - 30 (8 - 21)	4008E (ER11)		507
BT 40	1 - 7	150	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		90600
BT 40	1 - 10	75	22	22	100	27 - 49 (16 - 32)	426E (ER16)		216
BT 40	1 - 10	90	22	22	115	27 - 49 (16 - 32)	426E (ER16)		316
BT 40	1 - 10	120	22	22	145	27 - 49 (16 - 32)	426E (ER16)		416
BT 40	1 - 10	150	22	22	175	27 - 49 (16 - 32)	426E (ER16)		516



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



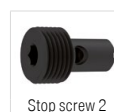
Mini lock nut IK

84 950 ...



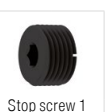
Mini lock nut

84 950 ...



Stop screw 2

83 950 ...



Stop screw 1

83 950 ...

Spare parts
for collet

4008E (ER11)		041	M8x1 - SW4	340	M8x1 - SW4	336
426E (ER16)	035	034	M11x1 - SW6	341	M11x1 - SW6	337

Accessories

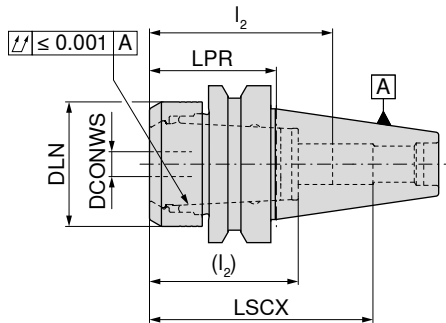
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 256-263, 266	→ 269	→ 274	→ 275	→ 275	→ 111-112	→ 273

OZ Precision Collet Chuck – Centro-P

- ▲ 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

84 513 ...

225

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet
BT 40	2 - 25	51	50	89	70 (56)	462E

→ Transmittable torque moments, Page 300



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

462E

84 950 ...	84 950 ...	83 950 ...	83 950 ...
020	009	402	401
		M22x1,5 - SW6	M22x1,5 - SW6

Accessories

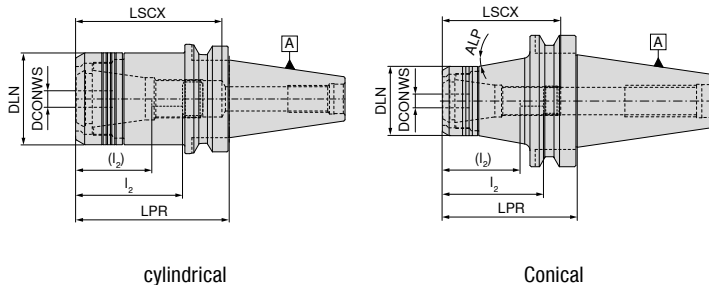
OZ Collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 267	→ 267	→ 275	→ 275	→ 111–112	→ 273

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



NEW



AD

G 6,3 n_{max} 18000

cylindrical

84 400 ...

NEW



AD

G 6,3 n_{max} 18000

conical

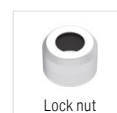
84 400 ...

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)		12069
BT 40	2 - 20	90	53	85	41 - 63 (27 - 45)		470E (ER32)		22069
BT 50	2 - 20	75	53	114	41 - 80 (27 - 62)	10	470E (ER32)		12068
BT 50	2 - 20	105	53	140	41 - 80 (27 - 62)	10	470E (ER32)		22068



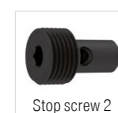
LSCX = Clamping depth without backstop screw

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



Lock nut

84 950 ...



Stop screw 2

83 950 ...



Stop screw 1

83 950 ...

Spare parts

DCONWS

2 - 20	30100	M22x1,5 - SW6	402	M22x1,5 - SW6	401
--------	-------	---------------	-----	---------------	-----

Accessories

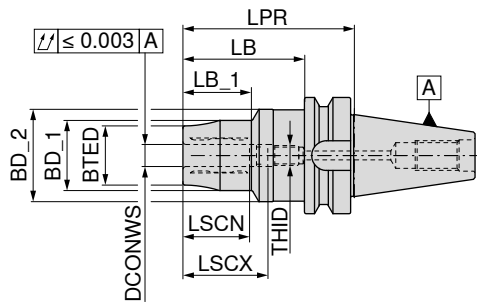
ER collet	Roll key	Roll key device	Pull studs	Others
→ 256–266	→ 275	→ 275	→ 111–112	→ 273

High pressure chuck, short version

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

Scope of supply:

Base body with backstop screw and pressure screw

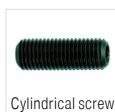


AD/B
G 2,5 n_{max} 25000

83 526 ...

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

→ Min. clamping depth, Page 300



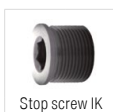
83 950 ...



80 397 ...



83 950 ...



83 950 ...

Spare parts for Article no.

83 526 116	M5x5 - SW2,5	157	SW5	050	M10x1x14	429	M12x1x18	446
83 526 120	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M16x1x18,5	448
83 526 125	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M16x1x22	449
83 526 132	M5x5 - SW2,5	157	SW5	050	M10x1x14	429	M16x1x25	450

Accessories

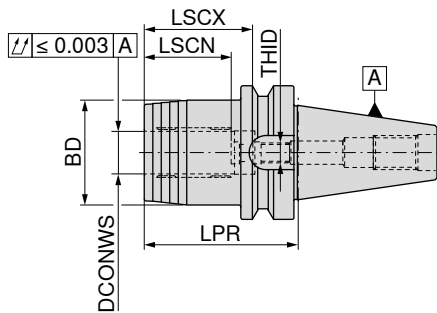
		
Reduction sleeve	Pull studs	Others
→ 271	→ 57-58	→ 273

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



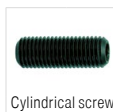
AD/B
G 2,5 n_{max} 25000

83 513 ...

120

→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
BT 40	20	72,5	49	51	40	M16x1x13,5



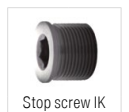
83 950 ...



80 397 ...



83 950 ...



83 950 ...

Spare parts
for Article no.
83 513 120

M5x5 - SW2,5

157

SW5

050

M10x1x14

429

M16x1x13,5 - SW8

424

Accessories



→ 271



→ 111-112



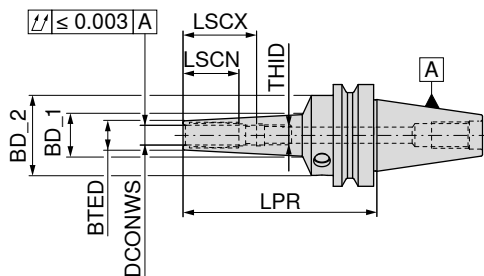
→ 273

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

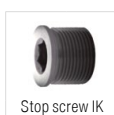
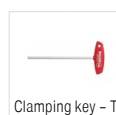
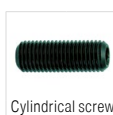


AD/B
G 2,5 n_{max} 25000

83 522 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	
long	BT40	3	120	9	16,55	49,5	28	12	M3	103
	BT40	4	120	10	17,55	49,5	28	16	M3	104
	BT40	5	120	11	18,55	49,5	28	20	M3	105
	BT40	6	120	12	19,55	49,5	37	27	M5	106
	BT40	8	120	14	21,55	49,5	37	27	M6	108
	BT40	10	120	16	23,65	49,5	41	31	M8x1	110
	BT40	12	120	18	25,76	49,5	46	36	M10x1	112
	BT40	16	120	24	31,45	49,5	49	39	M12x1	116
	BT40	20	120	28	35,55	49,5	51	41	M16x1	120
	BT40	6	160	16	33,53	49,5	37	27	M5	206
	BT40	8	160	18	34,60	49,5	37	27	M6	208
	BT40	10	160	20	36,27	49,5	41	31	M8x1	210
	BT40	12	160	22	37,88	49,5	46	36	M10x1	212
	BT40	6	200	16	37,88	49,5	37	27	M5	306
	BT40	8	200	18	38,90	49,5	37	27	M6	308
	BT40	10	200	20	40,57	49,5	41	31	M8x1	310
	BT40	12	200	22	42,18	49,5	46	36	M10x1	312

→ Min. clamping depth, Page 300



83 950 ...

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

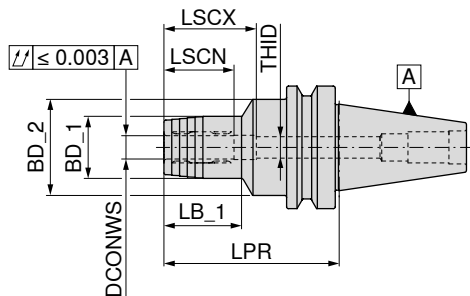
83 522 103	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 522 104	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 522 105	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 522 106	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
83 522 108	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
83 522 110	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420
83 522 112	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M10x1x13,5 - SW5	421
83 522 116	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M12x1x13,5 - SW5	422
83 522 120	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M16x1x13,5 - SW8	424
83 522 206	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
83 522 208	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
83 522 210	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420
83 522 212	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M10x1x13,5 - SW5	421
83 522 306	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
83 522 308	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
83 522 310	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420
83 522 312	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M10x1x13,5 - SW5	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

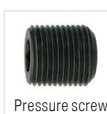


AD/B
G 2,5 n_{max} 25000

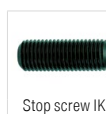
83 521 ...

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	106
BT 40	8	90	28	49,5	37	27	30	M6	108
BT 40	10	90	30	49,5	41	31	35	M8x1	110
BT 40	12	90	32	49,5	46	36	40	M10x1	112
BT 40	16	90	38	49,5	49	39	45	M12x1	116
BT 40	20	90	42	49,5	51	41	47	M16x1	120
BT 40	25	90	55	52,0	57	47	50	M16x1	125
BT 40	32	90	63	62,0	61	51	48	M16x1	132
BT 50	6	90	26	49,5	37	27	29	M5	306
BT 50	8	90	28	49,5	37	27	30	M6	308
BT 50	10	90	30	49,5	41	31	34	M8x1	310
BT 50	12	90	32	49,5	46	36	34	M10x1	312
BT 50	16	90	38	49,5	49	39	35	M12x1	316
BT 50	20	90	42	49,5	51	41	35	M16x1	320
BT 50	25	110	55	63,0	57	47	48	M16x1	325
BT 50	32	110	63	70,0	61	51	50	M16x1	332

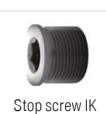
→ Min. clamping depth, Page 300



83 950 ...



83 950 ...



83 950 ...

Spare parts

6	M8x1x10	439	M6x14 - SW2	417	M5x12,5 - SW2,5	418
8	M8x1x10	439			M6x12,5 - SW3	419
10	M10x1x12	440			M8x1x13,5 - SW3	420
12	M10x1x12	440			M10x1x13,5 - SW5	421
16	M10x1x12	440			M12x1x13,5 - SW5	422
20 - 32	M10x1x12	440			M16x1x13,5 - SW8	424

Accessories

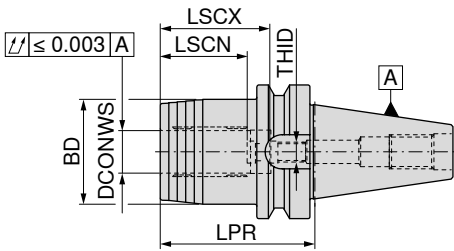


Hydraulic chuck MAS BT, short and stable version

- ▲ 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

83 518 ...

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
BT 40	20	72,5	49,5	51	41	M16x1
BT 50	32	90,0	72,0	61	51	M16x1

120

332

→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK

83 950 ...

83 950 ...

Spare parts
DCONWS
20 - 32

M10x1x12

440

M16x1x13,5 - SW8

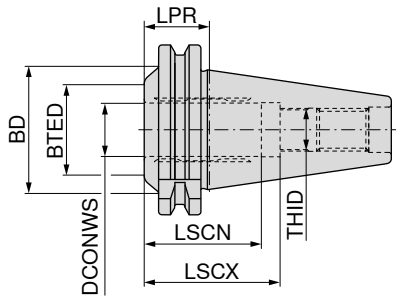
424

Hydraulic chuck, extra short

- ▲ 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



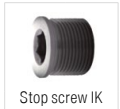
AD
G 2,5 n_{max} 25000

83 523 ...

120

→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
BT 40	20	32,5	34	48	51	41	M16x1



Stop screw IK

83 950 ...

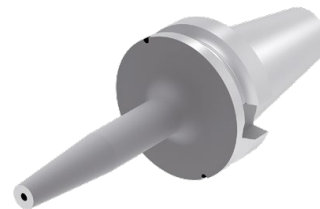
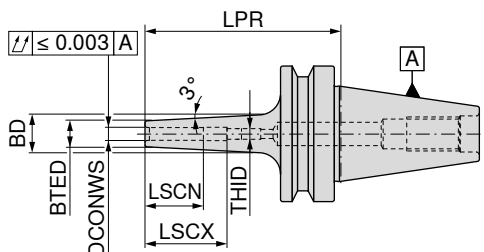
424

**Spare parts
for Article no.**
83 523 120

Shrink adapter, Slim 3°

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

TG

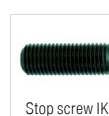


AD/B
G 2,5 n_{max} 25000

84 323 ...

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

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK

83 950 ...

83 950 ...

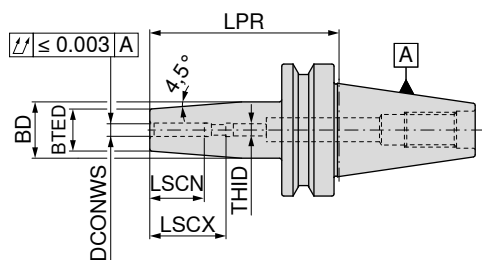
Spare parts
DCONWS

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

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

84 303 ...

84 303 ...

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

→ Min. clamping depth, Page 300

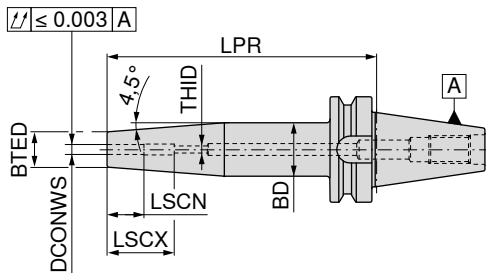
Spare parts heat shrink adapter 4.5°

		 	
		83 950 ...	83 950 ...
Spare parts			
DCONWS			
3 - 5	M6x14 - SW2	417	
6			M5x12,5 - SW2,5 418
8			M6x12,5 - SW3 419
10			M8x1x13,5 - SW3 420
12 - 14			M10x1x13,5 - SW5 421
16 - 18			M12x1x13,5 - SW5 422
20 - 25			M16x1x13,5 - SW8 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} 18000

82 310 ...

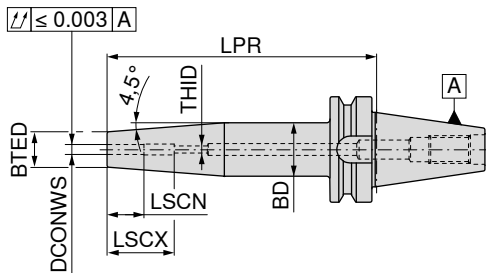
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	BT 40	3	90	11	15				10369
	BT 40	4	90	11	15				10469
	BT 40	5	90	11	15				10569
	BT 40	6	90	21	27	36	26	M5	10669
	BT 40	8	90	21	27	36	26	M6	10869
	BT 40	10	90	24	34	41	31	M8x1	11069
	BT 40	12	90	24	34	46	36	M10x1	11269
	BT 40	14	90	27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

→ Min. clamping depth, Page 300

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} 18000

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	30669
	BT 40	8	160	21	27	36	26	M6	30869
	BT 40	10	160	24	34	41	31	M8x1	31069
	BT 40	12	160	24	34	46	36	M10x1	31269
	BT 40	14	160	27	34	46	36	M10x1	31469
	BT 40	16	160	27	34	49	39	M12x1	31669
	BT 40	18	160	33	42	49	39	M12x1	31869
	BT 40	20	160	33	42	51	41	M16x1	32069
	BT 40	25	160	44	53	57	47	M16x1	32569
	BT 50	6	160	21	27	36	26	M5	30668
	BT 50	8	160	21	27	36	26	M6	30868
	BT 50	10	160	24	32	41	31	M8x1	31068
	BT 50	12	160	24	32	47	37	M10x1	31268
	BT 50	14	160	27	34	47	37	M10x1	31468
	BT 50	16	160	27	34	50	40	M12x1	31668
	BT 50	18	160	33	42	50	40	M12x1	31868
	BT 50	20	160	33	42	52	42	M16x1	32068
	BT 50	25	160	44	53	58	48	M16x1	32568
	BT 50	32	160	44	53	62	52	M16x1	33268

→ Min. clamping depth, Page 300



Stop screw IK

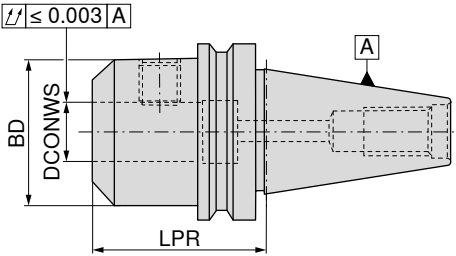
82 950 ...

Spare parts
DCONWS

6	M5x16 - SW2,5	30000
8	M6x16 - SW3	30100
10	M8x16 - SW4	30200
12 - 14	M10x16 - SW5	30300
16 - 18	M12x16 - SW6	30400
20 - 32	M16x16 - SW8	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} 18000



ADe
G 6,3 n_{max} 8000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm
short	BT 30	6	50	25
	BT 30	8	50	28
	BT 30	10	50	35
	BT 30	12	55	42
	BT 30	14	55	44
	BT 30	16	63	48
	BT 30	18	63	50
	BT 30	20	63	52
extra short	BT 40	16	35	48
	BT 40	20	35	50
	BT 40	25	40	50
	BT 40	32	75	72

82 501 ...

82 503 ...

00600
00800
01000
01200
01400
01600
01800
02000
416
420
425
43200

416
420
425
432



62 950 ...

Spare parts

DCONWS_{H4}

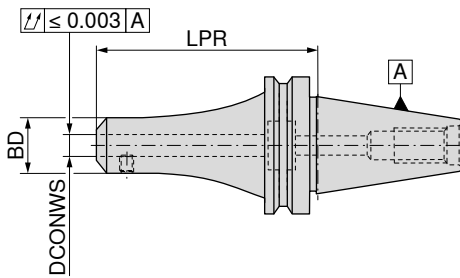
6	M6x10	006
8	M8x10	008
10	M10x12	010
12 - 14	M12x16	012
16 - 18	M14x16	016
20	M16x16	020
25	M18x2x20	025
32	M20x2x20	032

Accessories

Pull studs	Others
→ 111-112	→ 273

Cylindrical shank adapter (Weldon)

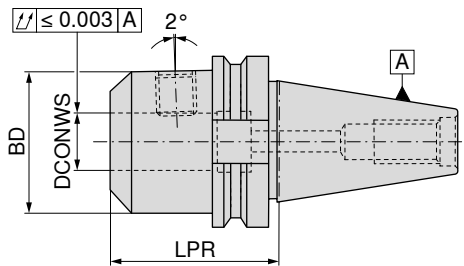
- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
▲ also available with Balluff chip **on request**

AD/B
G 2,5 n_{max} 18000AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 501 ...	82 504 ...
short	BT 40	6	50	25	106	106
	BT 40	8	50	28	108	108
	BT 40	10	63	35	110	110
	BT 40	12	63	42	112	112
	BT 40	14	63	44	114	114
	BT 40	16	63	48	116	116
	BT 40	18	63	50	118	118
	BT 40	20	63	52	120	120
	BT 40	25	100	65	125	125
	BT 40	32	100	72	132	13200
	BT 40	40	120	90	14000	
	BT 50	6	63	25	30600	30600
	BT 50	8	63	28	30800	30800
	BT 50	10	80	35	31000	31000
	BT 50	12	80	42	31200	31200
	BT 50	14	80	44	31400	31400
	BT 50	16	80	48	31600	31600
	BT 50	18	80	50	31800	31800
	BT 50	20	80	52	32000	32000
	BT 50	25	100	65	32500	32500
long	BT 40	6	100	25	506	
	BT 40	8	100	28	508	
	BT 40	10	100	35	510	
	BT 40	12	100	42	512	
	BT 40	14	100	44	514	
	BT 40	16	100	48	516	
	BT 40	18	100	50	518	
	BT 40	20	100	52	520	
	BT 50	6	100	25	70600	
	BT 50	8	100	28	70800	
	BT 50	10	100	35	71000	
	BT 50	12	100	42	71200	
	BT 50	14	100	44	71400	
	BT 50	16	100	48	71600	
	BT 50	18	100	50	71800	
	BT 50	20	100	52	72000	
	BT 50	25	120	65	72500	
extra-long	BT 40	6	160	25	606	
	BT 40	8	160	28	608	
	BT 40	10	160	35	610	
	BT 40	12	160	42	612	
	BT 40	14	160	44	614	
	BT 40	16	160	48	616	
	BT 40	18	160	50	618	
	BT 40	20	160	52	620	
	BT 40	25	160	65	625	
	BT 50	6	160	25	80600	
	BT 50	8	160	28	80800	
	BT 50	10	160	35	81000	
	BT 50	12	160	35	81200	
	BT 50	14	160	44	81400	
	BT 50	16	160	48	81600	
	BT 50	18	160	50	81800	
	BT 50	20	160	52	82000	
	BT 50	25	160	65	82500	
	BT 50	32	160	72	83200	

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**

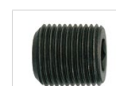


AD/B
G 2,5 n_{max} 18000

82 507 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	
short	BT 40	6	50	25	106
	BT 40	8	50	28	108
	BT 40	10	63	35	110
	BT 40	12	63	42	112
	BT 40	14	63	44	114
	BT 40	16	63	48	116
	BT 40	18	63	50	118
	BT 40	20	63	52	120
	BT 40	25	100	65	12500
	BT 40	32	100	72	13200
	BT 40	40	120	80	14000
	BT 50	6	63	25	30600
	BT 50	8	63	28	30800
	BT 50	10	80	35	31000
	BT 50	12	80	42	31200
	BT 50	14	80	44	31400
	BT 50	16	80	48	31600
	BT 50	18	80	50	31800
	BT 50	20	80	52	32000
	BT 50	25	100	65	32500
	BT 50	32	105	72	33200
medium length	BT 40	6	130	25	206
	BT 40	8	130	28	208
	BT 40	10	130	35	210
	BT 40	12	130	42	212
	BT 40	16	130	48	216
	BT 40	20	130	52	220
	BT 40	25	130	65	225
	BT 50	6	130	25	90600
	BT 50	8	130	28	90800
	BT 50	10	130	35	91000
	BT 50	12	130	42	91200
	BT 50	16	130	48	91600
	BT 50	20	130	52	92000
	BT 50	25	130	65	92500
	BT 50	32	130	72	93200

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



Grubscrew



Stop screw IK

62 950 ...

83 950 ...

Spare parts DCONWS

6	M6x10	006	M5x35	033
8	M8x10	008	M6x35	034
10	M10x12	010	M8x35	035
12 - 14	M12x16	012	M10x35	036
16 - 18	M14x16	016	M12x40	037
20	M16x16	020	M16x45	272
25	M18x2x20	025	M20x35	290
32	M20x2x20	032	M20x35	290
40	M20x2x20	032		

Accessories



Pull studs

→ 111–112

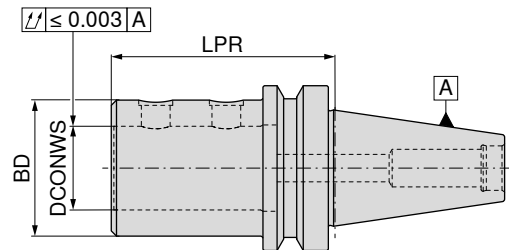


Others

→ 273

Indexable insert drill adapter

▲ 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	120
BT 40	25	80	45	125
BT 40	32	85	52	132
BT 50	20	85	40	220
BT 50	25	90	45	225
BT 50	32	95	52	232
BT 50	40	105	65	240
BT 50	50	113	75	250

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



Grubscrew

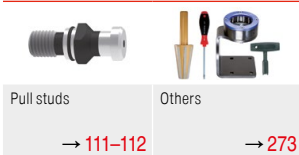
10 950 ...

Spare parts

DCONWS

20	M10x1x10	001
25 - 32	M12x1x10	002
40 - 50	M16x1x12	003

Accessories



Pull studs

Others

→ 111-112

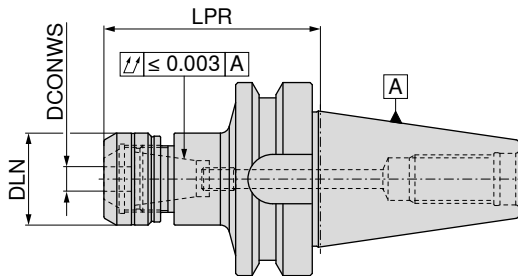
→ 273

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



NEW



AD/B

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

82 700 ...

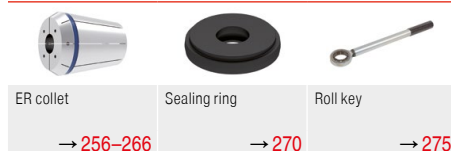
Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	
BT 40	1 - 10	70	30	426E (ER16)	40 / 2-70	11069
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	21069
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	11669
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	21669
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	12069
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	22069
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	11668
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	21668
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	12068
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	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
Spare parts for collet	82 950 ...	82 950 ...	82 950 ...	82 950 ...
426E (ER16)	11000	01000		M8X3,0 00100
430E (ER25)	11600	01600	M18x1,5 00200	M8x8 00300
470E (ER32)	12000	02000	M18x1,5 00200	M8x8 00300

Accessories



ER collet

Sealing ring

Roll key

→ 256-266

→ 270

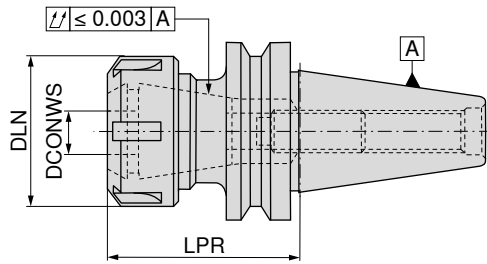
→ 275

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} 18000AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	BT 30	1 - 10	70	32	56	426E (ER16)		
	BT 30	1 - 16	70	42	104	430E (ER25)	01000	
	BT 30	2 - 20	70	50	136	470E (ER32)	01600	
							02000	
	BT 40	1 - 10	60	32	56	426E (ER16)		110
	BT 40	1 - 16	70	42	104	430E (ER25)		116
	BT 40	2 - 20	70	50	136	470E (ER32)		120
	BT 40	3 - 26	70	63	176	472E (ER40)		126
	BT 50	1 - 10	75	32	56	426E (ER16)	31000	
	BT 50	1 - 16	75	42	104	430E (ER25)	31600	
	BT 50	2 - 20	75	50	136	470E (ER32)	32000	
	BT 50	4 - 26	75	63	176	472E (ER40)	32600	
	BT 30	1 - 10	100	32	56	426E (ER16)	21000	
	BT 30	1 - 16	100	42	104	430E (ER25)	21600	
	BT 40	1 - 10	120	32	56	426E (ER16)		410
	BT 40	1 - 16	120	42	104	430E (ER25)		416
long	BT 40	2 - 20	120	50	136	470E (ER32)		420
	BT 40	3 - 26	100	63	176	472E (ER40)		42600
	BT 50	1 - 10	100	32	56	426E (ER16)	71000	
	BT 50	1 - 16	100	42	104	430E (ER25)	71600	
	BT 50	2 - 20	100	50	136	470E (ER32)	72000	
	BT 50	3 - 26	100	63	176	472E (ER40)	72600	
	BT 40	1 - 10	160	32	56	426E (ER16)		51000
	BT 40	1 - 16	160	42	104	430E (ER25)		51600
extra-long	BT 40	2 - 20	160	50	136	470E (ER32)		52000
	BT 40	3 - 26	160	63	176	472E (ER40)		52600
	BT 50	1 - 16	160	42	104	430E (ER25)	81600	
	BT 50	2 - 20	160	50	136	470E (ER32)	82000	

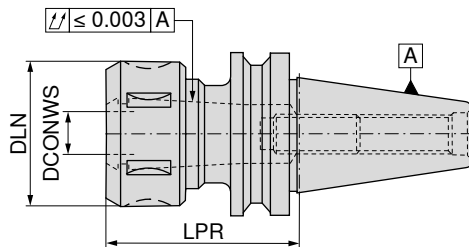
Spare parts
for collet

426E (ER16) / BT30-BT50
 430E (ER25) / BT30
 430E (ER25) / BT40, BT50
 470E (ER32) / BT30
 470E (ER32) / BT40, BT50
 472E (ER40) / BT30-BT50

Lock nut IK	Lock nut	Y clamping key	Stop screw IK
83 950 ...	62 950 ...	83 357 ...	83 950 ...
054	054	116	
055	055	125	010
055	055	125	010
056	056	132	010
056	056	132	010
057	057	140	011

OZ-Collet chuck

- ▲ Clamping nut with ball bearings
- ▲ also available with Balluff chip **on request**

AD
G 2,5 n_{max} 18000AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	BT 30	2 - 16	60	43	24 - 104	415E / 421E		
	BT 30	2 - 25	80	60	24 - 176	459E / 462E		
	BT 40	2 - 16	70	43	80 - 90	415E / 421E		
	BT 40	2 - 25	70	60	90 - 100	459E / 462E		
	BT 50	2 - 25	90	60	90 - 100	459E / 462E		
	BT 50	4 - 32	100	72	110 - 120	460E / 467E		
long	BT 40	2 - 16	120	43	80 - 90	415E / 421E		
	BT 40	2 - 25	120	60	90 - 100	459E / 462E		
	BT 50	2 - 25	120	60	90 - 100	459E / 462E		
	BT 50	4 - 32	120	72	110 - 120	460E / 467E		

82 512 ...

82 512 ...

02500

03500

116

125

32500

33200

416

425

72500

73200



Lock nut

Hook clamping
key

Stop screw IK

62 950 ...

83 354 ...

83 950 ...

Spare parts for collet

415E / 421E	M33x1,5	050	116	M10x50	010
459E / 462E	M48x2	051	125	M10x50	010
460E / 467E	M60x2,5	052	132	M12x50	011

Accessories



OZ Collet

→ 268



Pull studs

→ 111-112



Others

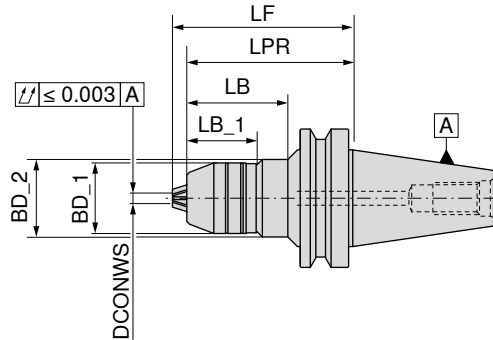
→ 273

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
84 509 ...



AD
G 6,3 n_{max} 10000
84 510 ...



AD/B
G 6,3 n_{max} 10000
84 511 ...

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	89,0
BT 40	0,5 - 13	48,5		50,9		90	99,0
BT 40	2,5 - 16	51,0		50,9		80	90,5
BT 50	2,5 - 16	51,0	56	50,9	73	120	130,5

413

413

413

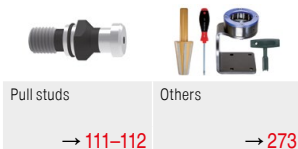
416

416

516

516

Accessories



Pull studs

Others

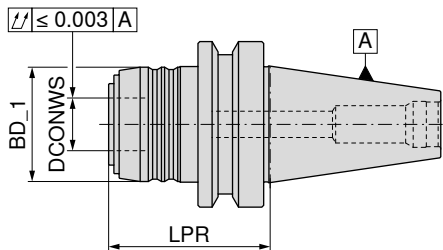
→ 111–112

→ 273

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
BT 40	M6 - M20	2	82	60	32	1,0 / 0,2
BT 50	M3 - M12	1	72	43	20	1,0 / 0,2
BT 50	M6 - M20	2	93	60	32	1,0 / 0,2

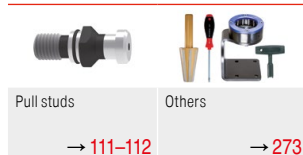
012

020

112

120

Accessories



Pull studs

Others

→ 111-112

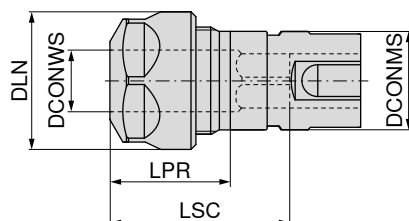
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



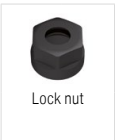
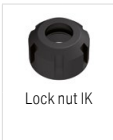
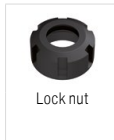
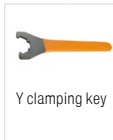
83 608 ...

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

012

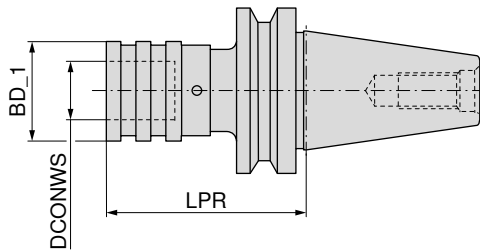
020

Spare parts for synchronous tapping chucks

				
	62 950 ...	83 950 ...	62 950 ...	83 357 ...
Spare parts for Article no.				
83 608 012	M22x1,5 - SW25	M22x1,5		
83 608 020		M32x1,5	M32x1,5	
	044	054	055	116
		055		125

Quick change tap chuck with length compensation

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



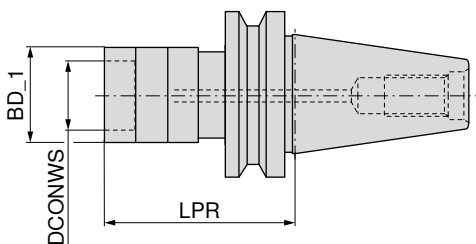
A

83 528 ...

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

Quick change tap chuck without length compensation

- ▲ Without length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip **on request**



AD

83 525 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	
BT 40	M3 - M12	01	67	33	19	412
BT 40	M6 - M20	02	90	50	31	420
BT 50	M3 - M12	01	78	33	19	512
BT 50	M6 - M20	02	101	50	31	520

Accessories

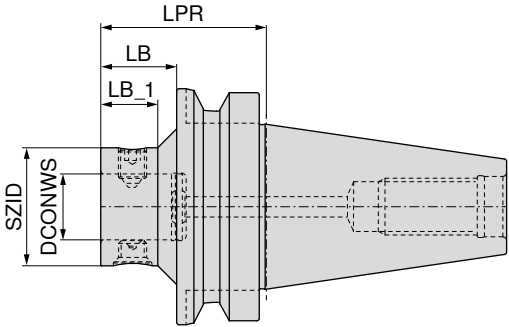
		
Collet	Pull studs	Others
→ 277-281	→ 111-112	→ 273

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



NEW



AD

NEW



AD/B

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	84 202 ...	84 212 ...
BT 40	A55 00120	ABS 25	13	60	33	25	04090	
BT 40	A55 00130	ABS 32	16	60	33		04089	
BT 40	A55 00140	ABS 40	20	60	33		04088	
BT 40	A55 00150	ABS 50	28	60	33		04097	
BT 40	A55 55150	ABS 50	28	60	33			04097
BT 40	A55 00160	ABS 63	34	70			04096	
BT 40	A55 55160	ABS 63	34	70				04096
BT 50	A55 00330	ABS 32	16	70	32	24	05089	
BT 50	A55 00340	ABS 40	20	70	32	24	05088	
BT 50	A55 00350	ABS 50	28	70	32	24	05097	
BT 50	A55 55350	ABS 50	28	70	32	24		05097
BT 50	A55 55360	ABS 63	34	80	42	37		05096
BT 50	A55 00360	ABS 63	34	80	42	37	05096	
BT 50	A55 55370	ABS 80	46	100	62			05092
BT 50	A55 00370	ABS 80	46	100	62		05092	
BT 50	A55 55380	ABS 100	56	110				05091
BT 50	A55 00380	ABS 100	56	110			05091	

Conversion kit – Cooling agent supply



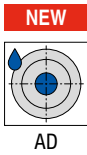
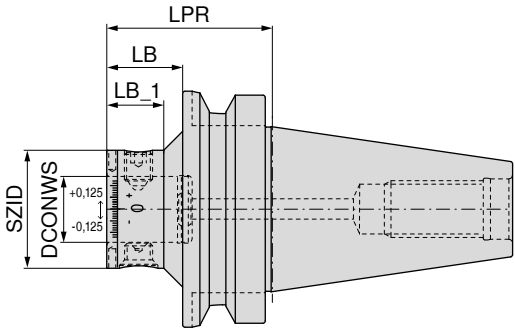
		84 950 ...
for		
4 mm	SK 40	23200
6 mm	SK 50	23400

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



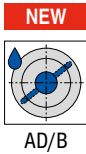
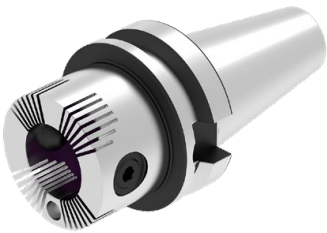
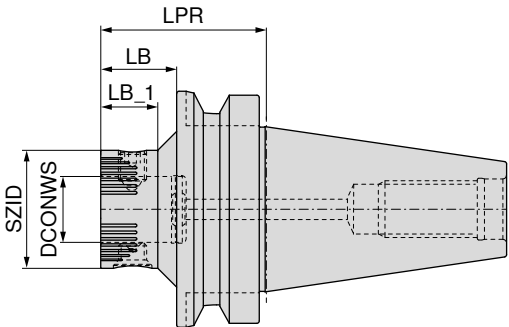
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	84 205 ...	84 205 ...
BT 40	A55 56150	ABS 50	28	60	33			04097
BT 40	A55 56160	ABS 63	34	70			04096	
BT 50	A55 56350	ABS 50	28	70	32	24		05097
BT 50	A55 56360	ABS 63	34	80	42	37	05096	

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	DCONWS mm	LPR mm	LB mm	LB_1 mm	
BT 40	A55 02150	ABS 50	28	60	33		04097
BT 40	A55 02160	ABS 63	34	70			04096
BT 50	A55 02350	ABS 50	28	70	32	24	05097
BT 50	A55 02360	ABS 63	34	80	42	37	05096

Spare parts

SZID			
ABS 50	20300	99800	20400
ABS 63	25500	99400	27300

		
Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...

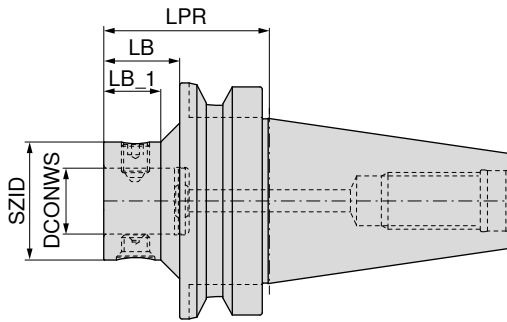
Accessories

		
Pull studs	Extension	Others
→ 111-112	→ 193	→ 273

Adapter with ABS Connection – BT-FC

▲ with face contact

▲ also available with Balluff chip on request



AD

84 214 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	
BT-FC 40	A55 57121	ABS 25	13	60	33	25	04090
BT-FC 40	A55 57131	ABS 32	16	60	33		04089
BT-FC 40	A55 57141	ABS 40	20	60	33		04088
BT-FC 40	A55 57151	ABS 50	28	60	33		04097
BT-FC 40	A55 57161	ABS 63	34	70			04096
BT-FC 50	A55 57331	ABS 32	16	70		24	05089
BT-FC 50	A55 57341	ABS 40	20	70		24	05088
BT-FC 50	A55 57351	ABS 50	28	70		24	05097
BT-FC 50	A55 57361	ABS 63	34	80		37	05096
BT-FC 50	A55 57371	ABS 80	46	100	60		05092
BT-FC 50	A55 57381	ABS 100	56	110			05091

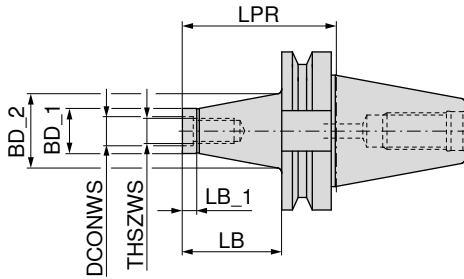
Spare parts

SZID	62 950 ...	84 950 ...	84 950 ...	84 950 ...
ABS 25		26800	99700	27000
ABS 32	13989		99600	27100
ABS 40		26900	99500	27200
ABS 50		20300	99800	20400
ABS 63		25500	99400	27300
ABS 80		25600	99300	25100
ABS 100		25700	99200	25200

Clamping screw	Clamping screw	Set	Taper screw
62 950 ...	84 950 ...	84 950 ...	84 950 ...

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 mm	LB mm	BD_1 mm	BD_2 mm	LB_1 mm	LPR mm
BT 40	M8	8,5	25	13,8	15	12	52
BT 40	M8	8,5	50	13,8	23	12	77
BT 40	M8	8,5	75	13,8	25	12	102
BT 40	M10	10,5	25	18,0	23	12	52
BT 40	M10	10,5	50	18,0	25	12	77
BT 40	M10	10,5	75	18,0	30	12	102
BT 40	M12	12,5	25	21,0	24	12	52
BT 40	M12	12,5	50	21,0	30	12	77
BT 40	M12	12,5	75	21,0	35	12	102
BT 40	M12	12,5	100	21,0	38	12	127
BT 40	M16	17,0	25	29,0	29	12	52
BT 40	M16	17,0	50	29,0	34	12	77
BT 40	M16	17,0	75	29,0	35	12	102
BT 40	M16	17,0	100	29,0	40	12	127

081

082

083

101

102

103

121

122

123

124

161

162

163

164

Accessories

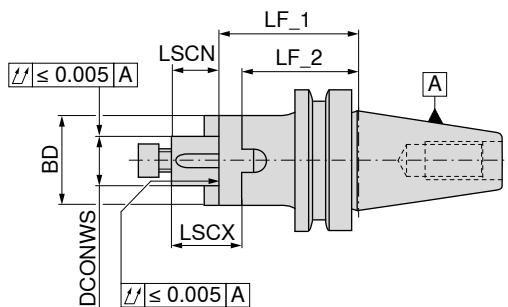
Extension-Reduction set → 245	Pull studs → 111-112	Others → 273

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 retaining screw, driving ring and dowel spring



A
G 2,5 n_{max} 18000

82 516 ...



A
G 6,3 n_{max} 8000

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		01600
	BT 30	22	47	40	31	19	35		02200
	BT 30	27	49	46	33	21	37		02700
	BT 40	16	55	32	27	17	45		
	BT 40	22	55	40	31	19	43		116
	BT 40	27	55	48	33	21	43		122
	BT 40	32	60	58	38	24	46		127
	BT 40	40	60	70	41	27	46		132
									140 ¹⁾
	BT 50	16	70	32	27	17	60		
	BT 50	22	70	40	31	19	58		216
	BT 50	27	70	48	33	21	58		222
	BT 50	32	70	58	38	24	56		227
	BT 50	40	70	70	41	27	56		232
									240 ¹⁾
	BT 30	16	80	32	27	17	70		91600
long	BT 30	22	80	40	31	19	68		92200
	BT 30	27	90	48	33	21	78		92700
	BT 40	16	100	32	27	17	90		31600
	BT 40	22	100	40	31	19	88		32200
	BT 40	27	100	48	33	21	88		32700
	BT 40	32	100	58	38	24	86		33200
	BT 40	40	100	70	41	27	86		34000 ¹⁾

1) With cross screw

				
Parallel key	Drive ring	Cross nut key	Retaining screw	clamping screw
83 950 ...	83 370 ...	83 368 ...	83 367 ...	83 950 ...
284	116	116	016	113
285	122	122	022	124
286	127	127	027	125
287	132	132	032	126
288	140	140	040	112

Spare parts

DCONWS

16	284	116	116	016	113
22	285	122	122	022	124
27	286	127	127	027	125
32	287	132	132	032	126
40	288	140	140	040	112

Accessories

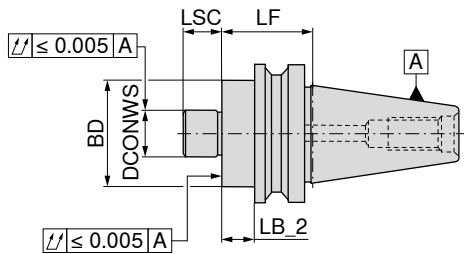
		
Pull studs	Milling Adapter Rings	Others
→ 111-112	→ 253	→ 273

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 retaining screw



A
G 2,5 n_{max} 18000

82 514 ...



AD
G 6,3 n_{max} 8000

82 514 ...



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

82 514 ...

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm			
short	BT 30	16	18	40	38	17		01600	
	BT 30	22	18	40	48	19		02200	
	BT 30	27	18	50	58	21		02700	
	BT 30	32	28	50	78	24		03200	
	BT 40	16	25	52	38	17			116
	BT 40	22	25	52	48	19			122
	BT 40	27	25	52	58	21			127
	BT 40	32	23	50	78	24			132
	BT 40	40	23	50	88	27			140 ¹⁾
	BT 50	16	25	63	38	17			
	BT 50	22	25	63	48	19		316	
	BT 50	27	25	63	58	21		322	
	BT 50	32	22	60	78	24		327	
	BT 50	32	22	60	78	24		332	
	BT 50	40	22	60	88	27		340 ¹⁾	
long	BT 40	16	73	100	38	17			416
	BT 40	22	73	100	48	19			422
	BT 40	27	73	100	58	21			427
	BT 40	32	73	100	78	24			432
	BT 40	40	73	100	88	27			440 ¹⁾
	BT 50	16	62	100	38	17			
	BT 50	22	62	100	48	19		616	
	BT 50	27	62	100	58	21		622	
	BT 50	32	62	100	78	24		627	
	BT 50	40	62	100	88	27		632 ¹⁾	
medium length	BT 40	16	103	130	38	17			816
	BT 40	22	103	130	48	19			822
	BT 40	27	103	130	58	21			827
	BT 40	32	103	130	78	24			832
	BT 40	40	103	130	88	27			840 ¹⁾
	BT 50	16	92	130	38	17			
	BT 50	22	92	130	48	19		916	
	BT 50	27	92	130	58	21		922	
	BT 50	32	92	130	78	24		927	
	BT 50	40	92	130	88	27		932 ¹⁾	
extra-long	BT 40	16	133	160	38	17			516
	BT 40	22	133	160	48	19			522
	BT 40	27	133	160	58	21			527
	BT 40	32	133	160	78	24			532
	BT 40	40	133	160	88	27			540 ¹⁾
	BT 50	16	122	160	38	17			
	BT 50	22	122	160	48	19		716	
	BT 50	27	122	160	58	21		722	
	BT 50	32	122	160	78	24		727	
	BT 50	40	122	160	88	27		732 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

						
	83 368 ...			83 367 ...		83 950 ...
Spare parts						
DCONWS						
16	116	M8		016	M8x25	113
22	122	M10		022	M10x25	124
27	127	M12		027	M12x30	125
32	132	M16		032	M16x35	126
40	140	M20		040	M20x40 - SW17	112
						
				83 950 ...		83 950 ...
Spare parts						
DCONWS						
16		M3x8		296	8x9x17,5	120
22		M4x12		297	10x11x20,5	121
27		M5x12		136	12x13x24,3	122
32		M5x20		137	14x21x21,2	123
40		M6x16		138	15,9x16,3x19,5	295

Accessories

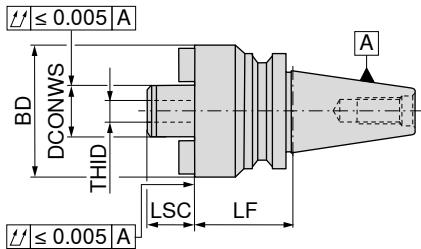
		
Pull studs	Extensions	Others
→ 111-112	→ 252	→ 273

Large diameter facemill adapter

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

Scope of supply:

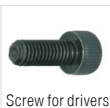
Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws



A

82 519 ...

Adapter	DCONWS mm	LF mm	BD mm	LSC mm	THID	
BT 50	40	70	89	30	M20	240
BT 50	60	80	129	40	M30	260



Screw for drivers



Driver



Socket head
screw



clamping screw

83 950 ...

83 950 ...

70 950 ...

83 950 ...

Spare parts

DCONWS

40	M6x16	138	15,9x16,3x19,5	295		M12x50	140
60			25,4x16,3x26,5	298	M12x30 - SW10	M16x45	160

Accessories



Pull studs

→ 111-112

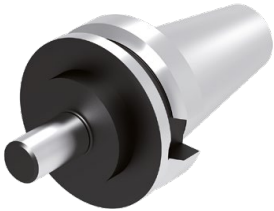
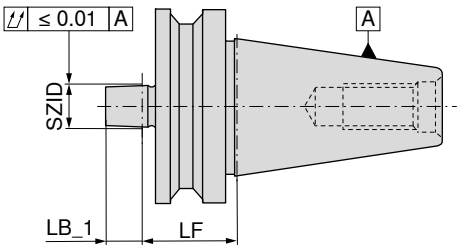


Others

→ 273

Drill chuck adapter

▲ also available with Balluff chip on request



A
G 6,3 n_{max} 8000

82 513 ...

Adapter	SZID	LF mm	LB_1 mm	
BT 30	B12	25	18,5	01200
BT 30	B16	25	24,0	01600
BT 40	B12	40	18,5	112
BT 40	B16	40	24,0	116
BT 40	B18	32	32,0	11800
BT 50	B16	50	24,0	216
BT 50	B18	50	32,0	218

Spare parts

SZID				
B12	0 - 8 mm	012	0 - 10 mm	112
B16	1 - 13 mm	016	3 - 16 mm	116
B18			3 - 16 mm	018

Accessories




Pull studs
→ 111-112

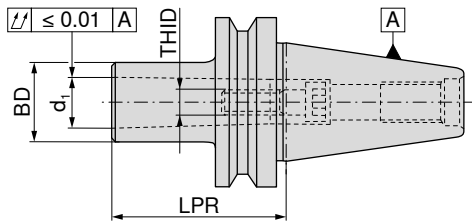
Others
→ 273

Milling sleeve adapters DIN 6364 for DIN 228-2C Morse taper shanks with thread

▲ also available with Balluff chip on request

Scope of supply:

Holder with retaining screw

AD
G 6,3 n_{max} 8000

82 527 ...

	Adapter	d ₁	LPR mm	BD mm	THID	
short	BT 40	MK1	50	25	M6	01000
	BT 40	MK2	55	32	M10	02000
	BT 40	MK3	70	40	M12	030
	BT 40	MK4	95	48	M16	040
	BT 50	MK1	45	25	M6	210
	BT 50	MK2	60	32	M10	220
	BT 50	MK3	65	40	M12	230
	BT 50	MK4	95	48	M16	240
	BT 50	MK5	118	63	M20	250

Morse taper
clamping screw

83 950 ...



Counterscrew

83 950 ...

Hollow key with
nose

83 359 ...



Fixing ring

83 950 ...

Spare parts
for Article no.

82 527 01000	M6x30	260	M5x6	030	16 x 32	013	M16x8x6,5	265
82 527 02000	M10x30	261	M5x6	030	16 x 32	013	M16x8x10,5	267
82 527 030	M12x35	018	M5x6	030	17 x 117	017	M20x1,5x10x13	269
82 527 040	M16x40	019	M5x6	030	23 x 145	023	M26x1,5x17	270
82 527 210	M6x30	260	M5x8	031	20 x 135	020	M24x10x6,5	266
82 527 220	M10x30	017	M5x8	031	20 x 135	020	M24x10x10,5	268
82 527 230	M12x35	018	M5x8	031	17 x 117	017	M20x1,5x10x13	269
82 527 240	M16x40	019	M5x8	031	23 x 145	023	M26x1,5x17	270
82 527 250	M20x50	262	M5x8	031	33 x 175	033	M36x1,5x21	271

Accessories



Pull studs

→ 111–112

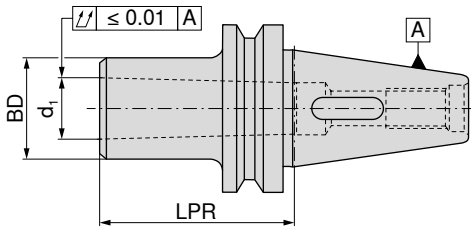


Others

→ 273

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 mm	BD mm	
BT 30	MK1	50	25	01000
BT 30	MK2	60	32	02000
BT 30	MK3	77	40	03000
BT 40	MK1	50	25	110
BT 40	MK2	50	32	120
BT 40	MK3	70	40	130
BT 40	MK4	95	48	140
BT 50	MK1	45	25	210
BT 50	MK2	60	32	220
BT 50	MK3	65	40	230
BT 50	MK4	95	48	240
BT 50	MK5	105	63	250

Accessories

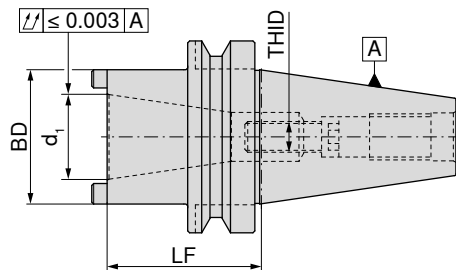
		
Morse taper adapter sleeve	Pull studs	Others
→ 230	→ 111–112	→ 273

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	10600
BT 40	SK 40	100	63	M16	11000
BT 50	SK 40	80	70	M16	250

Spare parts for Article no.

82 518 10600					
82 518 11000					
82 518 250					

				
Clamping screw SK	Morse taper clamping screw	Counterscrew	Hollow key with nose	Fixing ring
83 950 ...	83 950 ...	83 950 ...	83 359 ...	83 950 ...
	18400	030 030	017 023	18500 270

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
	Ø 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

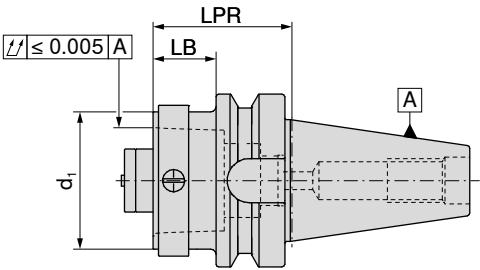
	
Pull studs	Others
→ 111–112	→ 273

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



84 016 ...

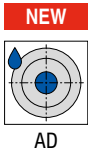
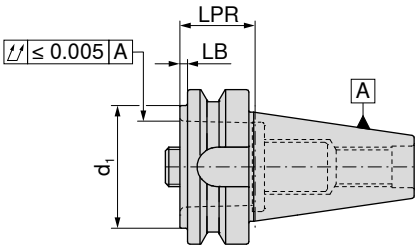
Adapter	d ₁	LB mm	LPR mm	
BT 40	HSK-A 32	13	40	04060
BT 40	HSK-A 40	13	40	04059
BT 40	HSK-A 50	23	50	04058
BT 40	HSK-A 63	43	70	04057
BT 50	HSK-A 32	12	50	05060
BT 50	HSK-A 40	12	50	05059
BT 50	HSK-A 50	22	60	05058
BT 50	HSK-A 63	22	60	05057
BT 50	HSK-A 100	52	90	05055

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	
BT 40	PSC 32	3	30	04087
BT 40	PSC 40	3	30	04095
BT 40	PSC 50	3	30	04094
BT 40	PSC 63	58	85	04093
BT 50	PSC 32	2	40	05087
BT 50	PSC 40	2	40	05095
BT 50	PSC 50	2	40	05094
BT 50	PSC 63	2	40	05093
BT 50	PSC 80	32	70	05086



Threaded ring

84 950 ...



tightening screw

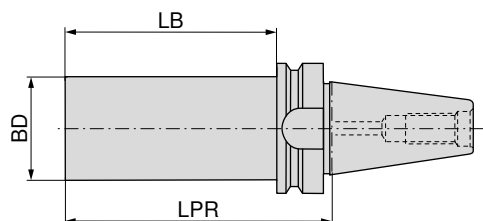
84 950 ...

Spare parts DCONWS

22	127	SW8	122
28	128	SW8	123
35	129	SW10	124
44	130	SW14	126
55	130	SW14	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

82 523 ...



AD/B

82 523 ...

050

040

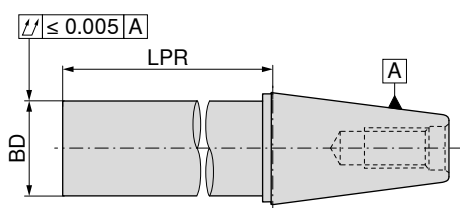
Adapter	BD mm	LPR mm	LB mm
BT 40	63,0	250	223
BT 50	63,5	300	262

Test bar

- ▲ Without clamping slots
- ▲ MAS BT 40 special pull stud with LF = 32 mm

Scope of supply:

in wooden box



A

82 456 ...

040

050

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

Accessories



Pull studs

→ 58, 111–112



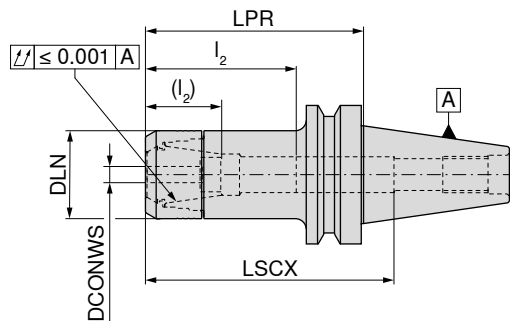
Others

→ 273

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** backstopAD
G 2,5 $n_{\max}$ 25000

84 525 ...

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



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 Article no.

84 525 002	011	001	M11x1 - SW6	341	M11x1 - SW6	337
84 525 012	013	003	M18x1,5 - SW6	432	M18x1,5 - SW6	431
84 525 022	015	005	M22x1,5 - SW6	402	M22x1,5 - SW6	401
84 525 102	011	001	M11x1 - SW6	341	M11x1 - SW6	337
84 525 112	013	003	M18x1,5 - SW6	432	M18x1,5 - SW6	431
84 525 122	015	005	M22x1,5 - SW6	402	M22x1,5 - SW6	401

Accessories

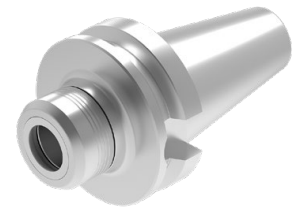
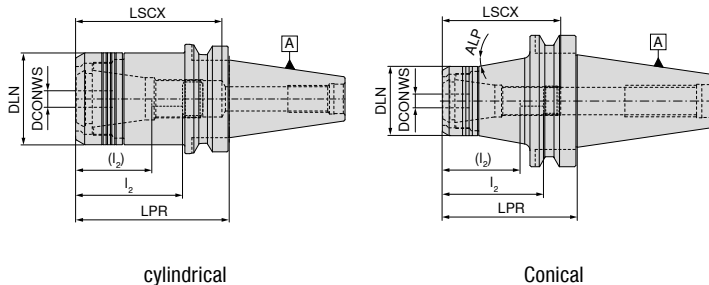
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256-266	→ 269	→ 275	→ 275	→ 111-112	→ 273

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



NEW



AD

G 6,3 $n_{\max}$ 18000

cylindrical

84 400 ...

NEW



AD

G 6,3 $n_{\max}$ 18000

conical

84 400 ...

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)

12064

22064

12063

22063



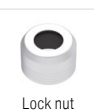
LSCX = Clamping depth without backstop screw

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

Spare parts

DCONWS

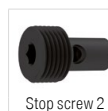
2 - 20



Lock nut

84 950 ...

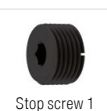
30100



Stop screw 2

83 950 ...

402



Stop screw 1

83 950 ...

401

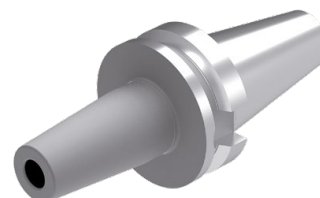
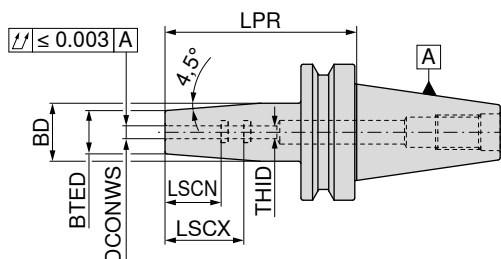
Accessories

ER collet	Roll key	Roll key device	Pull studs	Others
→ 256–266	→ 275	→ 275	→ 111–112	→ 273

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**

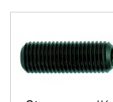
TG

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

84 325 ...

84 325 ...

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



Stop screw IK



Stop screw IK

83 950 ...

83 950 ...

Spare parts
DCONWS

3 - 5			
6	M6x14 - SW2	417	
8			M5x12,5 - SW2,5 418
10			M6x12,5 - SW3 419
12			M8x1x13,5 - SW3 420
16			M10x1x13,5 - SW5 421
20 - 25			M12x1x13,5 - SW5 422
			M16x1x13,5 - SW8 424

Accessories

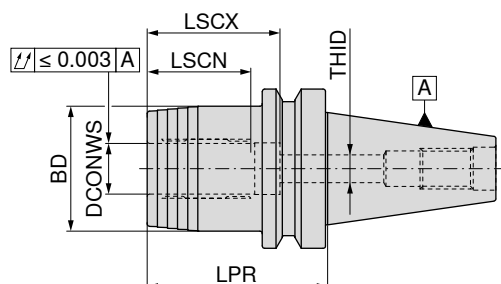
Shrink fit extension	Pull studs	Others
→ 235	→ 111-112	→ 273

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 ...

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
BT-FC 40	20	72,5	49	51	40	M16x1x13,5

120



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

**Spare parts
for Article no.**
83 527 120

SW5

050

M10x1x10

158

M8x1x13,5 - SW3

420

Accessories



Reduction sleeve

→ **271**



Pull studs

→ **111–112**



Others

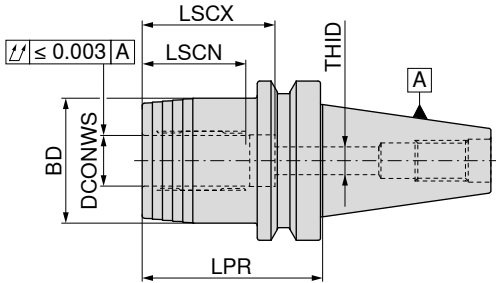
→ **273**

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

84 518 ...

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

120

332



Pressure screw



Stop screw IK

83 950 ...

83 950 ...

Spare parts

DCONWS

20 - 32

M10x1x12

440

M16x1x13,5 - SW8

424

Accessories



Reduction sleeve



Pull studs



Others

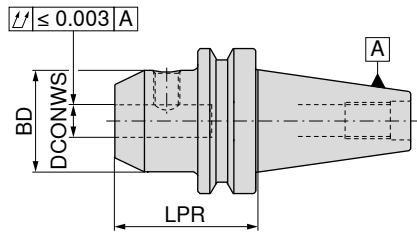
→ 271

→ 111-112

→ 273

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}	LPR	BD	
		mm	mm	mm	
short	BT-FC 30	6	50	25	006
	BT-FC 30	8	50	28	008
	BT-FC 30	10	50	35	010
	BT-FC 30	12	50	42	012
	BT-FC 30	16	63	48	016
	BT-FC 30	20	63	52	020
	BT-FC 40	6	50	25	106
	BT-FC 40	8	50	28	108
	BT-FC 40	10	63	35	110
	BT-FC 40	12	63	42	112
	BT-FC 40	16	63	48	116
	BT-FC 40	20	63	52	120
	BT-FC 40	25	90	65	125
	BT-FC 40	32	100	72	132
	BT-FC 50	6	63	25	306
	BT-FC 50	8	63	28	308
	BT-FC 50	10	63	35	310
	BT-FC 50	12	80	42	312
	BT-FC 50	16	80	48	316
	BT-FC 50	20	80	52	320
	BT-FC 50	25	100	65	325
	BT-FC 50	32	105	72	332



Grubscrew

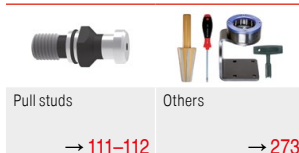
62 950 ...

Spare parts

DCONWS_{H4}

DCONWS _{H4}		
6	M6x10	006
8	M8x10	008
10	M10x12	010
12	M12x16	012
16	M14x16	016
20	M16x16	020
25	M18x2x20	025
32	M20x2x20	032

Accessories



Pull studs

Others

→ 111–112

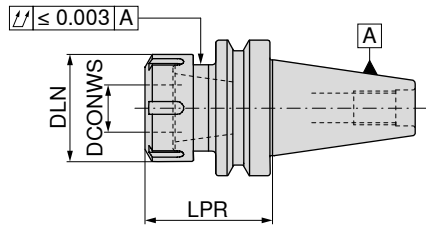
→ 273

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)	010
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	016
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	020
	BT-FC 40	1 - 10	63	28	56	426E (ER16)	110
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	116
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	120
	BT-FC 50	1 - 16	70	42	104	430E (ER25)	316
	BT-FC 50	2 - 20	70	50	136	470E (ER32)	320
long	BT-FC 50	1 - 10	100	28	56	426E (ER16)	310



Lock nut

62 950 ...



Lock nut

62 950 ...



Y clamping key

83 357 ...



Stop screw IK

81 950 ...

Spare parts
for collet

426E (ER16) / BT30-BT50	M22x1,5 - SW25	044			M12x15	054
430E (ER25) / BT30-BT50			M32x1,5	055	M16x15	055
470E (ER32) / BT30-BT50			M40x1,5	056	M16x15	055

Accessories



ER collet

→ 256–266



Pull studs

→ 111–112

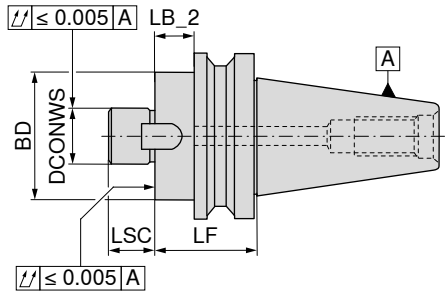


Others

→ 273

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	
short	BT-FC 30	16	18	39,0	40	17	016
	BT-FC 30	22	18	39,0	50	19	022
	BT-FC 30	27	18	39,0	60	21	027
	BT-FC 30	32	28	49,0	80	24	032
	BT-FC 40	16	8	34,0	40	17	116
	BT-FC 40	22	8	34,0	50	19	122
	BT-FC 40	27	8	34,0	60	21	127
	BT-FC 40	32	23	49,0	80	24	132
	BT-FC 40	40	23	49,0	89	27	140
	BT-FC 50	22	12	48,5	50	19	322
	BT-FC 50	27	12	48,5	60	21	327
	BT-FC 50	32	12	48,5	80	24	332
	BT-FC 50	40	17	53,5	89	27	340



Screw for drivers



Driver



clamping screw

84 950 ...

84 950 ...

83 950 ...

Spare parts for Article no.

84 562 016	M3x12	162	8x9x11	157	M8x25	113
84 562 022	M4x10	163	10x11,2x13	158	M10x25	124
84 562 027	M4x16	164	12x12,6x15	159	M12x30	125
84 562 032	M5x16	165	14x14x22,5	160	M16x35	126
84 562 116	M3x12	162	8x9x11	157	M8x25	113
84 562 122	M4x10	163	10x11,2x13	158	M10x25	124
84 562 127	M4x16	164	12x12,6x15	159	M12x30	125
84 562 132	M5x16	165	14x14x22,5	160	M16x35	126
84 562 140	M5x16	166	16x16x23	161	M20x40 - SW17	112
84 562 322	M4x10	163	12x12,6x15	159	M10x25	124
84 562 327	M4x16	164	12x12,6x15	159	M12x30	125
84 562 332	M5x16	165	14x14x22,5	160	M16x35	126
84 562 340	M5x16	166	16x16x23	161	M20x40 - SW17	112

Accessories



Pull studs



Others

→ 111–112

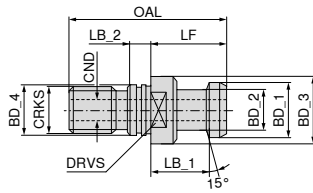
→ 273

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	mm	mm	Nm
BT 40	19	14	23	17	M16	54	29	23	5	5	19	90

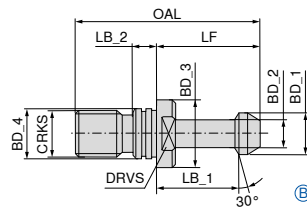
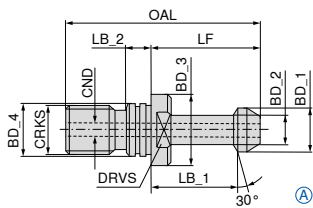
040

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	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



O-Ring

83 476 ...

Spare parts

BD_4

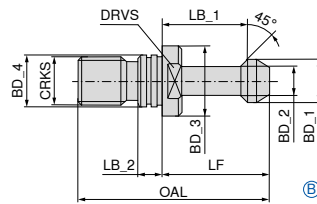
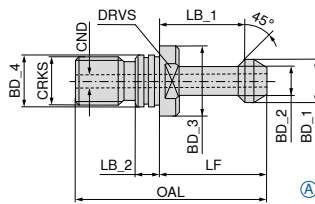
17	BT / SK 40	040
25	BT / SK 50	050

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:

including O-Ring



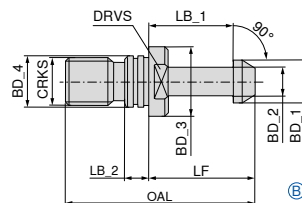
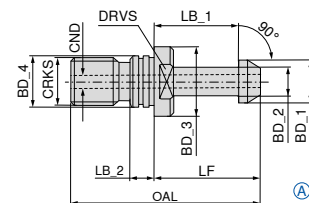
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 530 ...	82 534 ...
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	60	A		030
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	90	A		040
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	145	A		050
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	60	B	030	
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	90	B	040	
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	145	B	050	

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:

including O-Ring

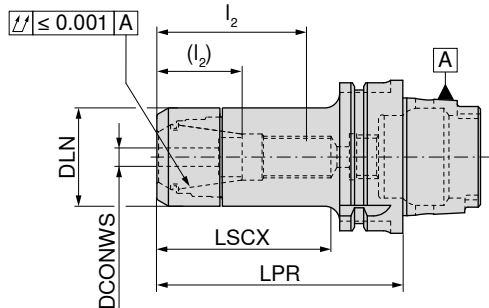


Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 536 ...	82 537 ...
BT 40	15	10	23	17	M16	60	35	28	5,5	4	19	90	A		040
BT 50	23	17	38	25	M24	85	45	35	8,0	6	30	145	A		050
BT 40	15	10	23	17	M16	60	35	28	5,5		19	90	B	040	
BT 50	23	17	38	25	M24	85	45	35	8,0		30	145	B	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** backstopG 2,5 $n_{\max}$ 25000

84 722 ...

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

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

→ Transmittable torque moments, Page 300



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

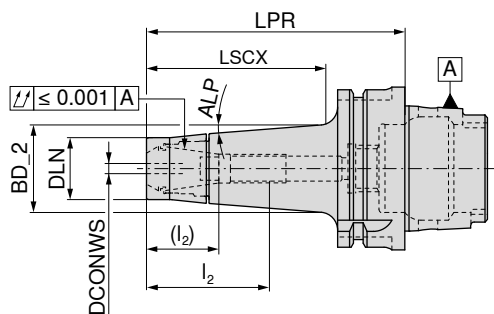
	Lock nut IK	Lock nut	Stop screw 2	Stop screw 1
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet				
426E (ER16)	011	001	M11x1 - SW6	341
430E (ER25)	013	003	M18x1,5 - SW6	432
470E (ER32)	015	005	M22x1,5 - SW6	402
472E (ER40)	017	007	M28x1,5 - SW6	400

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



G 2,5 n_{max} 25000

84 721 ...

Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	LSCX mm	l_2 (l_2) mm	ALP	for collet	
HSK-A 40	1 - 10	100	24	30,8	67	26 - 47 (12 - 32)	2,0°	426E (ER16)	310
HSK-A 50	1 - 10	65	24	28,9	44	26 - 32	4,5°	426E (ER16)	710
HSK-A 50	1 - 10	100	24	34,4	77	26 - 47 (12 - 32)	4,5°	426E (ER16)	810
HSK-A 63	1 - 10	100	24	33,8	74	28 - 48 (20 - 35)	4,5°	426E (ER16)	610
HSK-A 63	1 - 10	130	24		77	28 - 48 (20 - 35)		426E (ER16)	61200
HSK-A 63	1 - 10	160	24	36,0	106	28 - 48 (20 - 35)	2,5°	426E (ER16)	611

→ Transmittable torque moments, Page 300



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

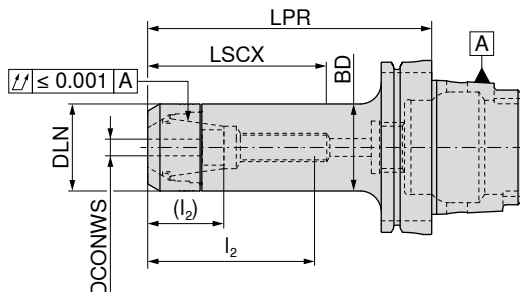
Spare parts for collet
426E (ER16)

Tapered lock nut IK	Tapered lock nut	Stop screw 2	Stop screw 1
84 950 ...	84 950 ...	83 950 ...	83 950 ...
033	031	341	337

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** backstopG 2,5 $n_{\max}$ 25000

84 719 ...

Adapter	DCONWS mm	LPR mm	BD mm	DLN mm	LSCX mm	I ₂ (I ₂) mm	for collet	
HSK-A 50	1 - 7	130	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	407
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)	507
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	607
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)	707
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	608
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)	610
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)	710
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)	810
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)	910

→ Transmittable torque moments, Page 300



LSCX = Clamping depth without back stop screw for shanks
 I₂ = With back stop screw 1, Dimension in brackets (I₂) = 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 ...
Spare parts for collet				
4008E (ER11)		041	M8x1 - SW4	340
426E (ER16)	035	034	M11x1 - SW6	341
			M8x1 - SW4	336
			M11x1 - SW6	337

Accessories

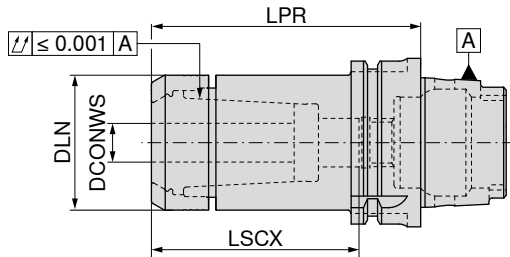
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256–263, 266	→ 269	→ 274	→ 275	→ 275	→ 163	→ 273

OZ Precision Collet Chuck – Centro-P

- ▲ 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 $n_{\max} 25000$

84 724 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	for collet	
HSK-A 63	2 - 25	85	50	60	462E	626
HSK-A 100	2 - 25	90	50	60	462E	126

→ Transmittable torque moments, Page 300



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



Lock nut IK

84 950 ...

020

Spare parts for collet

462E

Accessories

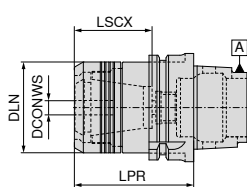
OZ Collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→ 267	→ 267	→ 275	→ 275	→ 163	→ 273

ER precision collet chuck – HDC

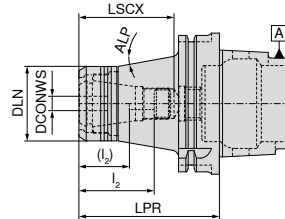
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

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



cylindrical



Conical



G 6,3 n_{max} 18000

cylindrical

84 400 ...



G 6,3 n_{max} 18000

conical

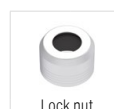
84 400 ...

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



LSCX = Clamping depth without backstop screw

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



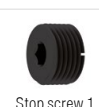
Lock nut

84 950 ...



Stop screw 2

83 950 ...



Stop screw 1

83 950 ...

DCONWS

2 - 20

30100

M22x1,5 - SW6

402

M22x1,5 - SW6

401

Accessories

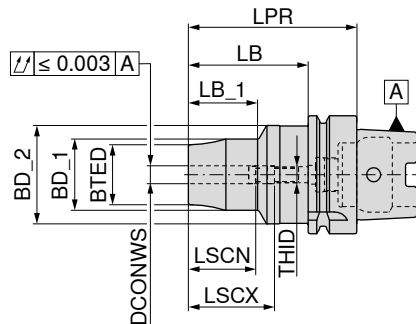
ER collet	Roll key	Roll key device	Others
→ 256-266	→ 275	→ 275	→ 273

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 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB_1 mm	LSCX mm	LSCN mm	LB mm	THID	
short	HSK-A 63	16	95	36	42	52.5	42	49	39	69	M12x1	616
	HSK-A 63	20	100	42	48	52.5	45	51	41	74	M16x1	620
	HSK-A 63	25	120	51	57	53.0	62	57	47	94	M16x1	625
	HSK-A 63	32	125	57	63	53.0	62	61	51	99	M16x1	632

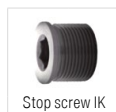
→ Min. clamping depth, Page 300



80 397 ...



83 950 ...



83 950 ...

Spare parts for Article no.

83 706 616	SW5	050	TR10x1,5x14	430	M12x1x18	446
83 706 620	SW5	050	TR10x1,5x14	430	M16x1x18,5	448
83 706 625	SW5	050	TR10x1,5x14	430	M16x1x22	449
83 706 632	SW5	050	TR10x1,5x14	430	M16x1x25	450

Accessories

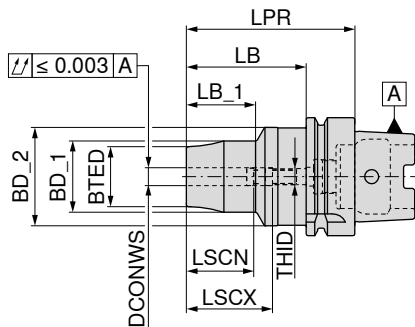
Reduction sleeve	Coolant transfer pipe	Others
→ 271	→ 163	→ 273

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 ...

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB_1	LSCX	LSCN	LB	THID
HSK-A 63	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	20	80	36	49	52,5	36	51	40	54	M8x1

120

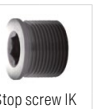
→ Min. clamping depth, Page 300



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

**Spare parts
for Article no.
83 722 120**

SW5

050

M10x1x10

158

M8x1x13,5 - SW3

420

Accessories



Reduction sleeve

→ 271



Coolant transfer pipe

→ 163



Others

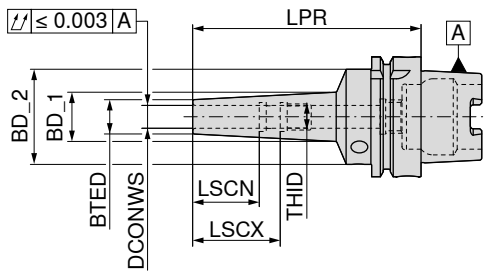
→ 273

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

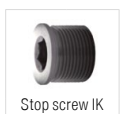
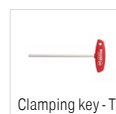


G 2,5 n_{max} 25000

83 727 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	
long	HSK-A 63	3	120	9	16,65	50	28	12	M3	603
	HSK-A 63	4	120	10	17,65	50	28	16	M3	604
	HSK-A 63	5	120	11	18,65	50	28	20	M3	605
	HSK-A 63	6	120	12	19,75	50	37	27	M5	606
	HSK-A 63	8	120	14	21,75	50	37	27	M6	608
	HSK-A 63	10	120	16	23,75	50	41	31	M8x1	610
	HSK-A 63	12	120	18	25,86	50	46	36	M10x1	612
	HSK-A 63	16	120	24	31,50	50	49	39	M12x1	616
	HSK-A 63	20	120	28	35,55	50	51	41	M16x1	620
extra-long	HSK-A 63	6	160	16	33,53	50	37	27	M5	706
	HSK-A 63	8	160	18	34,55	50	37	27	M6	708
	HSK-A 63	10	160	20	36,27	50	41	31	M8x1	710
	HSK-A 63	12	160	22	37,78	50	46	36	M10x1	712
extra long	HSK-A 63	6	200	16	37,83	50	37	27	M5	806
	HSK-A 63	8	200	18	38,85	50	37	27	M6	808
	HSK-A 63	10	200	20	40,57	50	41	31	M8x1	810
	HSK-A 63	12	200	22	42,07	50	46	36	M10x1	812

→ Min. clamping depth, Page 300



Spare parts
DCONWS

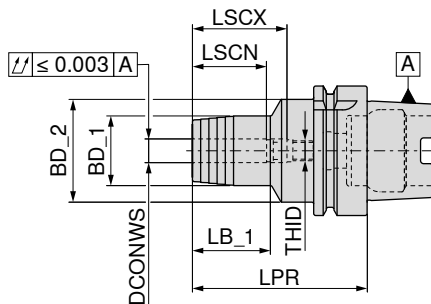
3	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
4	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
5	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
6	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
6	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
8	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
10	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420
12	SW5	050	M10x1x12	159	M10x1x13,5 - SW5	421
16	SW5	050	M10x1x12	159	M12x1x13,5 - SW5	422
20	SW5	050	M10x1x12	159	M16x1x13,5 - SW8	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

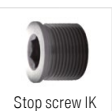
83 726 ...

	Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID	
short	HSK-A 63	6	70	26	49,5	37	27	24	M5	606
	HSK-A 63	8	70	28	49,5	37	27	24	M6	608
	HSK-A 63	10	80	30	49,5	41	31	32	M8x1	610
	HSK-A 63	12	85	32	49,5	46	36	40	M10x1	612
	HSK-A 63	16	90	38	49,5	49	39	46	M12x1	616
	HSK-A 63	20	90	42	49,5	51	41	48	M16x1	620
	HSK-A 63	25	120	57	52,0	57	47	63	M16x1	625
	HSK-A 63	32	125	63	53,0	61	51	61	M16x1	632

→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK

83 950 ...

83 950 ...

Spare parts DCONWS

6	M8x1x10	439	M5x12,5 - SW2,5	418
8	M8x1x10	439	M6x12,5 - SW3	419
10	M10x1x12	440	M8x1x13,5 - SW3	420
12	M10x1x12	440	M10x1x13,5 - SW5	421
16	M10x1x12	440	M12x1x13,5 - SW5	422
20 - 32	M10x1x12	440	M16x1x13,5 - SW5	423

Accessories

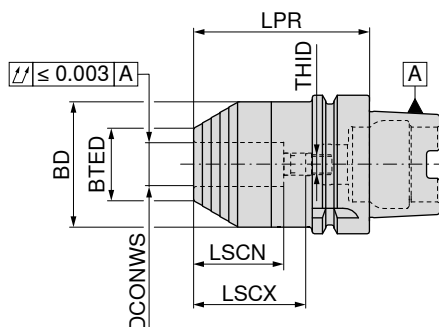
Reduction sleeve	Coolant transfer pipe	Others
→ 271	→ 163	→ 273

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

83 729 ...

620

→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
HSK-A 63	20	80	33	51.5	51	41	M8x1

Spare parts

DCONWS

20



Pressure screw



Stop screw IK

83 950 ...

83 950 ...

M10x12

440

M16x13,5 - SW5

423

Accessories



Reduction sleeve

→ 271



Coolant transfer pipe

→ 163



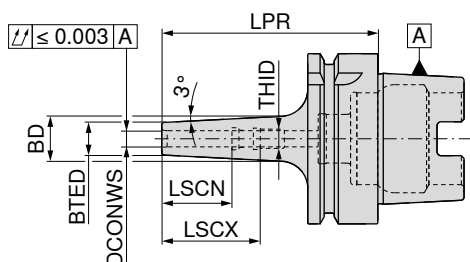
Others

→ 273

Shrink adapter, slim 3°

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

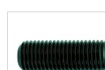
TG

G 2,5 n_{max} 25000

84 324 ...

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

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK

83 950 ...

83 950 ...

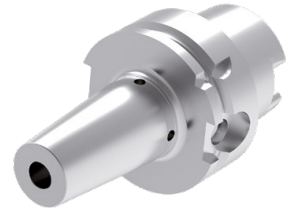
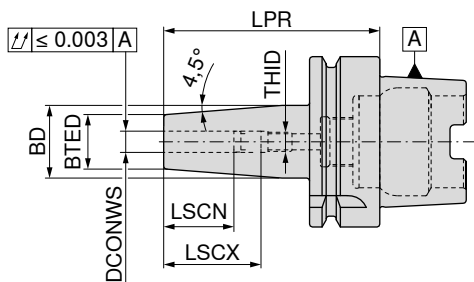
Spare parts
DCONWS

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

G 2,5 n_{max} 25000

84 304 ...

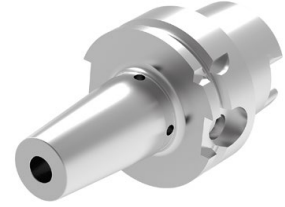
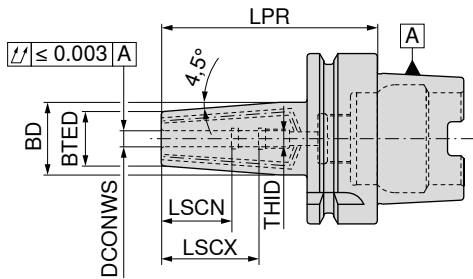
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	HSK-A 63	3	80	10	15	22	12	M6	103
	HSK-A 63	4	80	15	22	26	16	M6	104
	HSK-A 63	5	80	15	22	30	20	M6	105
	HSK-A 63	6	80	21	27	36	26	M5	106
	HSK-A 63	8	80	21	27	36	26	M6	108
	HSK-A 63	10	85	24	32	41	31	M8x1	110
	HSK-A 63	12	90	24	32	47	37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

→ Min. clamping depth, Page 300

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

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK



Sealing screw

83 950 ...

83 950 ...

83 950 ...

Spare parts
DCONWS

3-5	M6x14 - SW2	417			M2x6	512
6			M5x12,5 - SW2,5	418	M2x6	512
8			M6x12,5 - SW3	419	M2x6	512
10			M8x1x13,5 - SW3	420	M2x6	512
12 - 14			M10x1x13,5 - SW5	421	M2x6	512
16 - 18	M12x1 - SW5	510			M2x6	512
20 - 32	M16x1 - SW5	511			M2x6	512

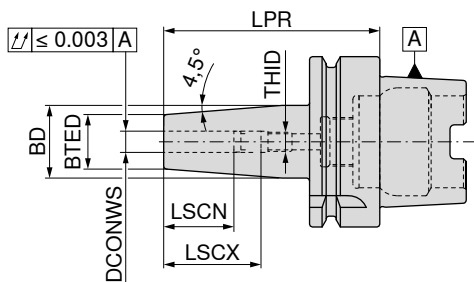
Accessories

Shrink fit extension	Coolant transfer pipe	Others
→ 235	→ 163	→ 273

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	106
	HSK-A 100	8	85	21	27	36	26	M6	108
	HSK-A 100	10	90	24	32	41	31	M8x1	110
	HSK-A 100	12	95	24	32	47	37	M10x1	112
	HSK-A 100	14	95	27	34	47	37	M10x1	114
	HSK-A 100	16	100	27	34	50	40	M12x1	116
	HSK-A 100	18	100	33	42	50	40	M12x1	118
	HSK-A 100	20	105	33	42	52	42	M16x1	120
	HSK-A 100	25	115	44	53	58	48	M16x1	125
	HSK-A 100	32	120	44	53	62	52	M16x1	132
long	HSK-A 100	6	120	21	27	36	26	M5	206
	HSK-A 100	8	120	21	27	36	26	M6	208
	HSK-A 100	10	120	24	32	41	31	M8x1	210
	HSK-A 100	12	120	24	32	47	37	M10x1	212
	HSK-A 100	14	120	27	34	47	37	M10x1	214
	HSK-A 100	16	120	27	34	50	40	M12x1	216
	HSK-A 100	18	120	33	42	50	40	M12x1	218
	HSK-A 100	20	120	33	42	52	42	M16x1	220
	HSK-A 100	25	120	44	53	58	48	M16x1	225
extra-long	HSK-A 100	6	160	21	27	36	26	M5	306
	HSK-A 100	8	160	21	27	36	26	M6	308
	HSK-A 100	10	160	24	32	41	31	M8x1	310
	HSK-A 100	12	160	24	32	47	37	M10x1	312
	HSK-A 100	14	160	27	34	47	37	M10x1	314
	HSK-A 100	16	160	27	34	50	40	M12x1	316
	HSK-A 100	18	160	33	42	50	40	M12x1	318
	HSK-A 100	20	160	33	42	52	42	M16x1	320
	HSK-A 100	25	160	44	53	58	48	M16x1	325
	HSK-A 100	32	160	44	53	62	52	M16x1	332

→ Min. clamping depth, Page 300



Stop screw IK

83 950 ...

Spare parts

DCONWS

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

Accessories



Shrink fit extension

Coolant transfer pipe

Others

→ 235

→ 163

→ 273

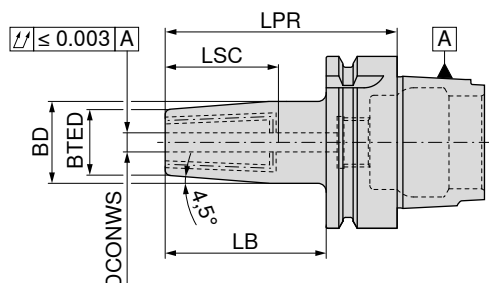
Shrink fit adapters 4.5°

- ▲ 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

84 717 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LB mm	LSC mm	
short	HSK-A 63	6	80	21	26	54	36,5	606
	HSK-A 63	8	80	21	26	54	36,5	608
	HSK-A 63	10	85	24	30	59	41,5	610
	HSK-A 63	12	90	24	30	64	46,5	612
	HSK-A 63	14	90	27	34	64	46,5	614
	HSK-A 63	16	95	27	34	69	49,5	616
	HSK-A 63	18	95	33	41	69	49,5	618
	HSK-A 63	20	100	33	41	74	51,5	620
	HSK-A 63	25	115	44	52	89	57,5	625
	HSK-A 63	32	120	44	52	94	61,5	632
	HSK-A 100	6	85	21	26	56	36,5	106
	HSK-A 100	8	85	21	26	56	36,5	108
	HSK-A 100	10	90	24	30	56	41,5	110
	HSK-A 100	12	95	24	30	66	46,5	112
	HSK-A 100	14	95	27	34	66	46,5	114
	HSK-A 100	16	100	27	34	71	49,5	116
	HSK-A 100	18	100	33	42	71	49,5	118
	HSK-A 100	20	105	33	42	76	51,5	120
	HSK-A 100	25	115	44	53	86	57,5	125
	HSK-A 100	32	120	44	53	91	61,5	132

→ Min. clamping depth, Page 300



Stop screw IK



Sealing screw

62 950 ...

62 950 ...

Spare parts

DCONWS

6	M5x0,8x14	402	M3x6	411
8	M6x1x16	403	M3x6	411
10	M8x1x20	404		
12 - 18	M10x1x20	405		
20 - 32	M12x1x20	406		



Sealing screw for closing of two additional coolant holes.

Accessories

Shrink fit extension	Coolant transfer pipe	Others
→ 235	→ 163	→ 273

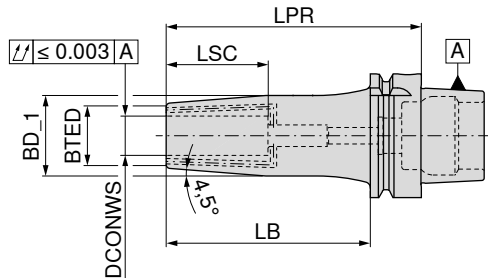
Shrink fit adapters 4.5°

- ▲ 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} 25000G 2,5 n_{max} 25000

84 720 ...

84 723 ...

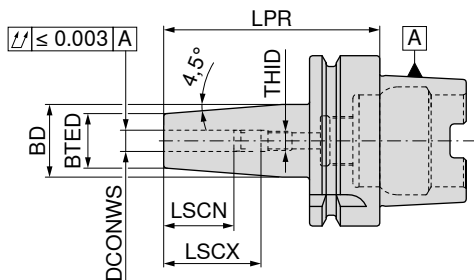
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm		
medium length	HSK-A 63	6	130	21	27	104	36,5		606
	HSK-A 63	8	130	21	27	104	36,5		608
	HSK-A 63	10	130	24	32	104	41,5		610
	HSK-A 63	12	130	24	32	104	46,5		612
	HSK-A 63	14	130	27	34	104	46,5		614
	HSK-A 63	16	130	27	34	104	49,5		616
	HSK-A 63	18	130	33	41	104	49,5		618
	HSK-A 63	20	130	33	41	104	51,5		620
	HSK-A 100	6	130	21	27	101	36,5		106
	HSK-A 100	8	130	21	27	101	36,5		108
	HSK-A 100	10	130	24	32	101	41,5		110
	HSK-A 100	12	130	24	32	101	46,5		112
	HSK-A 100	14	130	27	34	101	46,5		114
	HSK-A 100	16	130	27	34	101	49,5		116
	HSK-A 100	18	130	33	41	101	49,5		118
	HSK-A 100	20	130	33	41	101	51,5		120
extra-long	HSK-A 63	6	160	21	27	134	36,5		606
	HSK-A 63	8	160	21	27	134	36,5		608
	HSK-A 63	10	160	24	32	134	41,5		610
	HSK-A 63	12	160	24	32	134	46,5		612
	HSK-A 63	14	160	27	34	134	46,5		614
	HSK-A 63	16	160	27	34	134	49,5		616
	HSK-A 63	18	160	33	41	134	49,5		618
	HSK-A 63	20	160	33	41	134	51,5		620
	HSK-A 63	25	160	44	52	134	57,5		625
	HSK-A 100	6	160	21	27	131	36,5		106
	HSK-A 100	8	160	21	27	131	36,5		108
	HSK-A 100	10	160	24	32	131	41,5		110
	HSK-A 100	12	160	24	32	131	46,5		112
	HSK-A 100	14	160	27	34	131	46,5		114
	HSK-A 100	16	160	27	34	131	49,5		116
	HSK-A 100	18	160	33	41	131	49,5		118
	HSK-A 100	20	160	33	41	131	51,5		120
	HSK-A 100	25	160	44	53	131	57,5		125
	HSK-A 100	32	160	44	53	131	61,5		132

→ Min. clamping depth, Page 300

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} 18000

82 310 ...

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

→ Min. clamping depth, Page 300



Stop screw IK

82 950 ...

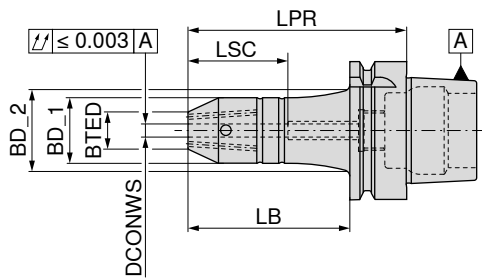
Spare parts

DCONWS

3 - 5	M6x16 - SW3	30100
6	M5x16 - SW2,5	30000
8	M6x16 - SW3	30100
10	M8x1x16 - SW4	30200
12 - 14	M10x1x14 - SW5	30300
16 - 18	M12x1x16 - SW6	30400
20 - 32	M16x1x16 - SW8	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} 18000**84 700 ...**G 2,5 n_{max} 18000**84 701 ...**G 2,5 n_{max} 18000**84 704 ...**G 2,5 n_{max} 18000**84 705 ...**

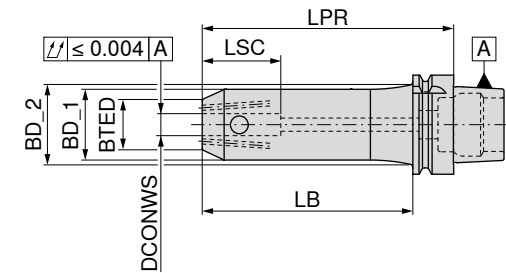
	Adapter	DCONWS _{H5} mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm				
short	HSK-A 63	6	65	30	17	39	34			606	606 ¹⁾	
	HSK-A 63	8	65	32	20	39	34			608	608 ¹⁾	
	HSK-A 63	10	65	35	25	39	39			610	610 ¹⁾	
	HSK-A 63	12	80	42	30	54	44			612	612 ¹⁾	
	HSK-A 63	14	80	45	32	54	44			614	614 ¹⁾	
	HSK-A 63	16	80	48	36	54	47			616	616 ¹⁾	
	HSK-A 63	18	80	48	38	54	47			618	618 ¹⁾	
	HSK-A 63	20	80	52	40	54	49			620	620 ¹⁾	
	HSK-A 63	25	110	63	45	84	54			625	625 ¹⁾	
	HSK-A 63	32	110	72	52	84	58			632	632 ¹⁾	
	HSK-A 100	6	80	30	17	51	34			106		
	HSK-A 100	8	80	32	20	51	34			108		
	HSK-A 100	10	80	35	25	51	39			110		
	HSK-A 100	12	80	42	30	51	44			112		
	HSK-A 100	14	80	45	32	51	44			114		
	HSK-A 100	16	100	48	36	71	47			116		
	HSK-A 100	18	100	48	38	71	47			118		
	HSK-A 100	20	100	52	40	71	49			120		
	HSK-A 100	25	100	65	45	71	54			125		
	HSK-A 100	32	100	72	52	71	58			132		
	HSK-A 100	40	110	80	60	81	68			140		
long	HSK-A 63	6	100	30	17	74	34	36,2			606	606 ¹⁾
	HSK-A 63	8	100	32	20	74	34	38,2			608	608 ¹⁾
	HSK-A 63	10	100	35	25	74	39	41,2			610	610 ¹⁾
	HSK-A 63	12	100	42	30	74	44				612	612 ¹⁾
	HSK-A 63	14	100	45	32	74	44				614	614 ¹⁾
	HSK-A 63	16	100	48	36	74	47				616	616 ¹⁾
	HSK-A 63	18	100	48	38	74	47				618	618 ¹⁾
	HSK-A 63	20	100	52	40	74	49				620	620 ¹⁾

1) without threads for balancing screws

Spare parts and accessories on → **Page 134**

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} 18000 G 2,5 n_{max} 18000

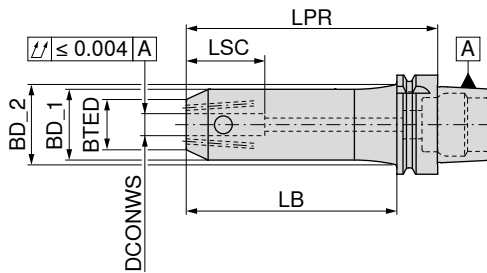
84 706 ...	84 708 ...
606	606
608	608
610	610
612	612
614	614
616	616
618	618
620	620
625	
632	

Adapter	DCONWS mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm
HSK-A 63	6	130	30	17	104	34	36,2
HSK-A 63	8	130	32	20	104	34	38,2
HSK-A 63	10	130	35	25	104	39	41,2
HSK-A 63	12	130	42	30	104	44	48,2
HSK-A 63	14	130	45	32	104	44	50,5
HSK-A 63	16	130	48	36	104	47	50,1
HSK-A 63	18	130	48	38	104	47	50,1
HSK-A 63	20	130	52	40	104	49	
HSK-A 63	25	130	63	45	104	54	
HSK-A 63	32	130	72	52	104	58	

 Spare parts and accessories on → **Page 134**

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} 18000

84 707 ...

	Adapter	DCONWS _{H5} mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	
extra-long	HSK-A 63	6	160	30	17	134	34	36,2	606
	HSK-A 63	8	160	32	20	134	34	38,2	608
	HSK-A 63	10	160	35	25	134	39	41,2	610
	HSK-A 63	12	160	42	30	134	44	48,2	612
	HSK-A 63	14	160	45	32	134	44	50,5	614
	HSK-A 63	16	160	48	36	134	47	50,1	616
	HSK-A 63	18	160	48	38	134	47	50,1	618
	HSK-A 63	20	160	52	40	134	49		620
	HSK-A 63	25	160	63	45	134	54		625
	HSK-A 100	6	160	30	17	131	34	38,2	106
	HSK-A 100	8	160	32	20	131	34	40,2	108
	HSK-A 100	10	160	35	25	131	39	43,2	110
	HSK-A 100	12	160	42	30	131	44	50,2	112
	HSK-A 100	14	160	45	32	131	44	53,2	114
	HSK-A 100	16	160	48	36	131	47	56,2	116
	HSK-A 100	18	160	48	38	131	47	56,2	118
	HSK-A 100	20	160	52	40	131	49	60,2	120
	HSK-A 100	25	160	65	45	131	54	73,2	125
	HSK-A 100	32	160	72	52	134	58	79,5	132



Grubscrew



Sealing screw

62 950 ...

62 950 ...

Spare parts

DCONWS_{H5}

DCONWS _{H5}				
6	M6x10	422	M3x6	411
8	M8x10	423	M3x6	411
10	M10x12	424	M3x6	411
12 - 14	M12x16	425	M3x6	411
16 - 18	M14x16	426	M3x6	411
20	M16x16	427	M3x6	411
25	M18x2x20	428	M4x8	412
32	M20x2x20	429	M4x8	412



Sealing screw for closing of two additional coolant holes.

Accessories



Coolant transfer pipe



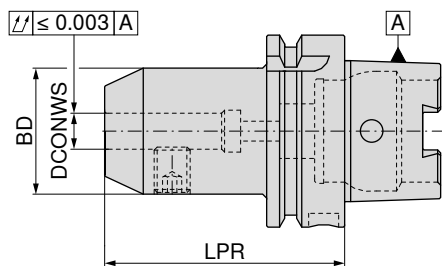
Others

→ 163

→ 273

Sidelock holder (Weldon)

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



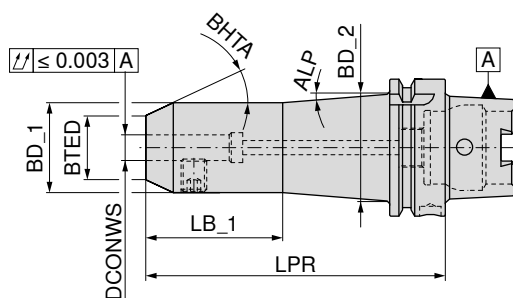
G 2,5 n_{max} 18000 G 2,5 n_{max} 18000 G 2,5 n_{max} 18000

81 736 ... 81 731 ... 81 730 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm			
short	HSK-A 32	6	60	25			
	HSK-A 32	8	60	28		306	
	HSK-A 32	10	65	35		308	
	HSK-A 32	12	75	42		310	
	HSK-A 32	16	75	48		312	
						316	
	HSK-A 40	6	60	25		406	
	HSK-A 40	8	60	28		408	
	HSK-A 40	10	65	34		410	
	HSK-A 40	12	70	42		412	
	HSK-A 40	16	80	48		416	
	HSK-A 40	20	80	52		420	
	HSK-A 50	6	65	25		506	
	HSK-A 50	8	65	28		508	
	HSK-A 50	10	65	35		510	
	HSK-A 50	12	80	42		512	
	HSK-A 50	16	80	48		516	
	HSK-A 50	20	80	52		520	
	HSK-A 50	25	105	65		525	
	HSK-A 50	32	120	72		532	
	HSK-A 63	6	65	25		606	606
	HSK-A 63	8	65	28		608	608
	HSK-A 63	10	65	35		610	610
	HSK-A 63	12	80	42		612	612
	HSK-A 63	14	80	44		614	614
	HSK-A 63	16	80	48		616	616
	HSK-A 63	18	80	50		618	618
	HSK-A 63	20	80	52		620	620
	HSK-A 63	25	110	65		625	625
	HSK-A 63	32	110	72		632	632
	HSK-A 63	40	125	80			640
	HSK-A 100	6	80	25		106	106
	HSK-A 100	8	80	28		108	108
	HSK-A 100	10	80	35		110	110
	HSK-A 100	12	80	42		112	112
	HSK-A 100	14	80	44		114	114
	HSK-A 100	16	100	48		116	116
	HSK-A 100	18	100	50		118	118
	HSK-A 100	20	100	52		120	120
	HSK-A 100	25	100	65		125	125
	HSK-A 100	32	100	72		132	132
	HSK-A 100	40	105	80		140	140
long	HSK-A 63	6	100	25	606		
	HSK-A 63	8	100	28	608		
	HSK-A 63	10	100	35	610		
	HSK-A 63	12	100	42	612		
	HSK-A 63	16	100	48	616		
	HSK-A 63	40	125	80	640		

Sidelock holder (Weldon)

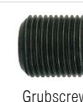
- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**

G 2,5 n_{max} 18000

81 732 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD_1 mm	BD_2 mm	BTED mm	LB_1 mm	ALP °	BHTA	
extra-long	HSK-A 63	6	160	25	34,7	15	50	3,5	25°	606
	HSK-A 63	8	160	28	37,9	20	50	3,5	25°	608
	HSK-A 63	10	160	35	43,7	25	60	3,5	25°	610
	HSK-A 63	12	160	42		30			25°	612 ¹⁾
	HSK-A 63	16	160	48		36			25°	616 ¹⁾
	HSK-A 63	20	160	52		40			25°	620 ¹⁾
	HSK-A 100	6	160	25	45,2	15	50	7,5	25°	106
	HSK-A 100	8	160	28	48,7	20	50	7,5	25°	108
	HSK-A 100	10	160	35	51,2	25	65	7,5	25°	110
	HSK-A 100	12	160	42	59,5	30	60	7,5	25°	112
	HSK-A 100	16	160	48	62,9	36	70	7,5	25°	116
	HSK-A 100	20	160	52	69,6	40	60	7,5	25°	120
	HSK-A 100	25	160	65	77,5	45	80	7,5	45°	125

1) Cylindrical shank adapter



Grubscrew

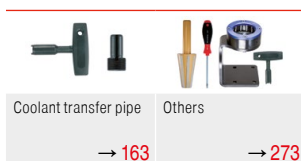
62 950 ...

Spare parts

DCONWS_{H4}

6	M6x10	006
8	M8x10	008
10	M10x12	010
12	M12x16	012
16	M14x16	016
20	M16x16	020
25	M18x2x20	025

Accessories



Coolant transfer pipe

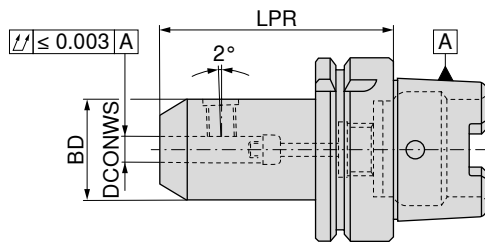
Others

→ 163

→ 273

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} 18000

81 733 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	
short	HSK-A 63	6	80	25	606
	HSK-A 63	8	80	28	608
	HSK-A 63	10	80	35	610
	HSK-A 63	12	90	42	612
	HSK-A 63	14	90	44	614
	HSK-A 63	16	100	48	616
	HSK-A 63	18	100	50	618
	HSK-A 63	20	100	52	620
	HSK-A 63	25	110	65	625
	HSK-A 63	32	110	72	632
	HSK-A 100	6	90	25	106
	HSK-A 100	8	90	28	108
	HSK-A 100	10	90	35	110
	HSK-A 100	12	100	42	112
	HSK-A 100	14	100	44	114
	HSK-A 100	16	100	48	116
	HSK-A 100	18	100	50	118
	HSK-A 100	20	110	52	120
	HSK-A 100	25	120	65	125
	HSK-A 100	32	120	72	132
	HSK-A 100	40	120	80	140



Grubscrew



Stop screw IK

62 950 ...

81 950 ...

Spare parts

DCONWS_{H4}

6	M6x10	006	M5x15	050
8	M8x10	008	M6x15	051
10	M10x12	010	M8x15	052
12 - 14	M12x16	012	M10x15	053
16 - 18	M14x16	016	M12x15	054
20	M16x16	020	M16x15	055
25	M18x2x20	025	M20x15	056
32	M20x2x20	032	M20x15	056
40	M20x2x20	032	M22x1,5x15	057

Accessories



Coolant transfer pipe

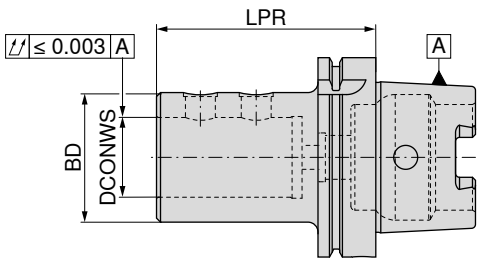
Others

→ 163

→ 273

Indexable insert drill adapter ISO 12164 HSK Form A

▲ also available with Balluff chip on request

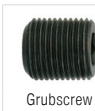


G 6,3 n_{max} 15000

10 842 ...

Adapter	DCONWS mm	LPR mm	BD mm	
HSK-A 63	20	80	40	320
HSK-A 63	25	90	45	325
HSK-A 63	32	90	52	332
HSK-A 63	40	110	65	340
HSK-A 100	20	90	40	420
HSK-A 100	25	100	45	425
HSK-A 100	32	100	52	432
HSK-A 100	40	110	65	440
HSK-A 100	50	120	75	450

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



10 950 ...

Spare parts

DCONWS		
20	M10x1x10	001
25 - 32	M12x1x10	002
40 - 50	M16x1x12	003

Accessories


Coolant transfer pipe
→ 163

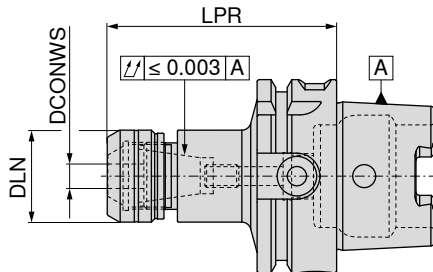

Others
→ 273

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	
HSK-A 63	1 - 10	75	30	426E (ER16)	40 / 2-70	11057
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70	21057
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160	11657
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160	21657
HSK-A 63	2 - 20	75	50	470E (ER32)	125 / 15-250	12057
HSK-A 63	2 - 20	100	50	470E (ER32)	125 / 15-250	22057
HSK-A 100	2 - 16	100	40	430E (ER25)	80 / 10-160	21655
HSK-A 100	2 - 16	160	40	430E (ER25)	80 / 10-160	41655
HSK-A 100	2 - 20	100	50	470E (ER32)	125 / 15-250	22055
HSK-A 100	2 - 20	160	50	470E (ER32)	125 / 15-250	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
Spare parts for collet	82 950 ...	82 950 ...	82 950 ...	82 950 ...
426E (ER16)	11000	01000		M8X3,0 00100
430E (ER25)	11600	01600	M18x1,5 00200	M8x8 00300
470E (ER32)	12000	02000	M18x1,5 00200	M8x8 00300

Accessories

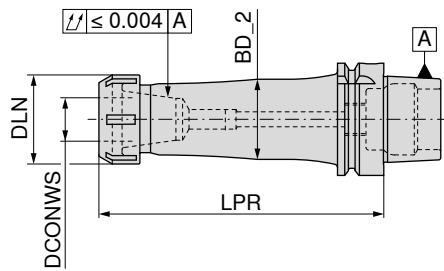
ER collet	Sealing ring	Roll key
→ 256-266	→ 270	→ 275

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



G 2,5 n_{max} 18000 G 2,5 n_{max} 18000 G 2,5 n_{max} 18000

84 726 ... 84 732 ... 84 738 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	TQX Nm	for collet			
long	HSK-A 63	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	610		
	HSK-A 63	1 - 16	100	42	37	24 - 104	430E (ER25)	616		
	HSK-A 63	2 - 20	100	50	45	24 - 136	470E (ER32)	620		
	HSK-A 63	3 - 26	100	63	52	176	472E (ER40)	626		
	HSK-A 100	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	110		
	HSK-A 100	1 - 16	100	42	37	24 - 104	430E (ER25)	116		
	HSK-A 100	2 - 20	100	50	45	24 - 136	470E (ER32)	120		
	HSK-A 100	3 - 26	100	63	56	176	472E (ER40)	126		
extra-long	HSK-A 63	1 - 10	160	22	27	8 - 56	426E (ER16 mini)			610
	HSK-A 63	1 - 16	160	42	37	24 - 104	430E (ER25)			616
	HSK-A 63	2 - 20	160	50	45	24 - 136	470E (ER32)			620
	HSK-A 63	3 - 26	160	63	52	176	472E (ER40)			626
	HSK-A 100	1 - 10	200	22	27	8 - 56	426E (ER16 mini)			110
	HSK-A 100	1 - 16	200	42	37	24 - 104	430E (ER25)			116
	HSK-A 100	2 - 20	200	50	45	24 - 136	470E (ER32)			120
	HSK-A 100	3 - 26	200	63	56	176	472E (ER40)			126
	HSK-A 100	1 - 10	160	22	27	8 - 56	426E (ER16 mini)		110	
	HSK-A 100	1 - 16	160	42	37	24 - 104	430E (ER25)		116	
	HSK-A 100	2 - 20	160	50	45	24 - 136	470E (ER32)		120	
	HSK-A 100	3 - 26	160	63	56	176	472E (ER40)		126	
	HSK-A 100	1 - 10	160	22	27	8 - 56	426E (ER16 mini)			
	HSK-A 100	1 - 16	160	42	37	24 - 104	430E (ER25)			
	HSK-A 100	2 - 20	160	50	45	24 - 136	470E (ER32)			
	HSK-A 100	3 - 26	160	63	56	176	472E (ER40)			



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

62 950 ...

Spare parts for collet

426E (ER16 mini)				101	066	058	403
430E (ER25)	055	055	125				
470E (ER32)	056	056	132				
472E (ER40)	057	057	140				

Accessories



ER collet

→ 256–266



Coolant transfer pipe

→ 163



Others

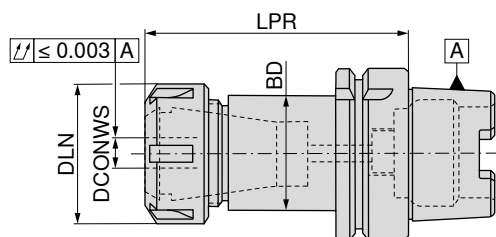
→ 273

ER-Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder with lock nut and adjustable backstop

G 2,5 n_{max} 18000G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	TQX Nm	for collet	81 735 ...	81 737 ...
short	HSK-A 32	1 - 10	65	22	19	8 - 56	426E (ER16 mini)	316	
	HSK-A 32	1 - 16	70	35	30	24 - 104	430E (ER25 mini)	325	
	HSK-A 40	1 - 10	70	22	22	8 - 56	426E (ER16 mini)	416	
	HSK-A 40	1 - 16	80	42	35	24 - 104	430E (ER25)	425	
	HSK-A 50	1 - 10	80	22	22	8 - 56	426E (ER16 mini)	516	
	HSK-A 50	1 - 16	95	42	42	24 - 104	430E (ER25)	525	
long	HSK-A 40	2 - 20	100	50	40	24 - 136	470E (ER32)	432	
	HSK-A 50	2 - 20	100	50	50	24 - 136	470E (ER32)	532	
	HSK-A 63	1 - 10	100	22	19	8 - 56	426E (ER16 mini)	616	
	HSK-A 63	1 - 16	100	42	32	24 - 104	430E (ER25)	625	
	HSK-A 63	2 - 20	100	50	50	24 - 136	470E (ER32)	632	
	HSK-A 100	1 - 16	100	42	42	24 - 104	430E (ER25)	125	
medium length	HSK-A 100	2 - 20	100	50	50	24 - 136	470E (ER32)	132	
	HSK-A 40	1 - 16	120	35	35	24 - 104	430E (ER25 mini)		425
	HSK-A 63	2 - 26	120	63	50	176	472E (ER40)	640	
	HSK-A 100	3 - 26	120	63	50	176	472E (ER40)	140	
	HSK-A 63	2 - 20	160	50	50	24 - 136	470E (ER32)		632
	HSK-A 63	3 - 26	160	63	63	176	472E (ER40)		640
extra-long	HSK-A 100	1 - 16	160	42	42	24 - 104	430E (ER25)		125
	HSK-A 100	2 - 20	160	50	50	24 - 136	470E (ER32)		132
	HSK-A 100	3 - 26	160	63	63	176	472E (ER40)		140
	HSK-A 63	2 - 20	160	50	50	24 - 136	470E (ER32)		632
	HSK-A 63	3 - 26	160	63	63	176	472E (ER40)		640
	HSK-A 100	1 - 16	160	42	42	24 - 104	430E (ER25)		125



Lock nut IK

83 950 ...



Lock nut

62 950 ...



Y clamping key

83 357 ...

ER Mini
clamping key

83 950 ...



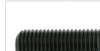
Mini lock nut

62 950 ...



Mini IK

83 950 ...



Stop screw IK

81 950 ...

Spare parts
for collet

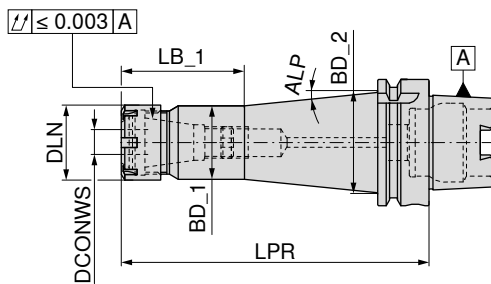
426E (ER16 mini)				101	066	058	053
430E (ER25 mini)				103	069	060	055
430E (ER25)	055	055	125				055
470E (ER32)	056	056	132				057
472E (ER40)	057	057	140				057

ER-Collet chuck

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

Scope of supply:

Toolholder with lock nut and adjustable backstop



G 2,5 n_{max} 18000

81 737 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	BD_1 mm	BD_2 mm	LB_1 mm	ALP	TQX Nm	for collet	
medium length	HSK-A 40	1 - 10	120	22	22	29,15	47	4°	8 - 56	426E (ER16 mini)	416
extra-long	HSK-A 63	1 - 10	160	22	22	35,00	57	5°	8 - 56	426E (ER16 mini)	616
	HSK-A 63	1 - 16	160	35	35	46,10	68	5°	24 - 104	430E (ER25 mini)	625

Spare parts for collet

	Lock nut IK	Lock nut	Y clamping key	ER Mini clamping key	Mini lock nut	Mini IK	Stop screw IK
426E (ER16 mini)	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	81 950 ...
430E (ER25 mini)				101 103	066 069	058 060	053 055
430E (ER25)			125				055
470E (ER32)	055 056	055 056	132				057
472E (ER40)	057	057	140				057

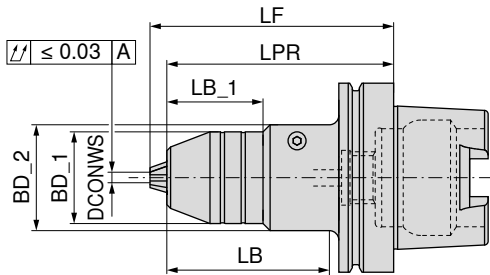
Accessories

		
ER collet	Coolant transfer pipe	Others
→ 259, 261-265	→ 163	→ 273

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 ...

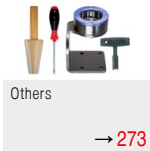
Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm
HSK-A 63	0,5 - 13	48,5	56	50,9		126,0	116,9
HSK-A 63	2,5 - 16	51,0	56	50,9		127,5	116,9
HSK-A 100	0,5 - 13	48,5	56	50,9	86	129,0	120,0
HSK-A 100	2,5 - 16	51,0	56	50,9	86	130,5	120,0

613
616

113
116

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

Accessories



Others

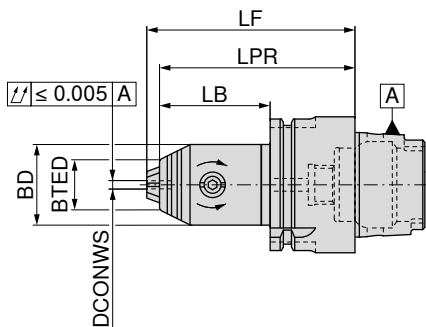
→ 273

Micro-precision collet chuck

- ▲ bidirectional
- ▲ for speeds up to 60,000 1/min.
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm



G 2,5 n_{max} 25000

84 710 ...

Adapter	DCONWS mm	LB mm	LPR mm	LF mm	BD mm	BTED mm	TQX Nm
HSK-A 32	0,2 - 3,4	26	46	49	19	12	2
HSK-A 40	0,2 - 3,4	26	46	49	19	12	2
HSK-A 50	0,2 - 3,4	26	52	55	19	12	2

**334
434
534**



TORX® blade

80 950 ...



Torque
screwdriver

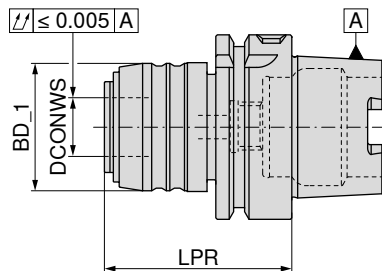
80 021 ...

**Spare parts
for Article no.**

84 710 334	152	1,8 Nm	018
84 710 434	152	1,8 Nm	018
84 710 534	152	1,8 Nm	018

Synchro tapping chuck with minimum length compensation

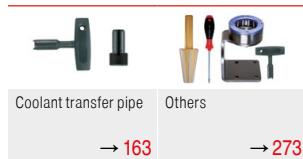
- ▲ For collets according to DIN 6499
- ▲ With length compensation under tension and under compression (LZD)
- ▲ $p_{\max} = 50$ bar
- ▲ also available with Balluff chip **on request**



83 724 ...

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	612
HSK-A 63	M6 - M20	2	32	97	60	1,0 / 0,2	620
HSK-A 100	M3 - M12	1	20	70	43	1,0 / 0,2	112
HSK-A 100	M6 - M20	2	32	91	60	1,0 / 0,2	120

Accessories



Coolant transfer pipe

Others

→ 163

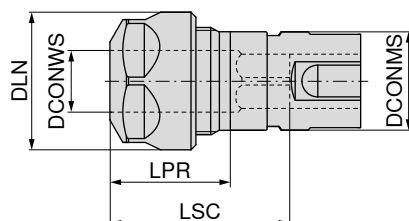
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

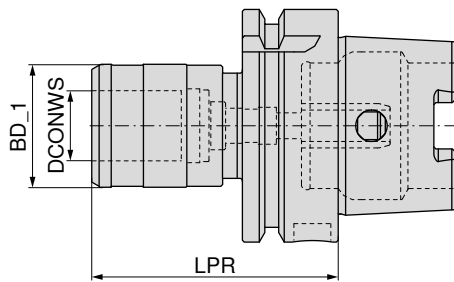
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	020

Spare parts for synchronous tapping chucks

		 Lock nut		 Lock nut IK		 Lock nut		 Y clamping key
		62 950 ...		83 950 ...		62 950 ...		83 357 ...
Spare parts for Article no.								
83 608 012	M22x1,5 - SW25	044	M22x1,5	054				116
83 608 020			M32x1,5	055	M32x1,5	055		125

Quick change tap chuck with length compensation

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

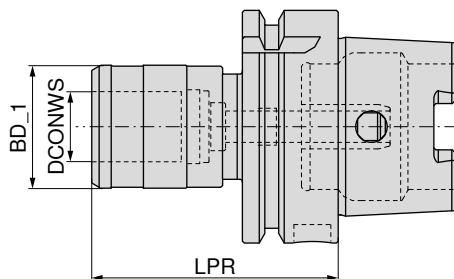


83 712 ...

Adapter	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	
HSK-A 63	01	72	41	19	7,5	612
HSK-A 63	02	110	60	31	10	620
HSK-A 100	01	80	41	19	7,5	112
HSK-A 100	02	100	60	31	10	120

Quick change tap chuck without length compensation

- ▲ $p_{max} = 50$ bar
- ▲ also available with Balluff chip **on request**



83 710 ...

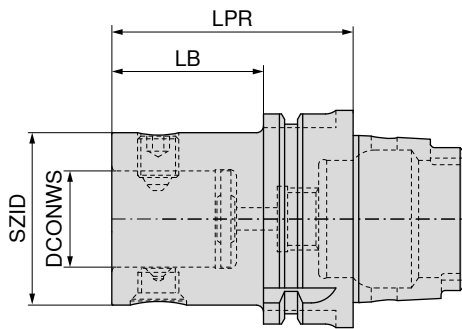
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	
HSK-A 63	M3 - M12	01	63	33	19	612
HSK-A 63	M6 - M20	02	89	50	31	620
HSK-A 100	M3 - M12	01	69	33	19	112
HSK-A 100	M6 - M20	02	92	50	31	120

Accessories

		
Collet	Coolant transfer pipe	Others
→ 277-281	→ 163	→ 273

Adapter with ABS Connection

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



G 6,3 n_{max} 10000

84 200 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	
HSK-A 63	A06 30120	ABS 25	13	50	24	06390
HSK-A 63	A06 30130	ABS 32	16	50	24	06389
HSK-A 63	A06 30140	ABS 40	20	60	34	06388
HSK-A 63	A06 30150	ABS 50	28	70	44	06397
HSK-A 63	A06 30160	ABS 63	34	80	54	06396
HSK-A 63	A06 30170	ABS 80	46	100	74	06392
HSK-A 100	A06 50120	ABS 25	13	60	31	10090
HSK-A 100	A06 50130	ABS 32	16	60	31	10089
HSK-A 100	A06 50140	ABS 40	20	80	51	10088
HSK-A 100	A06 50150	ABS 50	28	80	51	10097
HSK-A 100	A06 50160	ABS 63	34	80	51	10096
HSK-A 100	A06 50170	ABS 80	46	90	61	10092
HSK-A 100	A06 50180	ABS 100	56	100	71	10091

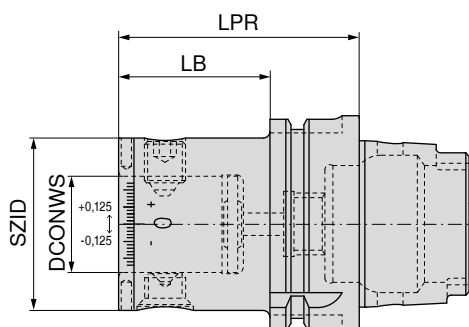
Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

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

Scope of supply:

Eccentric adjuster with adjuster key $\varnothing 2.8$ mm

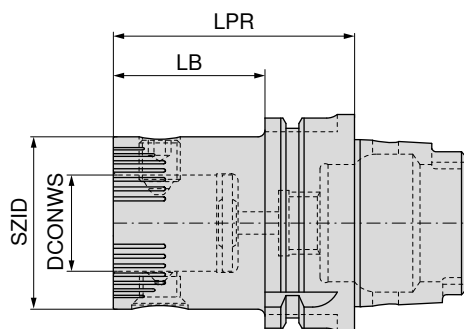


84 203 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	
HSK-A 63	A06 36730	ABS 50	28	70,0	39,5	06397
HSK-A 100	A06 56730	ABS 50	28	75,5	46,5	10097
HSK-A 100	A06 56740	ABS 63	34	80,0	51,0	10096

Torsional vibration dampers with ABS Connection

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



84 206 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	
HSK-A 63	A06 30251	ABS 50	28	70	44	06397
HSK-A 63	A06 30261	ABS 63	34	80	54	06396
HSK-A 63	A06 30270	ABS 80	46	100	74	06392
HSK-A 100	A06 50261	ABS 63	34	80	51	10096
HSK-A 100	A06 50251	ABS 50	28	80	51	10097
HSK-A 100	A06 50270	ABS 80	46	90	61	10092

Spare parts

SZID

ABS 50	20300	99800	20400
ABS 63	25500	99400	27300
ABS 80	25600	99300	25100

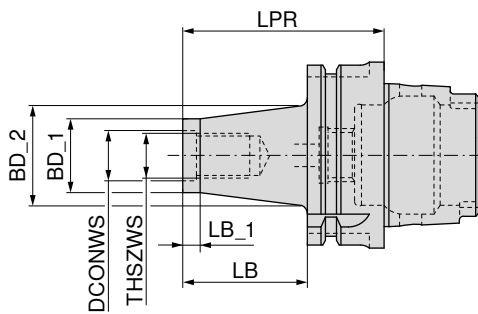
Accessories

		
Coolant transfer pipe	Extension	Others
→ 163	→ 193	→ 273

		
Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 30000

56 714 ...

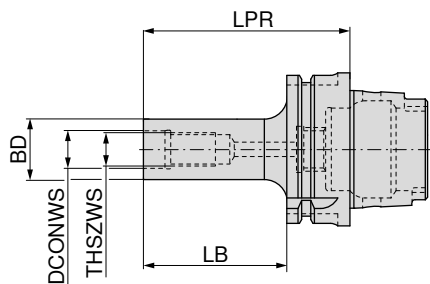
Adapter	THSZWS	DCONWS mm	LB mm	BD_1 mm	BD_2 mm	LB_1 mm	LPR mm	
HSK-A 63	M8	8,5	25	13,8	15	12	51	081
HSK-A 63	M8	8,5	50	13,8	23	12	76	082
HSK-A 63	M8	8,5	75	13,8	25	12	101	083
HSK-A 63	M8	8,5	100	13,8	30	12	126	084
HSK-A 63	M10	10,5	25	18,0	23	12	51	101
HSK-A 63	M10	10,5	50	18,0	25	12	76	102
HSK-A 63	M10	10,5	75	18,0	30	12	101	103
HSK-A 63	M10	10,5	100	18,0	35	12	126	104
HSK-A 63	M12	12,5	25	21,0	24	12	51	121
HSK-A 63	M12	12,5	50	21,0	30	12	76	122
HSK-A 63	M12	12,5	75	21,0	35	12	101	123
HSK-A 63	M12	12,5	100	21,0	38	12	126	124
HSK-A 63	M12	12,5	125	21,0	43	12	151	125
HSK-A 63	M12	12,5	150	21,0	45	12	176	126
HSK-A 63	M16	17,0	25	29,0	29	12	51	161
HSK-A 63	M16	17,0	50	29,0	34	12	76	162
HSK-A 63	M16	17,0	75	29,0	35	12	101	163
HSK-A 63	M16	17,0	100	29,0	40	12	126	164
HSK-A 63	M16	17,0	125	29,0	44	12	151	165
HSK-A 63	M16	17,0	150	29,0	48	12	176	166

Accessories

Extension-Reduction set	Coolant transfer pipe	Others
245	163	273

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 mm	BD mm	LB mm	LPR mm
HSK-A 63	M8	8,5	13,8	50	76
HSK-A 63	M10	10,5	18,0	50	76
HSK-A 63	M10	10,5	18,0	100	126
HSK-A 63	M12	12,5	21,0	50	76
HSK-A 63	M12	12,5	21,0	100	126
HSK-A 63	M16	17,0	29,0	50	76
HSK-A 63	M16	17,0	29,0	100	126

082

102

104

122

124

162

164

Accessories

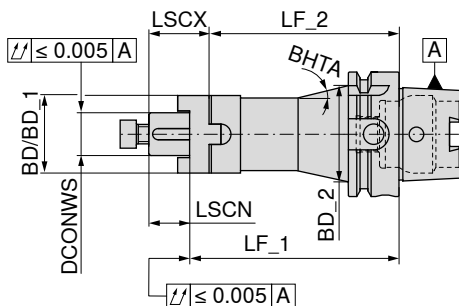
Extension-Reduction set	Coolant transfer pipe	Others
245	163	273

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 retaining screw, driving ring and dowel spring



											G 2,5 n _{max} 18000	G 2,5 n _{max} 18000	G 2,5 n _{max} 18000	G 2,5 n _{max} 18000
											81 738 ...	81 738 ...	81 739 ...	81 740 ...
	Adapter	DCONWS	LF_1	LF_2	BD	BD_1	BD_2	LSCX	LSCN	BHTA				
	mm	mm	mm	mm	mm	mm	mm	mm	mm					
short	HSK-A 63	16	60	50	32			27	17		616			
	HSK-A 63	22	60	48	40			31	19		622			
	HSK-A 63	27	60	48	48			33	21		627			
	HSK-A 63	32	60	46	53			38	24		632			
	HSK-A 63	40	70	56	70			41	27		640			
	HSK-A 100	16	60	50	32			27	17			116		
	HSK-A 100	22	60	48	40			31	19			122		
	HSK-A 100	27	60	48	48			33	21			127		
	HSK-A 100	32	60	46	58			38	24			132		
	HSK-A 100	40	70	56	70			41	27			140		
long	HSK-A 63	16	100	90	32			27	17				616	
	HSK-A 63	22	100	88	40			31	19				622	
	HSK-A 63	27	100	88	48			33	21				627	
	HSK-A 63	32	100	86	58			38	24				632	
	HSK-A 63	40	100	86	70			41	27				640	
extra-long	HSK-A 63	16	160	150		32	43,21	27	17	4,5°				616
	HSK-A 63	22	160	148		40	47,25	31	19	3,0°				622
	HSK-A 63	27	160	148	48			33	21					627
	HSK-A 63	32	160	146	58			38	24					632
	HSK-A 63	40	160	146	70			41	27					640



These combination shell adapters are prebalanced without driving ring, dowel screw and retaining screw.

Spare parts

DCONWS		83 950 ...	83 370 ...	81 950 ...
16	4 x 4 x 20	284	116	M8x20 - 30 Nm 020
22	6 x 6 x 25	285	122	M10x30 - 50 Nm 021
27	7 x 7 x 25	286	127	M12x35 - 80 Nm 022
32	8 x 7 x 28	287	132	M16x40 - 110 Nm 023
40	10 x 8 x 32	288	140	

Accessories



→ 253

→ 163

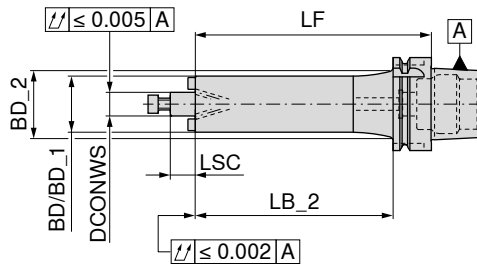
→ 273

Shell mill adapter

- ▲ For milling cutters with transverse or longitudinal groove ISO 3937
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with fixed drive dogs, dowel spring and retaining screw



G 2,5 $n_{\max}$ 18000

84 750 ...

G 2,5 $n_{\max}$ 18000

84 754 ...

G 2,5 $n_{\max}$ 18000

84 755 ...

G 2,5 $n_{\max}$ 18000

84 757 ...

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	BD_1 mm	BD_2 mm	LSC mm				
short	HSK-A 63	16	34	60	38			17				616
	HSK-A 63	22	34	60	48			19				622
	HSK-A 63	27	34	60	58			21				627
	HSK-A 63	32	34	60	72			24				632
	HSK-A 63	40	34	70	80			27				640
	HSK-A 100	16	31	60	38			17				116
	HSK-A 100	22	31	60	48			19				122
	HSK-A 100	27	31	60	58			21				127
	HSK-A 100	32	31	60	72			24				132
	HSK-A 100	40	41	70	80			27				140
long	HSK-A 63	16	74	100		38	44,3	17			616	
	HSK-A 63	22	74	100		48	50,3	19			622	
	HSK-A 63	27	74	100	58			21			627	
	HSK-A 63	32	74	100	72			24			632	
	HSK-A 63	40	74	100	80			27			640	
	HSK-A 100	16	71	100		38	46,3	17			116	
	HSK-A 100	22	71	100		48	56,3	19			122	
	HSK-A 100	27	71	100		58	66,3	24			127	
	HSK-A 100	32	71	100		72	80,3	24			132	
	HSK-A 100	40	71	100	80			27			140	
medium length	HSK-A 63	16	104	130		38	44,3	17			616	
	HSK-A 63	22	104	130		48	50,3	19			622	
	HSK-A 63	27	104	130	58			21			627	
	HSK-A 63	32	104	130	72			24			632	
	HSK-A 63	40	104	130	80			27			640	
	HSK-A 100	16	101	130		38	46,3	17			116	
	HSK-A 100	22	101	130		48	56,3	19			122	
	HSK-A 100	27	101	130		58	66,3	21			127	
	HSK-A 100	32	101	130		72	80,3	24			132	
	HSK-A 100	40	101	130	80			27			140	
extra-long	HSK-A 63	16	134	160		38	44,3	17			616	
	HSK-A 63	22	134	160		48	50,3	19			622	
	HSK-A 63	27	134	160	58			21			627	
	HSK-A 63	32	134	160	72			24			632	
	HSK-A 63	40	134	160	80			27			640	
	HSK-A 100	16	131	160		38	46,3	17			116	
	HSK-A 100	22	131	160		48	56,3	19			122	
	HSK-A 100	27	131	160		58	66,3	21			127	
	HSK-A 100	32	131	160		72	80,3	24			132	
	HSK-A 100	40	131	160	80			27			140	

Spare parts facemill adapters

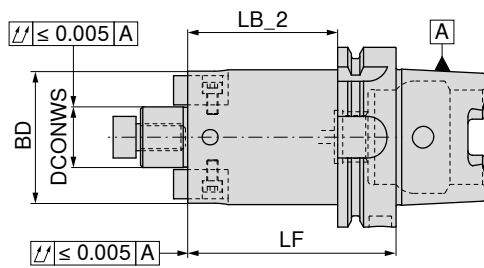
								
		83 950 ...	62 950 ...	62 950 ...	83 950 ...			
Spare parts								
DCONWS								
16	4 x 4 x 20	284	M4x15	442	M8x16 - SW6	433	M8x25	113
22	6 x 6 x 25	285	M5x17	443	M10x18 - SW8	434	M10x25	124
27	7 x 7 x 25	286	M6x21	444	M12x20 - SW10	435	M12x30	125
32	8 x 7 x 28	287	M6x22	445	M16x26 - SW12	436	M16x35	126
40	10 x 8 x 32	288	M6x23	446	M20x30 - SW14	437	M20x40 - SW17	112

Shell mill adapter

- ▲ Enlarged seating surface (Ø BD)
- ▲ 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



	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	G 2,5 n _{max} 18000 81 728 ...	G 2,5 n _{max} 18000 81 728 ...	G 2,5 n _{max} 18000 81 741 ...	G 2,5 n _{max} 18000 81 742 ...	G 2,5 n _{max} 18000 81 747 ...
short	HSK-A 63	16	24	50	38	216		616		
	HSK-A 63	22	24	50	48	222		622		
	HSK-A 63	27	34	60	58	227		627		
	HSK-A 63	32	34	60	78	232		632		
	HSK-A 63	40	34	60	88	240 ¹⁾		640 ¹⁾		
	HSK-A 100	16	21	50	38		116			
	HSK-A 100	22	21	50	48		122			
	HSK-A 100	27	21	50	58		127			
	HSK-A 100	32	21	50	78		132			
	HSK-A 100	40	31	60	88		140 ¹⁾			
long	HSK-A 100	60	41	70	129		160 ²⁾			
	HSK-A 63	16	74	100	38				616	616
	HSK-A 63	22	74	100	48				622	622
	HSK-A 63	27	74	100	58				627	627
	HSK-A 63	32	74	100	78				632	632
	HSK-A 63	40	74	100	88				640 ¹⁾	640 ¹⁾

1) With cross recess screw and threaded holes M12 on the front face, pitch circle diameter = 66.7 mm

2) With threaded holes M16 on the front face, pitch circle diameter = 101.6 mm

Spare parts facemill adapters

			
	Cross nut key	Retaining screw	Retaining screw
	83 368 ...	83 367 ...	81 950 ...
Spare parts			
DCONWS			
16	116	M8	016
22	122	M10	022
27	127	M12	027
32	132	M16	032
40	140	M20	040
60			

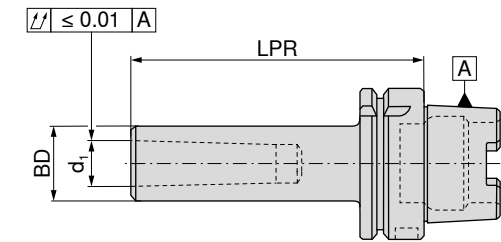
			
		drive dogs	Drive screw
		81 950 ...	81 950 ...
Spare parts			
DCONWS			
16	8x8x14	001	M3x8
22	10x10x17	002	M4x8
27	12x14x20	003	M4x14
32	14x14x22	004	M5x13
40	15,9x16x21	005	M6x16
60	25,4x25x31	006	M12x25

Accessories

		
Extensions	Coolant transfer pipe	Others
→ 252	→ 163	→ 273

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

▲ also available with Balluff chip on request



G 2,5 n_{max} 18000

81 744 ...

Adapter	d ₁	LPR mm	BD mm	
HSK-A 63	MK1	100	25	601
HSK-A 63	MK2	120	32	602
HSK-A 63	MK3	140	40	603
HSK-A 63	MK4	160	48	604
HSK-A 100	MK1	110	25	101
HSK-A 100	MK2	120	32	102
HSK-A 100	MK3	150	40	103
HSK-A 100	MK4	170	48	104
HSK-A 100	MK5	200	63	105

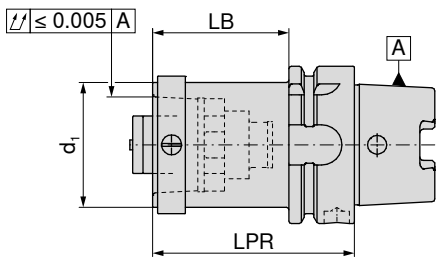
Accessories

		
Morse taper adapter sleeve	Coolant transfer pipe	Others
→ 230	→ 163	→ 273

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



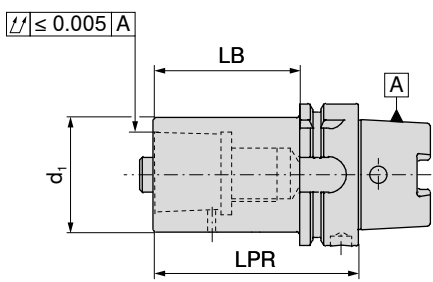
84 040 ...

Adapter	d ₁	LB mm	LPR mm	
HSK-A 63	HSK-A 40	54	80	06359
HSK-A 63	HSK-A 50	54	80	06358
HSK-A 100	HSK-A 50	51	80	10058
HSK-A 100	HSK-A 63	71	100	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



84 013 ...

Adapter	d ₁	LB mm	LPR mm	
HSK-A 63	PSC 32	49	75	06387
HSK-A 63	PSC 40	54	80	06395
HSK-A 63	PSC 50	64	90	06394
HSK-A 100	PSC 32	51	80	10087
HSK-A 100	PSC 40	61	90	10095
HSK-A 100	PSC 50	71	100	10094
HSK-A 100	PSC 63	81	110	10093
HSK-A 100	PSC 80	91	120	10086

Spare parts

d ₁			
PSC 32	127	SW8	122
PSC 40	128	SW8	123
PSC 50	129	SW10	124
PSC 63	130	SW14	126
PSC 80	130	SW14	126



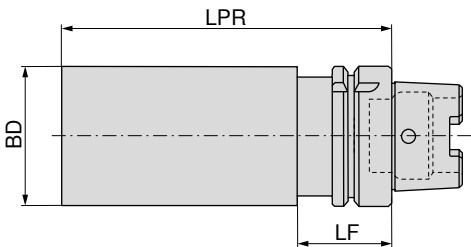
84 950 ...



84 950 ...

Blank

- ▲ Material: 20NiCrMo2
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Tool 35⁺³ HRc
- ▲ also available with Balluff chip **on request**

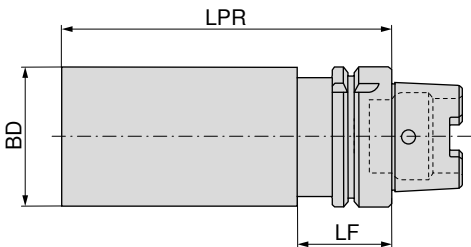


81 745 ...

Adapter	BD mm	LPR mm	LF mm	
HSK-A 32	35,0	150	35	335
HSK-A 40	40,0	150	35	440
HSK-A 40	52,0	200	35	452
HSK-A 50	52,0	200	42	552
HSK-A 50	63,0	200	42	563
HSK-A 63	63,0	200	42	663
HSK-A 63	80,0	250	42	680
HSK-A 100	63,0	200	45	163
HSK-A 100	80,0	250	45	180
HSK-A 100	97,5	250	45	190

Blank

- ▲ For the production of special tools
- ▲ Material: case hardened steel 16MnCr5
- ▲ Taper hardened and ground
- ▲ Tool production area = soft
- ▲ also available with Balluff chip **on request**

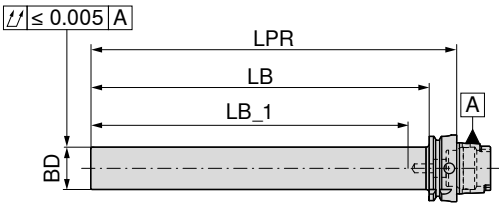


84 799 ...

Adapter	BD mm	LPR mm	LF mm	
HSK 63	63	200	42	663
HSK 63	80	250	42	680

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

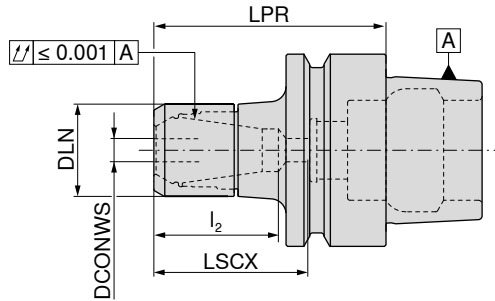
81 746 ...
063
100

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)	417
HSK-E 50	2 - 16	70	40	49	30 - 39	430E (ER25)	516

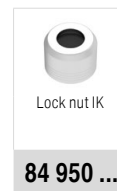
→ Transmittable torque moments, Page 300



LSCX = Clamping depth without back stop screw for shanks

l_2 = With back stop screw 1

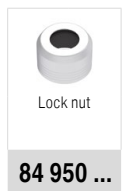
Dimension LPR when using tightening nuts with seals 4 mm longer



Lock nut IK

84 950 ...

013



Lock nut

84 950 ...

003

Spare parts for collet

430E (ER25)

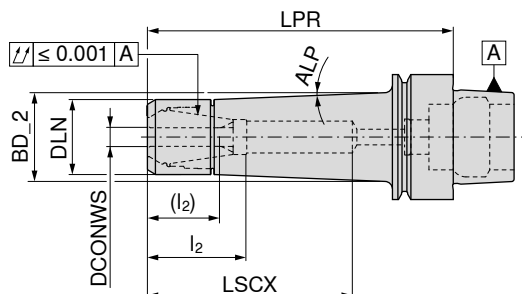
Accessories

ER collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256-263, 266	→ 269	→ 275	→ 275	→ 163	→ 273

ER Precision tapered collet chuck – 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** backstopG 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)	07200
	HSK-E 32	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	307
	HSK-E 40	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	407
	HSK-E 25	1 - 10	45	22		30			426E (ER16 mini)	101
	HSK-E 32	1 - 10	55	22	25,8	40	28 - 32 (12 - 22)	4,5°	426E (ER16 mini)	310
	HSK-E 40	1 - 10	55	22	25,8	38	28 - 30 (12 - 20)	4,5°	426E (ER16 mini)	410
	HSK-E 50	1 - 10	60	22	25,4	39	28 - 31 (12 - 21)	4,5°	426E (ER16 mini)	510
long	HSK-E 40	1 - 7	100	16	25,4	64	18 - 36 (12 - 26)	4,5°	4008E (ER11 mini)	408
	HSK-E 40	1 - 10	100	22	29,0	66	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	411
	HSK-E 50	1 - 10	100	22	28,2	72	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	511

→ Transmittable torque moments, Page 300



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)
 426E (ER16 mini)

Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
84 950 ...	84 950 ...	83 950 ...	83 950 ...
035	041	340	336
	034	341	337

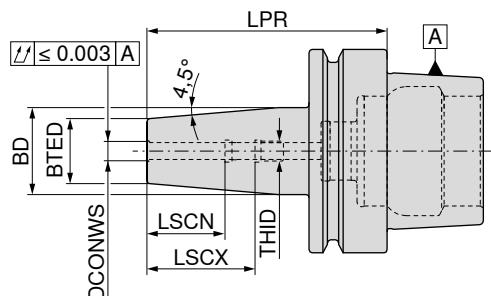
Accessories

ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256-263, 266	→ 269	→ 274	→ 275	→ 275	→ 163	→ 273

Shrink fit adapters

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

TG

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

84 307 ...

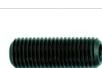
84 308 ...

84 309 ...

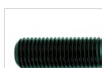
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
short	HSK-E 32	3	60	10	15	28	12	M5
	HSK-E 32	4	60	10	15	28	16	M5
	HSK-E 32	5	60	10	15	30	20	M5
	HSK-E 32	6	70	21	25	36	26	M5
	HSK-E 32	8	70	21	25	36	26	M6
	HSK-E 32	10	75	24	29	41	31	M8x1
	HSK-E 32	12	80	24	29	47	37	M10x1
	HSK-E 40	3	60	10	15	28	12	M6
	HSK-E 40	4	60	10	15	28	16	M6
	HSK-E 40	5	60	10	15	30	20	M6
	HSK-E 40	6	80	21	27	36	26	M5
	HSK-E 40	8	80	21	27	36	26	M6
	HSK-E 40	10	80	24	32	41	31	M8x1
	HSK-E 40	12	90	24	32	47	37	M10x1
	HSK-E 40	14	90	27	34	47	37	M10x1
	HSK-E 40	16	90	27	34	50	40	M12x1
	HSK-E 50	3	80	10	15	22	12	M6
	HSK-E 50	4	80	15	22	26	16	M6
	HSK-E 50	5	80	15	22	30	20	M6
	HSK-E 50	6	80	21	27	36	26	M5
	HSK-E 50	8	80	21	27	36	26	M6
	HSK-E 50	10	85	24	32	41	31	M8x1
	HSK-E 50	12	90	24	32	47	37	M10x1
	HSK-E 50	14	90	27	34	47	37	M10x1
	HSK-E 50	16	95	27	34	50	40	M12x1
	HSK-E 50	18	95	33	42	50	40	M12x1
	HSK-E 50	20	100	33	42	52	42	M16x1

103
104
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108
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112103
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116103
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108
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114
116
118
120

→ Min. clamping depth, Page 300



Stop screw IK

Thro' coolant
back stop screw

Stop screw IK

83 950 ...

83 950 ...

83 950 ...

Spare parts
DCONWS

3 - 5	M6x14 - SW2	417	M5x14 - SW2	411	
6					M5x12,5 - SW2,5
8					M6x12,5 - SW3
10					M8x1x13,5 - SW3
12 - 14					M10x1x13,5 - SW5
16 - 18					M12x1x13,5 - SW5
20					M16x1x13,5 - SW5

418
419
420
421
422
423

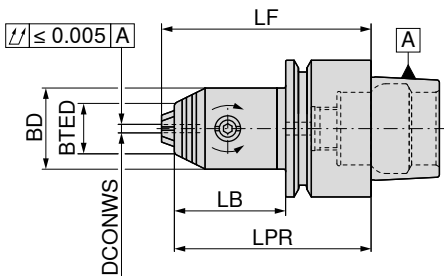
Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

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

84 712 ...

Adapter	DCONWS mm	LB mm	LPR mm	LF mm	BD mm	BTED mm	TQX Nm
HSK-E 25	0,2 - 3,4	27	37	40	19	12	2
HSK-E 32	0,2 - 3,4	26	46	49	19	12	2
HSK-E 40	0,2 - 3,4	26	46	49	19	12	2

234

334

434



TORX® blade

80 950 ...



Torque
screwdriver

80 021 ...

Spare parts
for Article no.

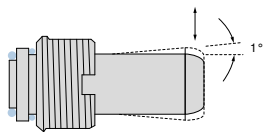
84 712 234	152	1,8 Nm	018
84 712 334	152	1,8 Nm	018
84 712 434	152	1,8 Nm	018

Coolant pipe

▲ use up to 100 bar

Scope of supply:

complete, including seals



83 760 ...

Adapter	THOD	
HSK 32	M10 x 1	032
HSK 40	M12 x 1	040
HSK 50	M16 x 1	050
HSK 63	M18 x 1	063
HSK 80	M20 x 1,5	080
HSK 100	M24 x 1,5	100

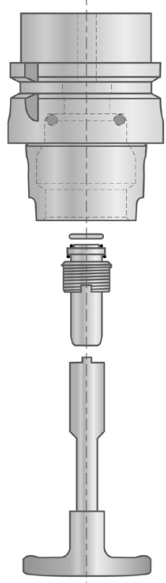
Key



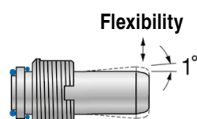
83 758 ...

Adapter	
HSK 32	032
HSK 40	040
HSK 50	050
HSK 63	063
HSK 80	080
HSK 100	100

Coolant pipe for HSK tools



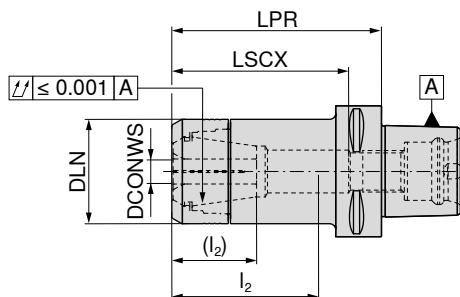
The coolant pipe is ideally mounted in vertical direction – from the bottom to the top. In this manner the sealing ring is prevented from being compressed during locating which would cause the loss of its sealing function. After mounting, the coolant pipe can be moved only to a minimum degree according 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** backstopG 2,5 n_{max} 25000

84 112 ...

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

→ Transmittable torque moments, Page 300



LSCX = Clamping depth without back stop screw for shanks
 I₂ = With back stop screw 1, Dimension in brackets (I₂) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer



Lock nut IK

84 950 ...



Lock nut

84 950 ...



Stop screw 2

83 950 ...



Stop screw 1

83 950 ...

Spare parts
for collet

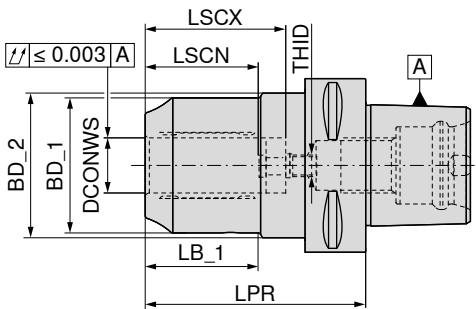
426E (ER16)	011	001	M11x1 - SW6	341	M11x1 - SW6	337
430E (ER25)	013	003	M18x1,5 - SW6	432	M18x1,5 - SW6	431
470E (ER32)	015	005	M22x1,5 - SW6	402	M22x1,5 - SW6	401
472E (ER40)	017	007			M28x1,5 - SW6	400

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



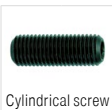
G 2,5 n_{max} 25000

84 108 ...

62000

Adapter	DCONWS mm	LPR mm	LB_1 mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID
PSC 63	20	80	41	49	52,5	51	41	M8x1

→ Min. clamping depth, Page 300



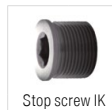
Cylindrical screw



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

157

SW5

050

M10x1x14

429

M16x1x13,5 - SW8

424

Accessories



Reduction sleeve

→ **271**



Coolant transfer pipe

→ **182**



Others

→ **273**

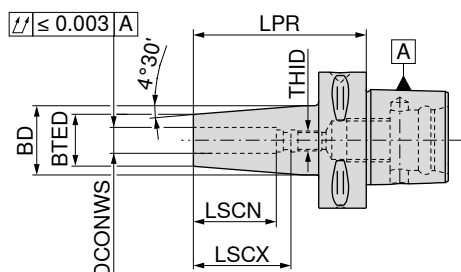
Shrink adapters

- ▲ 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 G 6,3 n_{max} 15000

84 104 ... 84 105 ... 84 106 ...

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID			
short	PSC 32	65	6	21	27	36	26	M5		306	
	PSC 32	65	8	21	27	36	26	M6		308	
	PSC 32	70	10	24	32	41	31	M8x1		310	
	PSC 32	75	12	24	32	47	37	M10x1		312	
	PSC 40	75	6	21	27	36	26	M5		406	
	PSC 40	75	8	21	27	36	26	M6		408	
	PSC 40	75	10	24	32	41	31	M8x1		410	
	PSC 40	75	12	24	32	47	37	M10x1		412	
	PSC 40	80	14	27	34	47	37	M10x1		414	
	PSC 40	80	16	27	34	50	40	M12x1		416	
	PSC 40	80	18	33	42	50	40	M12x1		418	
	PSC 40	85	20	33	42	52	42	M16x1		420	
	PSC 50	65	3	12	17					503	
	PSC 50	65	4	12	17					504	
	PSC 50	65	5	12	17					505	
long	PSC 50	75	6	21	30	36	26	M5		506	
	PSC 50	75	8	21	30	36	26	M6		508	
	PSC 50	75	10	24	33	41	31	M8x1		510	
	PSC 50	75	12	24	33	47	37	M10x1		512	
	PSC 50	80	14	27	34	47	37	M10x1		514	
	PSC 50	80	16	27	34	50	40	M12x1		516	
	PSC 50	80	18	33	42	50	40	M12x1		518	
	PSC 50	85	20	33	42	52	42	M16x1		520	
	PSC 50	90	25	44	53	58	48	M16x1		525	
	PSC 50	120	6	21	32	36	26	M5			506
	PSC 50	120	8	21	32	36	26	M6			508
	PSC 50	120	10	24	34	41	31	M8x1			510
	PSC 50	120	12	24	34	47	37	M10x1			512
	PSC 50	120	14	27	36	47	37	M10x1			514
	PSC 50	120	16	27	36	50	40	M12x1			516
	PSC 50	120	18	33	42	50	40	M12x1			518
short	PSC 50	120	20	33	42	52	42	M16x1			520
	PSC 50	120	25	44	53	58	48	M16x1			525
	PSC 63	80	3	12	17					603	
	PSC 63	80	4	12	17					604	
	PSC 63	80	5	12	17					605	
	PSC 63	80	6	21	27	36	26	M5		606	
	PSC 63	80	8	21	27	36	26	M6		608	
	PSC 63	80	10	24	32	41	31	M8x1		610	
	PSC 63	80	12	24	32	47	37	M10x1		612	
	PSC 63	85	14	27	34	47	37	M10x1		614	
	PSC 63	85	16	27	34	50	40	M12x1		616	
	PSC 63	85	18	33	42	50	40	M12x1		618	
	PSC 63	85	20	33	42	52	42	M16x1		620	
	PSC 63	90	25	44	53	58	48	M16x1		625	
	PSC 63	95	32	44	53	61	51	M16x1		632	

→ Min. clamping depth, Page 300

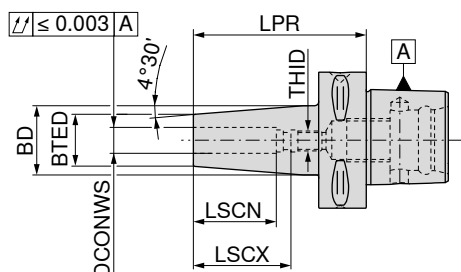
Shrink adapters

- ▲ 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 G 6,3 n_{max} 15000

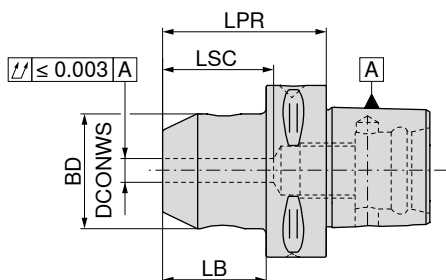
84 104 ... 84 105 ... 84 106 ...

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID			
long	PSC 63	120	6	21	32	36	26	M5			
	PSC 63	120	8	21	32	36	26	M6			
	PSC 63	120	10	24	32	41	31	M8x1			
	PSC 63	120	12	24	32	47	37	M10x1			
	PSC 63	120	14	27	36	47	37	M10x1			
	PSC 63	120	16	27	36	50	40	M12x1			
	PSC 63	120	18	33	44	50	40	M12x1			
	PSC 63	120	20	33	44	52	42	M16x1			
	PSC 63	120	25	44	53	58	48	M16x1			
extra-long	PSC 63	120	32	44	53	61	51	M16x1			
	PSC 63	160	6	21	32	36	26	M5			
	PSC 63	160	8	21	32	36	26	M6			
	PSC 63	160	10	24	34	41	31	M8x1			
	PSC 63	160	12	24	34	47	37	M10x1			
	PSC 63	160	14	27	36	47	37	M10x1			
	PSC 63	160	16	27	36	50	40	M12x1			
	PSC 63	160	18	33	44	50	40	M12x1			
	PSC 63	160	20	33	44	52	42	M16x1			
short	PSC 80	85	25	44	53	58	48	M16x1			
	PSC 80	100	32	44	53	61	51	M16x1			
	PSC 80	85	6	21	27	36	26	M5	806		
	PSC 80	85	8	21	27	36	26	M6	808		
	PSC 80	85	10	24	32	41	31	M8x1	810		
	PSC 80	85	12	24	32	47	37	M10x1	812		
	PSC 80	90	14	27	34	47	37	M10x1	814		
	PSC 80	90	16	27	34	50	40	M12x1	816		
	PSC 80	90	18	33	42	50	40	M12x1	818		
long	PSC 80	90	20	33	42	52	42	M16x1	820		
	PSC 80	95	25	44	53	58	48	M16x1	825		
	PSC 80	100	32	44	53	61	51	M16x1	832		
	PSC 80	120	6	21	32	36	26	M5		806	
	PSC 80	120	8	21	32	36	26	M6		808	
	PSC 80	120	10	24	34	41	31	M8x1		810	
	PSC 80	120	12	24	34	47	37	M10x1		812	
	PSC 80	120	14	27	36	47	37	M10x1		814	
	PSC 80	120	16	27	36	50	40	M12x1		816	
	PSC 80	120	18	33	44	50	40	M12x1		818	
	PSC 80	120	20	33	44	52	42	M16x1		820	
	PSC 80	120	25	44	53	58	48	M16x1		825	
	PSC 80	120	32	44	53	61	51	M16x1		832	

→ Min. clamping depth, Page 300

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

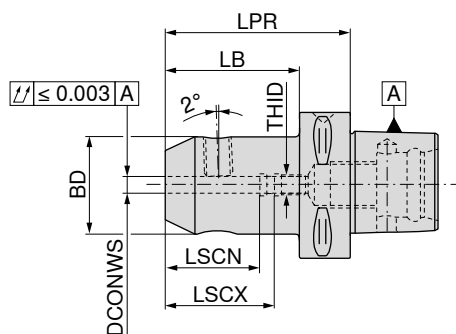
84 100 ...

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

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



Backstop
screw IK

84 950 ...

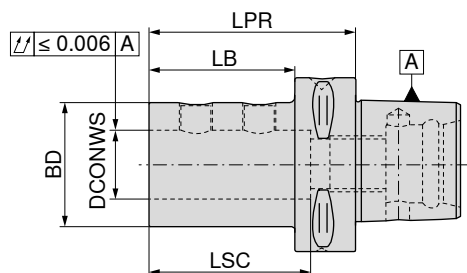
Spare parts DCONWS

6	M5	146
8	M6	147
10	M8	148
12 - 14	M10	149
16 - 18	M12	150
20 - 32	M16	151

Indexable insert drill adapter ISO 26623-1 PSC

▲ Run out ≤ 0.005 mm

▲ also available with Balluff chip on request



84 128 ...

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



Grubscrew

83 950 ...

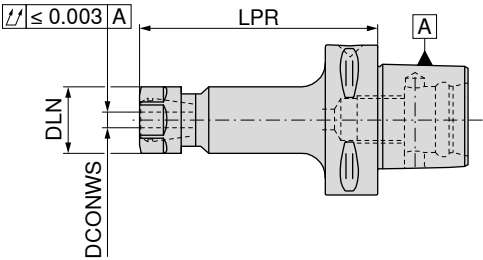
Spare parts

DCONWS

16 - 20	M10x1x10	180
25 - 32	M10x1x12	181
40 - 50	M16x1x13	182

ER Collet chuck

- ▲ without an internal thread
- ▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

84 114 ...

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



Lock nut

62 950 ...

Spare parts for collet

426E (ER16)	M22x1,5 - SW25	044
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Accessories

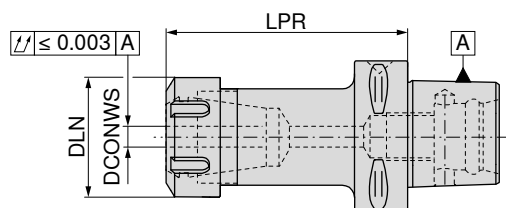


ER collet

256–263, 266

ER Collet chuck

- ▲ without an internal thread
- ▲ 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	
PSC 32	1 - 13	45	34	16 - 80	428E (ER20)	306
PSC 40	1 - 13	55	34	16 - 80	428E (ER20)	404
PSC 40	1 - 16	55	42	24 - 104	430E (ER25)	406
PSC 40	2 - 20	55	50	24 - 136	470E (ER32)	408
PSC 50	1 - 13	60	34	16 - 80	428E (ER20)	502
PSC 50	1 - 13	100	34	16 - 80	428E (ER20)	504
PSC 50	1 - 16	60	42	24 - 104	430E (ER25)	506
PSC 50	1 - 16	100	42	24 - 104	430E (ER25)	508
PSC 50	2 - 20	60	50	24 - 136	470E (ER32)	510
PSC 50	2 - 20	100	50	24 - 136	470E (ER32)	512
PSC 50	3 - 26	65	63	176	472E (ER40)	514
PSC 50	3 - 26	100	63	176	472E (ER40)	516
PSC 63	1 - 13	60	34	16 - 80	428E (ER20)	602
PSC 63	1 - 13	100	34	16 - 80	428E (ER20)	604
PSC 63	1 - 16	60	42	24 - 104	430E (ER25)	606
PSC 63	1 - 16	100	42	24 - 104	430E (ER25)	608
PSC 63	2 - 20	60	50	24 - 136	470E (ER32)	610
PSC 63	2 - 20	100	50	24 - 136	470E (ER32)	612
PSC 63	3 - 26	65	63	176	472E (ER40)	614
PSC 63	3 - 26	100	63	176	472E (ER40)	616
PSC 80	1 - 13	65	34	16 - 80	428E (ER20)	802
PSC 80	1 - 13	100	34	16 - 80	428E (ER20)	804
PSC 80	1 - 16	70	42	24 - 104	430E (ER25)	806
PSC 80	1 - 16	100	42	24 - 104	430E (ER25)	808
PSC 80	2 - 20	70	50	24 - 136	470E (ER32)	810
PSC 80	2 - 20	100	50	24 - 136	470E (ER32)	812
PSC 80	3 - 26	80	63	176	472E (ER40)	814
PSC 80	3 - 26	100	63	176	472E (ER40)	816



Lock nut

62 950 ...



Lock nut IK

83 950 ...



Lock nut

62 950 ...



Y clamping key

83 357 ...

Spare parts
for collet

428E (ER20)	M25x1,5 - SW30	045	M25x1,5	053		12000
430E (ER25)			M32x1,5	055		125
470E (ER32)			M40x1,5	056		132
472E (ER40)			M50x1,5	057		140

Accessories



ER collet

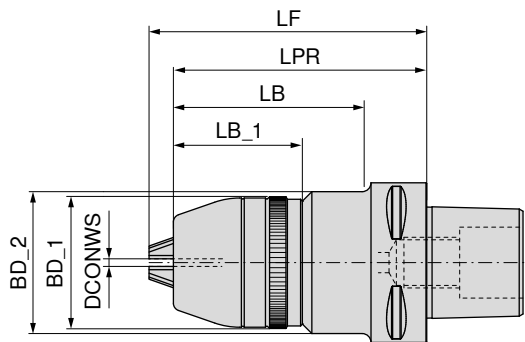
→ 256-266

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



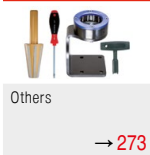
G 2,5 n_{max} 12000

84 111 ...

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	01395
PSC 40	2,5 - 16	51,0	56	52,15	78,0	100	110,5	01695
PSC 50	0,5 - 13	48,5	56	50,90	77,0	100	109,0	01394
PSC 50	2,5 - 16	51,0	56	52,15	77,0	100	110,5	01694
PSC 63	0,5 - 13	48,5	56	50,90	74,5	100	109,0	01393
PSC 63	2,5 - 16	51,0	56	52,15	74,5	100	110,5	01693

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

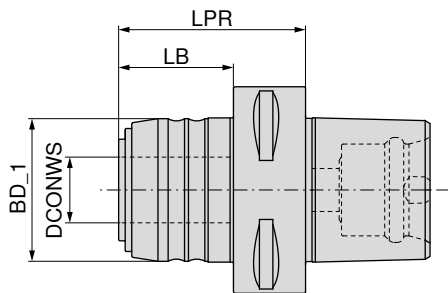
Accessories



→ 273

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
PSC 63	M3 - M12	1	57	43	20	35	1,0 / 0,2
PSC 63	M6 - M20	2	77	60	32	55	1,0 / 0,2

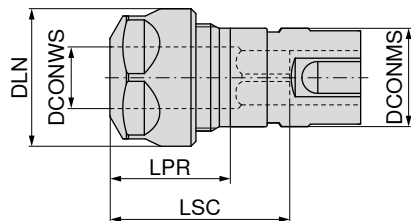
612
620

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
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32

012
020

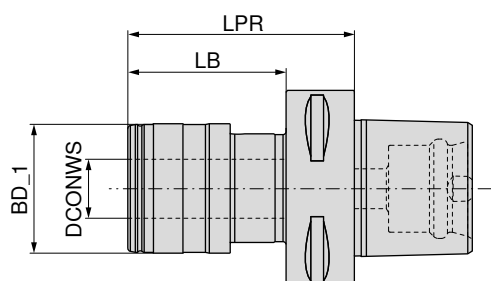
Spare parts

insert for synchro quick change tapping chuck with minimum length compensation

					
		62 950 ...	83 950 ...	62 950 ...	83 357 ...
Spare parts for Article no.					
83 608 012	M22x1,5 - SW25	044	M22x1,5 054	M22x1,5 054	116
83 608 020			M32x1,5 055	M32x1,5 055	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 mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	84 142 ...
PSC 63	M3 - M12	01	73	41	19	51	7,5	612
PSC 63	M6 - M20	02	97	60	31	75	10	620

Accessories

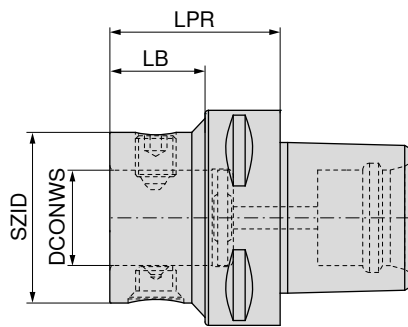


Collet

→ 277-281

Adapter with ABS Connection

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

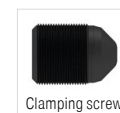


84 215 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	
PSC 40	A69 04050	ABS 50	28	50	30	04097
PSC 50	A69 05050	ABS 50	28	50	30	05097
PSC 63	A69 06050	ABS 50	28	50	28	06397
PSC 63	A69 06060	ABS 63	34	60	36	06396
PSC 80	A69 08050	ABS 50	28	50	23	08097
PSC 80	A69 08060	ABS 63	34	60	30	08096
PSC 80	A69 08070	ABS 80	46	80	48	08092

Spare parts SZID

ABS 50	20300	99800	20400
ABS 63	25500	99400	27300
ABS 80	25600	99300	25100



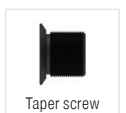
Clamping screw

84 950 ...



Set

84 950 ...

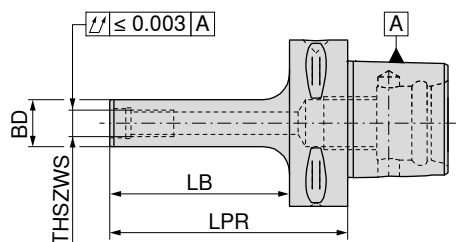


Taper screw

84 950 ...

Adapter for screw-in milling cutter

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



G 2,5 n_{max} 20000

84 110 ...

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

Accessories



Coolant transfer pipe

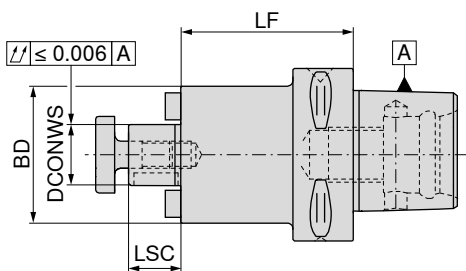
→ 182

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	
PSC 40	16	28	40	17	401
PSC 40	16	63	40	17	402
PSC 40	22	40	50	19	411
PSC 40	22	63	50	19	412
PSC 50	16	28	40	17	501
PSC 50	16	63	40	17	502
PSC 50	22	28	50	19	511
PSC 50	22	63	50	19	512
PSC 50	27	32	50	21	521
PSC 50	27	63	50	21	522
PSC 50	32	40	63	24	531
PSC 50	32	63	63	24	532
PSC 63	16	63	40	17	602
PSC 63	22	28	63	19	611
PSC 63	22	63	50	19	612
PSC 63	27	28	58	21	621
PSC 63	27	63	58	21	622
PSC 63	32	22	63	24	631
PSC 63	32	86	63	24	632
PSC 63	40	40	70	27	641
PSC 80	16	63	40	17	802
PSC 80	22	30	50	19	811
PSC 80	22	63	50	19	812
PSC 80	27	30	58	21	821
PSC 80	27	63	58	21	822
PSC 80	32	30	63	24	831
PSC 80	32	86	63	24	832
PSC 80	40	40	70	27	841



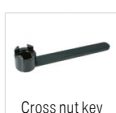
drive key

84 950 ...



drive dog

84 950 ...



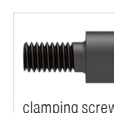
Cross nut key

83 368 ...



Retaining screw

83 367 ...



clamping screw

83 950 ...

Spare parts

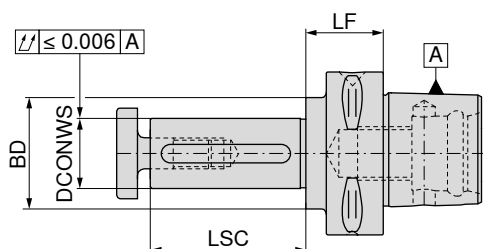
DCONWS							
16	108	113	116	M8	016	M8x25	113
22	109	114	122	M10	022	M10x25	124
27	110	115	127	M12	027	M12x30	125
32	111	116	132	M16	032	M16x35	126
40	112	117	140	M20	040	M20x40 - SW17	112

Milling arbor

- ▲ for cutters with long drive slot
- ▲ Runout ≤ 0.005 mm
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with clamping screw and drive key



84 124 ...

Adapter	DCONWS mm	LF mm	BD mm	LSC mm	
PSC 32	16	20	28	30	316
PSC 40	16	25	28	30	416
PSC 40	22	25	36	40	422
PSC 40	27	25	40	60	427
PSC 50	16	25	28	30	516
PSC 50	22	25	36	40	522
PSC 50	27	25	43	60	527
PSC 50	32	25	50	60	532
PSC 63	16	30	28	30	616
PSC 63	22	30	36	40	622
PSC 63	27	30	43	60	627
PSC 63	32	25	48	60	632
PSC 63	40	25	56	60	640
PSC 80	16	40	28	30	816
PSC 80	22	40	36	40	822
PSC 80	27	30	43	60	827
PSC 80	32	30	48	60	832
PSC 80	40	30	56	60	840
PSC 80	50	30	70	60	850
PSC 80	60	30	60	60	860

Spare parts

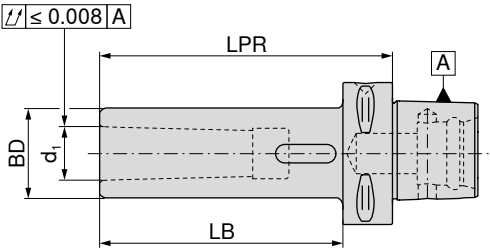
DCONWS

16	101	116	M8	016
22	102	122	M10	022
27	103	127	M12	027
32	104	132	M16	032
40	105	140	M20	040
50	106	150	M24	050
60	107			



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

▲ also available with Balluff chip on request

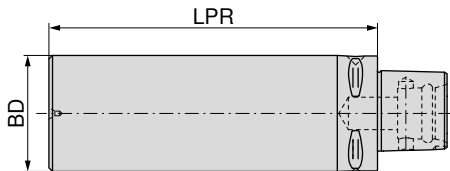


84 126 ...

Adapter	d ₁	LPR mm	BD mm	LB mm	
PSC 40	MK2	110	32	90	402
PSC 40	MK3	130	40	119	403
PSC 50	MK2	110	32	90	502
PSC 50	MK3	130	40	110	503
PSC 50	MK4	150	48	132	504
PSC 63	MK2	110	32	88	602
PSC 63	MK3	130	40	108	603
PSC 63	MK4	150	48	128	604
PSC 80	MK2	120	32	90	802
PSC 80	MK3	140	40	110	803
PSC 80	MK4	160	48	130	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**

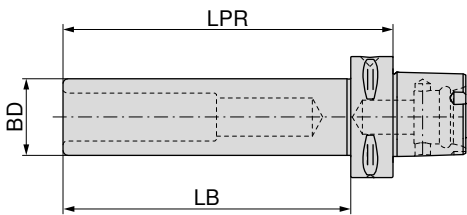


84 134 ...

Adapter	BD mm	LPR mm	
PSC 40	40	95	402
PSC 40	40	120	403
PSC 40	60	165	404
PSC 40	80	75	405
PSC 40	80	120	406
PSC 40	100	85	408
PSC 50	50	125	502
PSC 50	50	150	503
PSC 50	75	175	504
PSC 50	90	80	506
PSC 50	95	150	508
PSC 50	110	90	510
PSC 63	63	180	602
PSC 63	75	195	604
PSC 63	110	85	606
PSC 63	120	180	608
PSC 63	130	95	610
PSC 80	80	200	802
PSC 80	120	160	804
PSC 80	130	90	806
PSC 80	145	200	808

Test bar

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



84 136 ...

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

030
040
050
060
080

Coolant pipe

Scope of supply:

complete, including seals



84 116 ...

Adapter	THOD
PSC 40	M14 x 1,5
PSC 50	M16 x 1,5
PSC 63	M20 x 2,0
PSC 80	M20 x 2,0

04000
05000
06300
08000

Key



84 117 ...

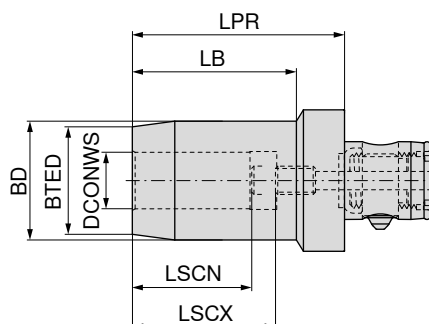
Adapter	
PSC 40	04000
PSC 50	05000
PSC 63	06300
PSC 80	08000

Hydraulic chuck

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

Scope of supply:

Base body including backstop screw



NEW



84 223 ...

Adapter	KOMET no.	DCONWS mm	BTED mm	BD mm	LPR mm	LB mm	LSCX mm	LSCN mm	
ABS 40	A32 32060	8	24	28	60	42,0	37	27	00888
ABS 40	A32 32070	10	26	30	65	47,5	41	31	01088
ABS 40	A32 32080	12	28	32	65	48,0	46	36	01288
ABS 50	A32 42110	6	22	26	55	33,5	37	27	00697
ABS 50	A32 42120	8	24	28	55	34,0	37	27	00897
ABS 50	A32 42130	10	26	30	65	45,0	41	31	01097
ABS 50	A32 42140	12	28	32	65	45,5	46	36	01297
ABS 50	A32 42150	14	30	34	65	46,0	46	36	01497
ABS 50	A32 42160	16	34	38	70	52,0	49	39	01697
ABS 50	A32 42170	18	36	40	70	52,5	49	39	01897
ABS 50	A32 42101	20	38	42	75	58,0	51	41	02097
ABS 63	A32 52180	20	38	42	78	56,0	51	41	02096
ABS 63	A32 52190	25	53	57	85	60,0	57	47	02596
ABS 63	A32 52200	32	60	64	90	61,0	61	51	03296



Backstop screw

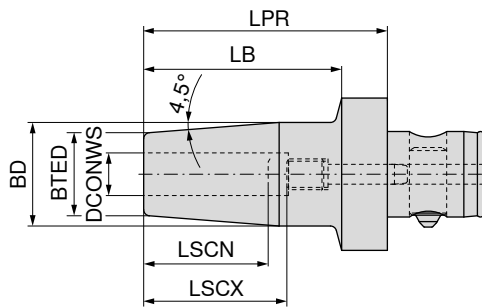
84 950 ...

Spare parts for Article no.

84 223 00697	M6x12 - SW2,5	22000
84 223 00897	M8x1x12 - SW3	22100
84 223 00888	M6x12 - SW2,5	22000
84 223 01088	M8x1x12 - SW3	22100
84 223 01097	M10x1x12 - SW4	22200
84 223 01297	M10x1x12 - SW4	22200
84 223 01288	M10x1x12 - SW4	22200
84 223 01497	M10x1x12 - SW4	22200
84 223 01697	M10x1x12 - SW4	22200
84 223 01897	M16x1x16 - SW5	22400
84 223 02096	M16x1x16 - SW5	22400
84 223 02097	M5x12 - SW2	22300
84 223 02596	M16x1x16 - SW5	22400
84 223 03296	M16x1x16 - SW5	22400

Shrink fit adapters 4.5°

▲ 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	00689
ABS 32	A32 26050	8	70	27	21	56	36	26	00889
ABS 32	A32 26061	10	70	32	24	56	42	32	01089
ABS 32	A32 26071	12	80	32	24	66	47	37	01289
ABS 40	A32 36050	8	70	27	21	56	36	26	00888
ABS 40	A32 36061	10	70	32	24	56	42	32	01088
ABS 40	A32 36071	12	80	32	24	66	47	37	01288
ABS 40	A32 36091	16	90	34	27	76	50	40	01688
ABS 50	A32 46040	6	75	27	21	56	36	26	00697
ABS 50	A32 46050	8	75	27	21	56	36	26	00897
ABS 50	A32 46061	10	80	32	24	61	42	32	01097
ABS 50	A32 46071	12	80	32	24	61	47	37	01297
ABS 50	A32 46081	14	80	34	27	61	47	37	01497
ABS 50	A32 46091	16	85	34	27	66	50	40	01697
ABS 50	A32 46101	18	85	42	33	66	50	40	01897
ABS 50	A32 46111	20	90	42	33	71	52	42	02097
ABS 63	A32 56111	20	90	42	33	71	52	42	02096
ABS 63	A32 56121	25	95	53	44	76	58	48	02596
ABS 63	A32 56131	32	95	53	44	76	58	48	03296



Backstop screw

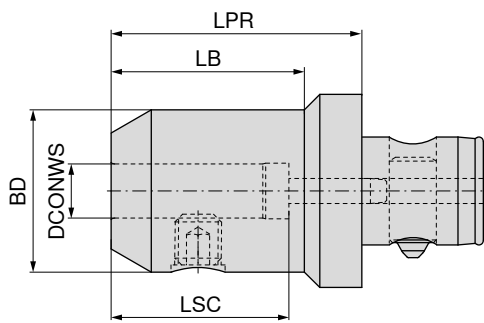
84 950 ...

Spare parts
DCONWS

6	M5x18	21400
8	M6x20	21500
10	M8x1x20	21600
12	M10x1x20	21700
14	M10x1x20	21700
16	M12x1x20	21800
18	M12x1x20	21800
20	M8x1x20	21900
25	M8x1x20	21900
32	M8x1x20	21900

Cylindrical shank adapter (Weldon)

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



84 221 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	
ABS 50	A32 40010	6	45	25,0	27	40	00697
ABS 50	A32 40020	8	45	28,0	27	40	00897
ABS 50	A32 40030	10	55	35,0	37	44	01097
ABS 50	A32 40040	12	65	42,0	50	49	01297
ABS 50	A32 40080	14	65	44,0	50	49	01497
ABS 50	A32 40050	16	65	48,0	50	52	01697
ABS 50	A32 40090	18	65	49,9	50	52	01897
ABS 50	A32 40060	20	65	52,0	50	54	02097
ABS 50	A32 40070	25	75	65,0	60	60	02597
ABS 63	A32 50040	12	65	42,0	50	49	01296
ABS 63	A32 50100	14	65	44,0	50	49	01496
ABS 63	A32 50050	16	65	48,0	50	52	01696
ABS 63	A32 50110	18	65	50,0	50	52	01896
ABS 63	A32 50060	20	65	52,0	45	54	02096
ABS 63	A32 50070	25	75	65,0	60	60	02596
ABS 63	A32 50080	32	80	72,0	65	64	03296
ABS 80	A32 60060	20	65	52,0	45	54	02092
ABS 80	A32 60070	25	75	65,0	55	60	02592
ABS 80	A32 60080	32	80	72,0	66	64	03292



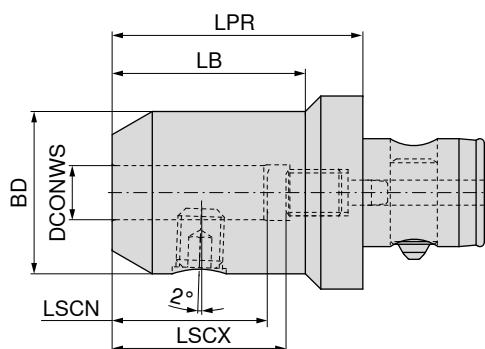
62 950 ...

Spare parts
DCONWS

6	M6x10	006
8	M8x10	008
10	M10x12	010
12	M12x16	012
14	M12x16	012
16	M14x16	016
18	M14x16	016
20	M16x16	020
25	M18x2x20	025
32	M20x2x20	032

Cylindrical Shank Adapter (Whistle Notch)

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



84 220 ...

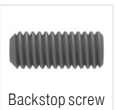
Adapter	KOMET no.	DCONWS mm	LPR mm	LB mm	BD mm	LSCX mm	LSCN mm	
ABS 25	A30 10601	6	55	40	24,9	36	26	00690
ABS 25	A30 10801	8	55	40	28,0	36	26	00890
ABS 25	A30 11001	10	60	45	35,0	40	30	01090
ABS 32	A30 20601	6	55	40	25,0	36	26	00689
ABS 32	A30 20801	8	55	40	28,0	36	26	00889
ABS 32	A30 20901	9	55	40	28,0	36	26	00989
ABS 32	A30 21001	10	60	45	35,0	40	30	01089
ABS 32	A30 21201	12	65	50	42,0	45	35	01289
ABS 32	A30 21401	14	65		42,0	45	35	01489
ABS 40	A30 30601	6	55	35	25,0	36	26	00688
ABS 40	A30 30801	8	55	35	28,0	36	26	00888
ABS 40	A30 31001	10	60	45	35,0	40	30	01088
ABS 40	A30 31201	12	65	50	42,0	45	35	01288
ABS 40	A30 31401	14	65	50	42,0	45	35	01488
ABS 40	A30 31601	16	70	55	48,0	48	38	01688
ABS 40	A30 31801	18	70	55	48,0	48	38	01888
ABS 50	A30 40601	6	55	30	25,0	36	26	00697
ABS 50	A30 40801	8	55	30	28,0	36	26	00897
ABS 50	A30 41001	10	60	40	35,0	40	30	01097
ABS 50	A30 41201	12	65	50	42,0	45	35	01297
ABS 50	A30 41301	13	65	50	42,0	45	35	01397
ABS 50	A30 41401	14	65	50	42,0	45	35	01497
ABS 50	A30 41601	16	70	55	48,0	48	38	01697
ABS 50	A30 41801	18	70	55	48,0	48	38	01897
ABS 50	A30 42002	20	75	60	52,0	50	40	02097
ABS 50	A30 42202	22	75	60	52,0	50	40	02297
ABS 50	A30 42502	25	75	60	52,0	50	40	02597
ABS 63	A30 51001	10	60	35	35,0	40	30	01096
ABS 63	A30 51201	12	65	45	42,0	45	35	01296
ABS 63	A30 51401	14	65	45	42,0	45	35	01496
ABS 63	A30 51601	16	70	50	48,0	48	38	01696
ABS 63	A30 51801	18	70	50	48,0	48	38	01896
ABS 63	A30 52001	20	75	55	52,0	50	40	02096
ABS 63	A30 52501	25	80	65	65,0	56	46	02596
ABS 63	A30 52801	28	80	65	65,0	56	46	02896
ABS 80	A30 62501	25	80	60	65,0	56	46	02592
ABS 80	A30 63201	32	90	70	72,0	60	50	03292

Spare parts

cylindrical shank adapter (Whistle Notch) with ABS connection



Grubscrew



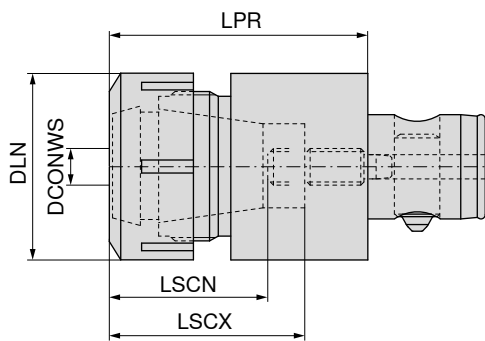
Backstop screw

			62 950 ...	84 950 ...
Spare parts				
DCONWS				
6	M6x10	006	M5x16	20500
8	M8x10	008	M6x16 - SW2,5	20600
9	M8x10	008	M8x1x16 - SW3	20800
10	M10x12	010	M8x1x16 - SW2,5	20700
12	M12x16	012	M10x1x18 - SW3	20900
13	M12x16	012	M12x1x17 - SW3	21000
14	M12x16	012	M12x1x17 - SW3	21000
16	M14x16	016	M14x1x19 - SW4	21100
18	M14x16	016	M14x1x19 - SW4	21100
20	M16x16	020	M16x1x21 - SW5	21200
22	M16x16	020	M16x1x21 - SW5	21200
25	M16x16	020	M16x1x21 - SW5	21200
28	M18x2x20	025	M16x1x21 - SW5	21200
32	M20x2x20	032	M20x1x27 - SW8	21300

ER collet chuck with ABS connection

Scope of supply:

Holder with lock nut and adjustable back stop



84 224 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm	
ABS 25	A33 11120	1 - 10	40,1	28	31	28	01690
ABS 32	A33 12130	1 - 13	52,5	34	39	35	02089
ABS 40	A33 13141	1 - 16	62,0	42	46	43	02588
ABS 50	A33 14151	2 - 20	69,3	50	51	48	03297
ABS 63	A33 15161	3 - 26	78,3	63	55	52	04096



Lock nut



Lock nut IK



Lock nut



Backstop screw

62 950 ...

83 950 ...

62 950 ...

84 950 ...

Spare parts

1 - 10	M22x1,5 - SW25	044	M22x1,5	054		M5x8 - SW2	22500		
1 - 13	M25x1,5 - SW30		045	M25x1,5	053		M6x12 - SW2,5	22000	
1 - 16				M32x1,5	055	M32x1,5	055	M8x1x14 - SW4	22600
2 - 20				M40x1,5	056	M40x1,5	056	M10x1x14 - SW5	22700
3 - 26				M50x1,5	057	M50x1,5	057	M12x1x18 - SW8	22800

Accessories

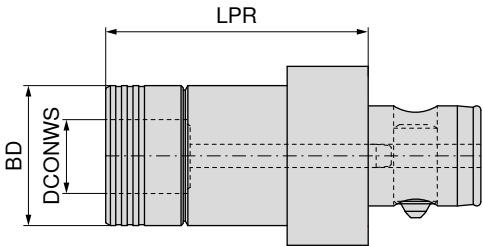


ER collet

→ 256-266

Quick change tap chuck with length compensation

▲ With length compensation under tension and compression (LZD)



84 225 ...

Adapter	KOMET no.	DCONWS mm	BD mm	LPR mm	
ABS 32	A34 32060	19	39	69	01989
ABS 40	A34 33060	19	39	73	01988
ABS 50	A34 34060	19	39	72	01997
ABS 50	A34 34070	31	60	98	03197
ABS 63	A34 35070	31	60	111	03196

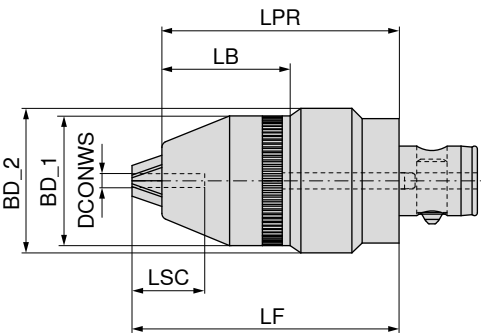
Accessories

		
Collet	Pull studs	Others
→ 277-281	→ 57	→ 273

Short drill chuck

Scope of supply:

Holder with clamping key

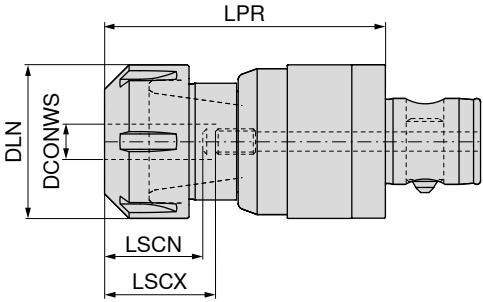


G 6.3 n_{max} 6500

84 227 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSC mm	LF mm	LB mm	
ABS 50	A34 24030	0,5 - 13	95	49	57,5	29	104,0	51,5	01397
ABS 50	A34 24040	3 - 16	95	52	57,5	29	104,7	52,0	01697

Synchro tapping chuck



84 226 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm	
ABS 32	50795131002000	1 - 13	78,0	34	42	29	02089
ABS 50	50795135002000	1 - 13	85,0	34	42	29	02097
ABS 50	50795135003200	2 - 20	90,5	50	45	31	03297

Accessories



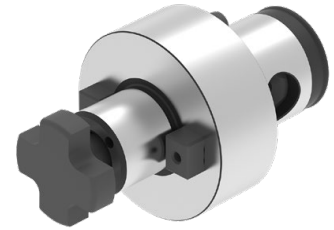
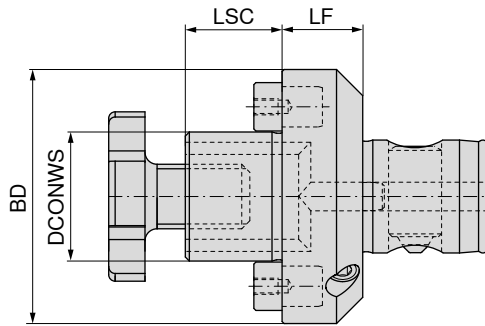
ER collet

→ 261-264

Shell mill adapter

Scope of supply:

Base body including drive dogs and retaining screw



Adapter	KOMET no.	DCONWS mm	LSC mm	LF mm	BD mm
ABS 50	A40 24023	16	17	20	50
ABS 50	A40 24034	22	19	20	50
ABS 50	A40 24043	27	21	20	50
ABS 50	A40 24053	32	24	20	63
ABS 63	A40 25032	22	19	22	63
ABS 63	A40 25042	27	21	22	63
ABS 63	A40 25052	32	24	22	63
ABS 63	A40 25062	40	27	22	80
ABS 80	A40 26042	27	21	25	80
ABS 80	A40 26052	32	24	25	80
ABS 80	A40 26062	40	27	25	80
ABS 80	A40 16062	40	30	43	88
ABS 100	A40 27052	32	24	25	100
ABS 100	A40 17062	40	30	38	88
ABS 100	A40 27062	40	27	25	100
ABS 100	A40 17072	60	40	56	130

84 228 ...

84 228 ...

01697
02297
02797
03297

02296
02796
03296
04096

02792
03292
04092

14092

14091

06091

03291
04091



Drive screw



Drive dog



Driver



Retaining screw

81 950 ...

84 950 ...

83 950 ...

83 367 ...

Spare parts

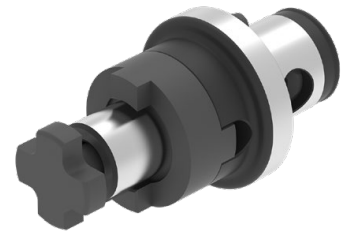
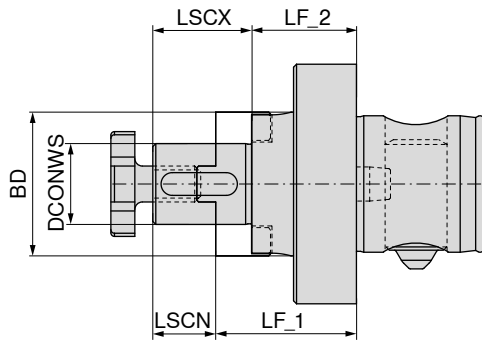
16	M3x8	010				M8	016
22			13,6x8x10	22900		M10	022
27			14,3x9x12	23000		M12	027
32			17x12x14	23100		M16	032
40	M6x16	014		15,9x16,3x19,5	295		
40						M20	040
60	M12x25	015		25,4x16,3x26,5	298		

Combination shell mill adapter

▲ 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



NEW



84 229 ...

Adapter	KOMET no.	DCONWS mm	BD mm	LF_1 mm	LF_2 mm	LSCX mm	LSCN mm	
ABS 50	A40 04022	16	32	32	22	27	17	01697
ABS 50	A40 04032	22	40	34	22	31	19	02297
ABS 63	A40 05021	16	32	36	26	27	17	01696
ABS 63	A40 05031	22	40	38	26	31	19	02296
ABS 63	A40 05041	27	48	38	26	33	21	02796
ABS 80	A40 06031	22	40	45	33	31	19	02292
ABS 80	A40 06041	27	48	45	33	33	21	02792
ABS 80	A40 06051	32	58	47	33	38	24	03292
ABS 80	A40 06061	40	70	47	33	41	27	04092



Parallel key



Drive ring



Retaining screw

83 950 ...

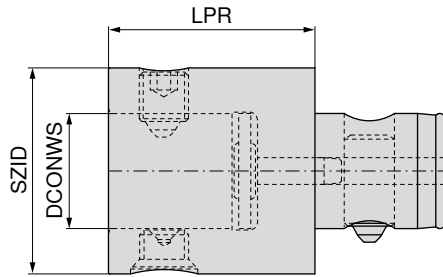
83 370 ...

83 367 ...

Spare parts

DCONWS					
16	4 x 4 x 20	284	116	M8	016
22	6 x 6 x 25	285	122	M10	022
27	7 x 7 x 25	286	127	M12	027
32	8 x 7 x 28	287	132	M16	032
40	10 x 8 x 32	288	140	M20	040

Extension with ABS Connection



84 209 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	
ABS 25	A20 00020	ABS 25	13	45	04590
ABS 25	A20 00220	ABS 25	13	60	06090
ABS 32	A20 00530	ABS 32	16	35	03589
ABS 32	A20 00030	ABS 32	16	50	05089
ABS 32	A20 00230	ABS 32	16	70	07089
ABS 40	A20 00540	ABS 40	20	40	04088
ABS 40	A20 00040	ABS 40	20	60	06088
ABS 40	A20 00240	ABS 40	20	90	09088
ABS 50	A20 00550	ABS 50	28	50	05097
ABS 50	A20 00050	ABS 50	28	65	06597
ABS 50	A20 00250	ABS 50	28	100	10097
ABS 50	A20 00150	ABS 50	28	150	15097
ABS 63	A20 00560	ABS 63	34	60	06096
ABS 63	A20 00060	ABS 63	34	85	08596
ABS 63	A20 00260	ABS 63	34	125	12596
ABS 63	A20 00160	ABS 63	34	190	19096
ABS 80	A20 00570	ABS 80	46	70	07092
ABS 80	A20 00070	ABS 80	46	85	08592
ABS 80	A20 00270	ABS 80	46	125	12592
ABS 80	A20 00170	ABS 80	46	240	24092
ABS 100	A20 00580	ABS 100	56	85	08591
ABS 100	A20 00080	ABS 100	56	125	12591
ABS 100	A20 00280	ABS 100	56	160	16091
ABS 125	A20 00090	ABS 125	70	160	16085
ABS 125	A20 00290	ABS 125	70	200	20085



Clamping screw

62 950 ...



Clamping screw

84 950 ...



Set

84 950 ...



Set

84 950 ...



Positioning pin

84 950 ...



Pendulum bolt

84 950 ...



Coolant pipe

84 950 ...



Taper screw

84 950 ...

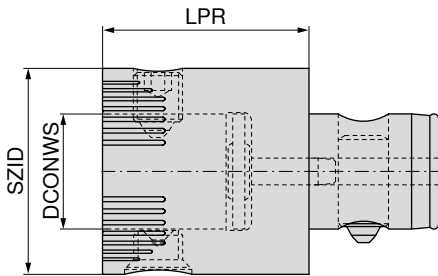
Spare parts
Adapter

ABS 25							
ABS 32	13989						
ABS 40		26800	98900	99700	23600	26000	27000
ABS 50		26900	98700	99500	23800	26200	27200
ABS 63		20300	99900	99800	20200	20000	20400
ABS 80		25500	98600	99400	23900	26300	27300
ABS 100		25600	98500	99300	24000	26400	25100
ABS 125		25700	98400	99200	24100	26500	25200
		25800	98300	99100	24200	26600	25300

Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc



84 216 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm
ABS 50	A20 00651	ABS 50	28	50
ABS 63	A20 00661	ABS 63	34	60
ABS 80	A20 00670	ABS 80	46	70

05097

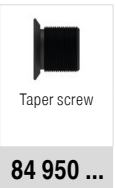
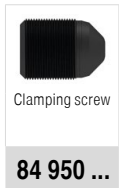
06096

07092

Spare parts

SZID

ABS 50	20300	99800	20400
ABS 63	25500	99400	27300
ABS 80	25600	99300	25100

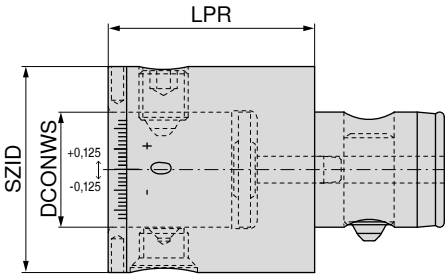


Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:

Eccentric adjuster with adjuster key $\varnothing 2.8$ mm



84 217 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm
ABS 50	A20 00620	ABS 50	28	50
ABS 63	A20 00630	ABS 63	34	60

05097

06096

Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...
20300	99800	20400
25500	99400	27300

Spare parts

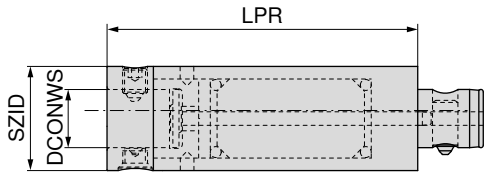
SZID

ABS 50

ABS 63

Damping element with ABS connection

▲ Reduction in undesirable tool vibrations



84 218 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	
ABS 40	A20 01240	ABS 40	20	120	12088
ABS 50	A20 01250	ABS 50	28	150	15097
ABS 63	A20 01260	ABS 63	34	190	19096
ABS 80	A20 01270	ABS 80	46	240	24092

Spare parts

SZID			
ABS 40	26900	99500	27200
ABS 50	20300	99800	20400
ABS 63	25500	99400	27300
ABS 80	25600	99300	25100



Clamping screw

84 950 ...



Set

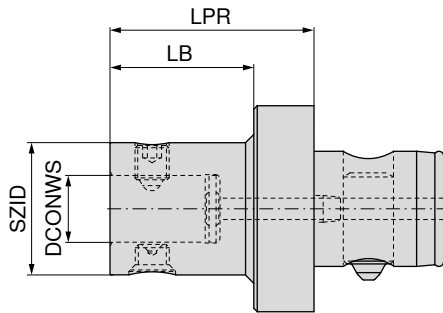
84 950 ...



Taper screw

84 950 ...

ABS reduction

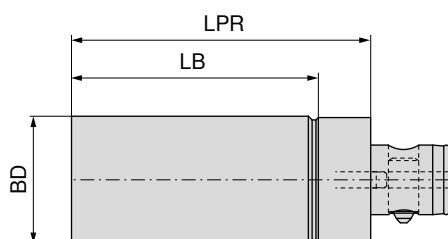


						84 219 ...
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	
ABS 32	A20 10120	ABS 25	13	40	30	03290
ABS 40	A20 10220	ABS 25	13	40	28	04090
ABS 40	A20 10230	ABS 32	16	40	28	04089
ABS 50	A20 10320	ABS 25	13	50	35	05090
ABS 50	A20 10330	ABS 32	16	50	35	05089
ABS 50	A20 10340	ABS 40	20	50	35	05088
ABS 63	A20 10420	ABS 25	13	60	40	06390
ABS 63	A20 10430	ABS 32	16	60	40	06389
ABS 63	A20 10440	ABS 40	20	60	40	06388
ABS 63	A20 10450	ABS 50	28	60	40	06397
ABS 80	A20 10530	ABS 32	16	60	35	08089
ABS 80	A20 10540	ABS 40	20	60	35	08088
ABS 80	A20 10550	ABS 50	28	60	35	08097
ABS 80	A20 10560	ABS 63	34	60	35	08096
ABS 100	A20 10650	ABS 50	28	80	50	10097
ABS 100	A20 10660	ABS 63	34	80	50	10096
ABS 100	A20 10670	ABS 80	46	80	50	10092
ABS 125	A20 10770	ABS 80	46	100	50	12592
ABS 125	A20 10780	ABS 100	56	100	50	12591

	 Clamping screw	 Clamping screw	 Set	 Taper screw
Spare parts	62 950 ...	84 950 ...	84 950 ...	84 950 ...
SZID				
ABS 25		26800	99700	27000
ABS 32	13989		99600	27100
ABS 40		26900	99500	27200
ABS 50		20300	99800	20400
ABS 63		25500	99400	27300
ABS 80		25600	99300	25100
ABS 100		25700	99200	25200

Blank with ABS connection

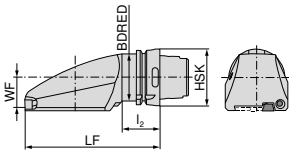
- ▲ Connection area hardened and ground
- ▲ Dimension BD x dimension LB = unhardened area for further processing



84 230 ...

Adapter	KOMET no.	LPR mm	BD mm	LB mm	
ABS 25	B10 01011	70	26	55	02690
ABS 32	B10 02011	80	33	65	03389
ABS 40	B10 03011	100	41	82	04188
ABS 50	B10 04011	120	51	99	05197
ABS 63	B10 05011	150	64	124	06496
ABS 80	B10 06011	180	81	145	08192
ABS 100	B10 07011	200	101	158	10191

MonoClamp – HSK-T Blade Holder GX/LX/FX/SX

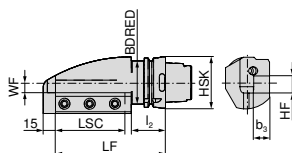


Illustrations show right-hand versions

ISO designation	Adapter	LF mm	I ₂ mm	BDRED mm	WF mm	for parting blades	Left-hand	Right-hand
							74 585 ...	74 584 ...
HSK T63 XCLCF 32 R/L 00	HSK-T 63	150	42	53	32	XLCF R/L 32...	532	532
HSK T100 XCLCF 32 R/L 00	HSK-T 100	160	45	88	45	XLCF R/L 32...	732	732

							
		Protection plugs	Nozzle	Key D	Clamping wedge	Hollow key with nose	
		70 950 ...	70 950 ...	80 950 ...	70 950 ...	70 950 ...	
Spare parts for Article no.							
74 584 532 / 74 585 532	UNJF 7/16"-20	05600	05500	T25	115	860	05700
74 584 732 / 74 585 732	UNJF 7/16"-20	05600	05500	T25	115	860	05700

HSK-T square shank adapter 0°

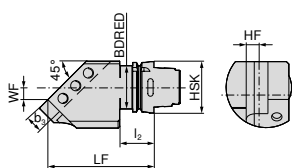


Illustrations show right-hand versions



ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	LSC mm	b ₃ mm	HF mm	Left-hand	Right-hand
									74 571 ...	74 570 ...
HSK T63 SH R/L 00 2525	HSK-T 63	135	42	53	13	85,5	25	25	525	532
HSK T100 SH R/L 00 3232	HSK-T 100	145	45	88	15	87,5	32	32	725	732

HSK-T square shank adapter 45°

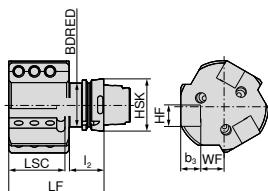


Illustrations show right-hand versions

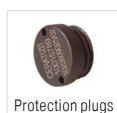


ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	b ₃ mm	HF mm	Left-hand	Right-hand
								74 573 ...	74 572 ...
HSK T63 SH R/L 45 2525	HSK-T 63	140	42	53	15	25	25	525	525
HSK T100 SH R/L 45 3232	HSK-T 100	160	45	88	20	32	32	732	732

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	Left-hand
									74 576 ...
HSK T63 SH3 L 00 2525	HSK-T 63	115	42	53	28	68	25	25	525
HSK T100 SH3 L 00 2525	HSK-T 100	120	45	88	33	70	25	25	725



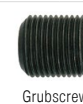
70 950 ...



70 950 ...



70 950 ...



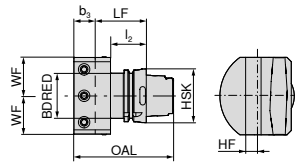
70 950 ...

Spare parts

Adapter

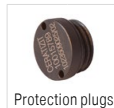
HSK-T 100	UNJF 7/16"-20	05600	UNJF 7/16"-20	05500	05700	M12x1,75x25	851
HSK-T 63	UNJF 7/16"-20	05600	UNJF 7/16"-20	05500	05700	M12x1,75x25	851

HSK-T square shank adapter 90°



Neutral
74 575 ...

ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	OAL mm	HF mm	b ₃ mm	
HSK T63 SH N 90 2525	HSK-T 63	60	42	53	45	85	25	25	525
HSK T100 SH N 90 3232	HSK-T 100	58	45	88	50	90	32	32	732



70 950 ...



70 950 ...



70 950 ...



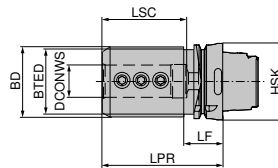
70 950 ...

Spare parts

Adapter

HSK-T 100		UNJF 7/16"-20	05600	UNJF 7/16"-20	05500	05700	M12x1,75x25	851
HSK-T 63		UNJF 7/16"-20	05600	UNJF 7/16"-20	05500	05700	M12x1,75x25	851

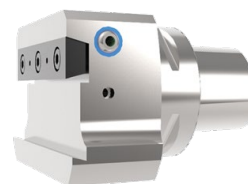
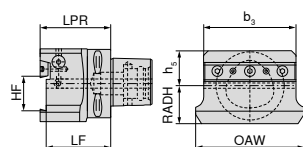
HSK-T Boring bar holder



74 577 ...

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

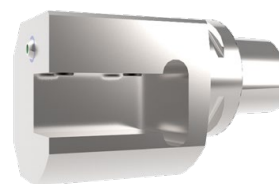
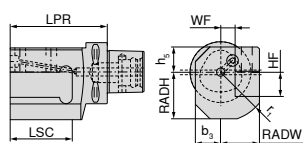
Radial parting blade holder, right / left

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	88

626
632

Square section adapter, single face



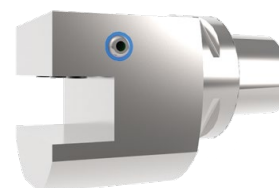
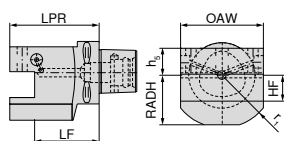
Illustrations show right-hand versions

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
84 611 ...Right-hand
84 610 ...

520	520
525	525
532	532
620	620
625	625
632	632
820	820
825	825
832	832

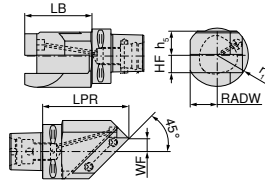
Square section adapter

Neutral
84 602 ...

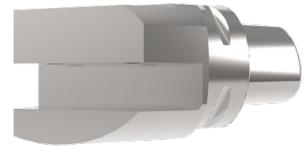
Adapter	HF mm	LPR mm	OAW mm	r ₁ mm	RADH mm	h ₅ mm	LF mm
PSC 50	20	70	70	45	43	26	50
PSC 50	25	80	80	51	48	26	55
PSC 50	32	90	90	61	55	26	58
PSC 63	20	80	70	45	43	26	60
PSC 63	25	90	80	51	48	26	65
PSC 63	32	100	90	61	55	26	68
PSC 80	20	80	70	45	43	26	60
PSC 80	25	90	80	51	48	26	65
PSC 80	32	100	90	61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

520
525
532
620
625
632
820
825
832

Square section adapter 45°



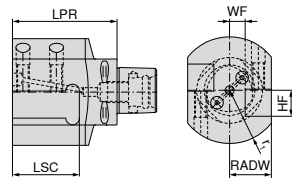
Illustrations show right-hand versions



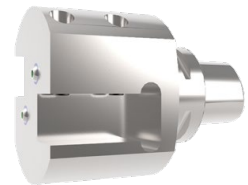
Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	h ₅ mm	LB mm
PSC 50	20	100	31	36	15	26	80
PSC 63	20	100	32	36	15	28	78
PSC 80	32	135	45	70	17	40	105

Left-hand 84 605 ...	Right-hand 84 604 ...
520	520
620	620
832	832

Square section adapter, double face



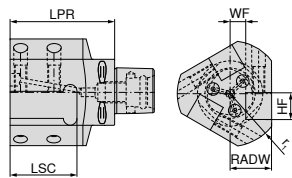
Illustrations show right-hand versions



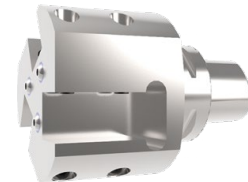
Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	LSC mm
PSC 50	20	80	35	45	15	53
PSC 50	25	90	40	51	15	64
PSC 50	32	115	47	61	15	90
PSC 63	20	90	35	45	15	53
PSC 63	25	100	40	51	15	64
PSC 63	32	125	47	61	15	90
PSC 80	20	90	35	45	15	53
PSC 80	25	100	40	51	15	64
PSC 80	32	125	47	61	15	90

Left-hand 84 613 ...	Right-hand 84 612 ...
520	520
525	525
532	532
620	620
625	625
632	632
820	820
825	825
832	832

Square section adapter, triple face



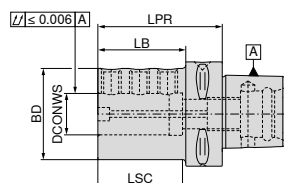
Illustrations show right-hand versions



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 84 615 ...	Right-hand 84 614 ...
520	520
525	525
532	532
620	620
625	625
632	632
820	820
825	825
832	832

Boring bar holder



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



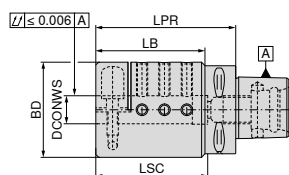
Grubscrew

Spare parts
DCONWS

			84 950 ...
6	M6x16		153
8	M8x16		154
10	M10x16		155
12 - 40	M12x14		156

Boring bar adapter, split version

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

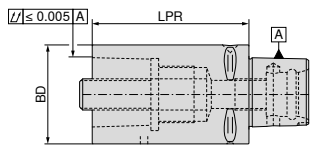


						84 131 ...
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	
PSC 63	6	80	40	58	60	606
PSC 63	8	85	45	63	65	608
PSC 63	10	85	50	63	65	610
PSC 63	12	100	63	78	80	612
PSC 63	16	100	63	78	80	616
PSC 63	20	100	68	78	80	620
PSC 63	25	100	68	78	80	625
PSC 63	32	100	72	78	80	632

				Grubscrew	Grubscrew	Stop screw IK
				83 950 ...	84 950 ...	81 950 ...
Spare parts						
DCONWS						
6						M5x15
8				M6x20		
10					M6x16	
12 - 20				M8x20		
25				M8x25		
32				M10x20		
				462	153	050
				468		
				467		
				471		

Extension, axial clamping

▲ Run out ≤ 0,002mm



			84 620 ...
Adapter	BD mm	LPR mm	
PSC 32	32	60	301
PSC 32	32	80	302
PSC 40	40	60	401
PSC 40	40	80	402
PSC 50	50	80	501
PSC 50	50	100	502
PSC 63	63	100	601
PSC 63	63	140	602
PSC 80	80	100	801
PSC 80	80	125	802

 Threaded ring		 tightening screw	
84 950 ...		84 950 ...	
PSC 32	127	SW8	122
PSC 40	128	SW8	123
PSC 50	129	SW10	124
PSC 63	130	SW14	126
PSC 80	130	SW14	126

Spare parts

Adapter

PSC 32
PSC 40
PSC 50
PSC 63
PSC 80

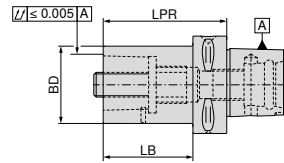
Accessories



Hollow nose keys
 → 208

Cylindrical reduction

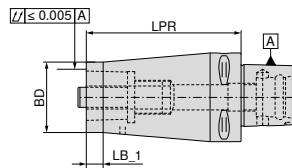
▲ Run out ≤ 0,002mm



Adapter	BD mm	LPR mm	LB mm	84 624 ...
PSC 40	32	55	35	403
PSC 50	32	60	40	503
PSC 50	40	65	45	504
PSC 63	32	70	48	603
PSC 63	40	80	58	604
PSC 63	50	80	58	605
PSC 80	32	60	30	803
PSC 80	40	70	40	804
PSC 80	50	80	50	805
PSC 80	63	80	50	806
PSC 80X	63	80	48	816
PSC 80X	80	100	68	818

Tapered reduction

▲ Run out ≤ 0,002mm



Adapter	BD mm	LPR mm	LB_1 mm	84 625 ...
PSC 40	32	70	12	403
PSC 50	40	85	12	504
PSC 63	50	110	12	605
PSC 80	63	120	12	806
PSC 80X	80	150	12	818

Spare parts

Adapter

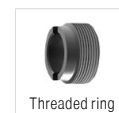
PSC 40	128	SW8	123
PSC 50	129	SW10	124
PSC 63	130	SW14	126
PSC 80	130	SW14	126
PSC 80X	130	SW14	126

Accessories



Hollow nose keys

→ 208



Threaded ring

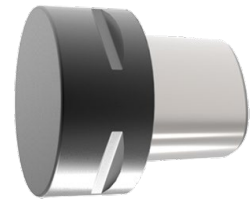
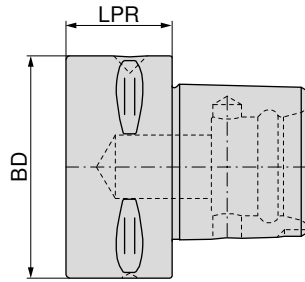


tightening screw

84 950 ...

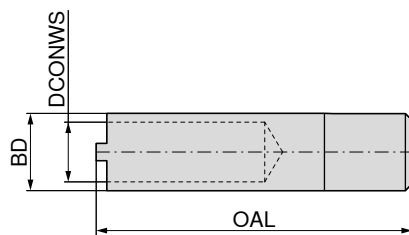
84 950 ...

Sealing plugs



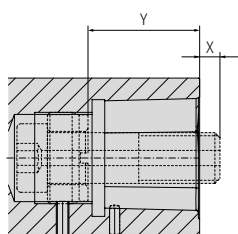
Adapter	BD mm	LPR mm	84 135 ...
PSC 40	40	28	040
PSC 50	50	28	050
PSC 63	63	30	060
PSC 80	80	38	080

Hollow nose key for clamping screw for PSC extensions and reductions



Adapter	BD mm	OAL mm	DCONWS mm	84 651 ...
PSC 32	16	80	12,5	032
PSC 40	20	80	15,0	040
PSC 50	22	90	17,0	050
PSC 63/80/80X	34	110	21,0	063

Installation instructions: clamping screw for PSC extensions and reductions

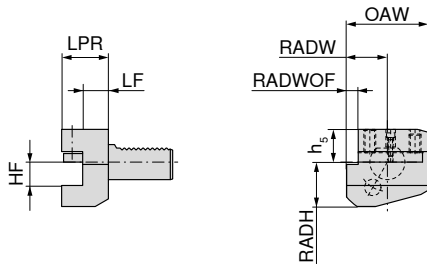


X = Screw leading edge
Y = Threaded ring insertion depth

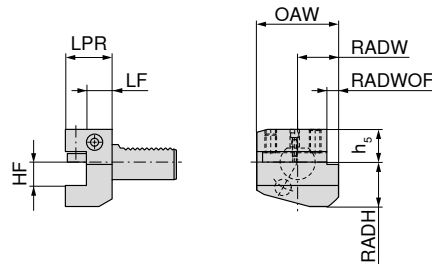
Threaded ring secured with threaded pin DIN 914.
Drilled threaded ring !

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 tool holders, short



B2



B1

B2

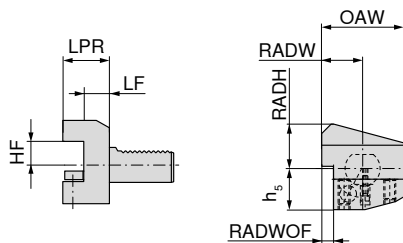
B1



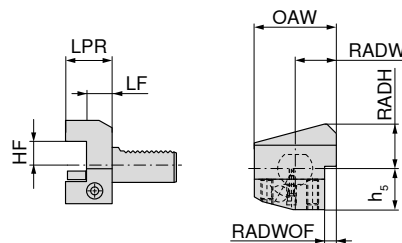
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	Left-hand 82 189 ...	Right-hand 82 185 ...
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24	160	160
VDI 16	12	42	23,0	5,0	20,0	22	23,0	34	161	
VDI 20	16	55	30,0	7,0	25,0	30	16,0	30	200	200
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	201	201
VDI 20	16	55	30,0	7,0	25,0	30	18,0	30	202 ¹⁾	202 ¹⁾
VDI 20	16	55	30,0	7,0	25,0	30	25,5	40	203 ¹⁾	203 ¹⁾
VDI 25	16	55	30,0	7,0	25,0	30	16,0	30	250	250
VDI 30	20	70	35,0	10,0	28,0	38	18,5	40	300	300
VDI 30	20	70	35,0	10,0	28,0	35	32,0	50	301	302 ¹⁾
VDI 30	20	70	35,0	10,0	28,0	38	42,0	60	301	301
VDI 40	25	85	42,5	12,5	32,5	48	18,5	44	400	400
VDI 50	32	100	50,0	16,0	35,0	60	30,0	55	500	500

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, short



B4



B3

B4

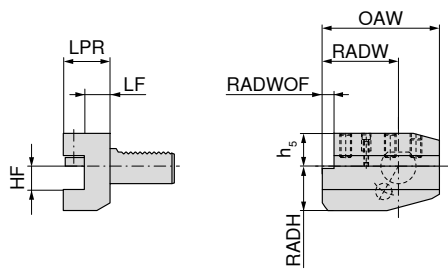
B3



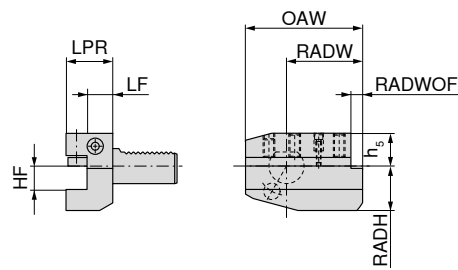
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	Left-hand 82 196 ...	Right-hand 82 193 ...
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24		160
VDI 20	16	55	30,0	7,0	25,0	30	16,0	30	200	200
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	201	201
VDI 20	16	55	30,0	7,0	25,0	30	18,5	30	202 ¹⁾	202 ¹⁾
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	203 ¹⁾	203 ¹⁾
VDI 25	16	55	30,0	7,0	25,0	30	16,0	30	250	250
VDI 30	20	70	35,0	10,0	35,0	38	42,0	60	301	301
VDI 30	20	70	35,0	10,0	35,0	38	18,5	40	300	300
VDI 40	25	85	42,5	12,5	42,5	48	18,5	44	400	400
VDI 50	32	100	50,0	16,0	50,0	60	30,0	55	500	500

1) Height adjustable +/- 1 mm

Radial tool holders, long



B6



B5

B6

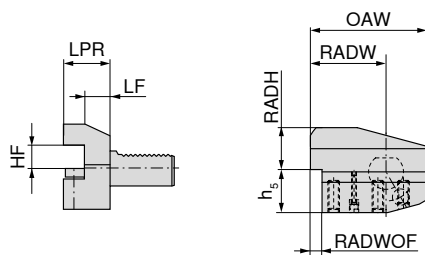
B5



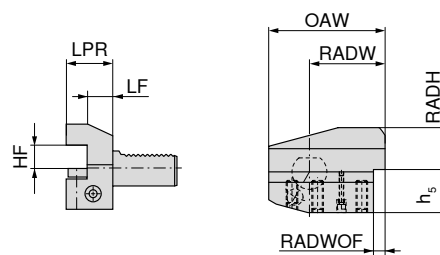
Adapter	HF mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
									82 202 ...		82 199 ...	
VDI 20	16	75	50,0	7,0	25,0	30	16,0	30	200		200	
VDI 20	16	75	50,0	7,0	25,0	30	26,0	40	201		201	
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30			202 ¹⁾	
VDI 30	20	100	65,0	10,0	28,0	38	18,5	40	300		300	
VDI 30	20	100	65,0	10,0	28,0	38	42,0	60	301		301	
VDI 40	25	118	75,5	12,5	32,5	48	18,5	44	400		400	
VDI 50	32	130	80,0	16,0	35,0	60	30,0	55	500		500	

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, long



B8



B7

B8

B7

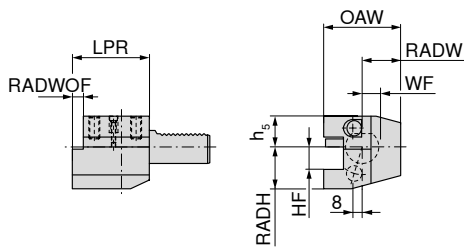


Adapter	HF mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
									82 208 ...		82 205 ...	
VDI 20	16	75	50,0	7,0	25,0	30	16,0	30	200		200	
VDI 20	16	75	50,0	7,0	25,0	30	26,0	40			201	
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30			202 ¹⁾	
VDI 30	20	100	65,0	10,0	35,0	38	18,5	40	300		300	
VDI 30	20	100	65,0	10,0	35,0	38	42,0	60			301	
VDI 40	25	118	75,5	12,5	42,5	48	18,5	44	400		400	
VDI 50	32	130	80,0	16,0	50,0	60	30,0	55	500		500	

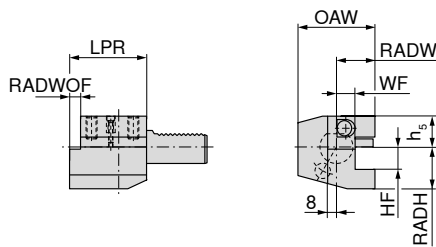
1) Height adjustable +/- 1 mm

You can find spare parts on → **Page 254**

Axial tool holders



C2



C1

C2

C1

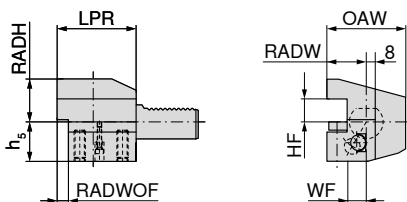


Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	WF 0/+0,3 mm	h ₅ mm	RADH mm	LPR mm
VDI 16	12	43	24,0	13,0	20,0	22	44
VDI 20	16	65	40,0	26,0	25,0	30	50
VDI 20	16	65	40,0	25,5	25,0	30	50
VDI 20	16	52	27,0	13,0	25,0	30	55
VDI 25	16	58	33,0	19,0	25,0	30	55
VDI 30	20	70	35,0	17,0	28,0	38	70
VDI 30	20	76	41,0	23,0	28,0	38	70
VDI 40	25	90	47,5	25,5	32,5	48	85
VDI 40	25	85	42,5	20,5	32,5	48	85
VDI 50	32	100	50,0	25,5	35,0	60	100
VDI 50	32	105	55,0	30,5	35,0	60	100

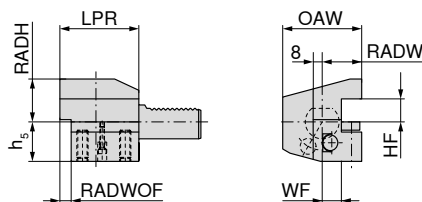
1) Height adjustable +/- 1 mm

Left-hand 82 214 ...	Right-hand 82 211 ...
	160
200	201 202 ¹⁾ 200
250	250
300	300
400	400
500	500

Axial tool holders, overhead



C4



C3

C4

C3

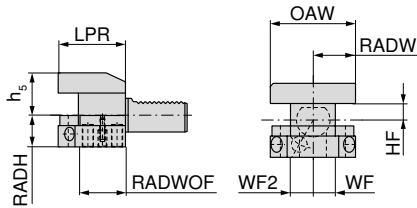


Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	WF 0/+0,3 mm	h ₅ mm	RADH mm	LPR mm
VDI 16	12	43	24,0	13,0	20,0	22	44
VDI 20	16	65	40,0	26,0	25,0	30	50
VDI 20	16	65	40,0	25,5	30,0	25	50
VDI 20	16	65	40,0	25,5	25,0	30	50
VDI 20	16	52	27,0	13,0	25,0	30	55
VDI 25	16	58	33,0	19,0	25,0	30	55
VDI 30	20	70	35,0	17,0	35,0	38	70
VDI 30	20	76	41,0	23,0	35,0	38	70
VDI 40	25	85	42,5	20,5	42,5	48	85
VDI 40	25	90	47,5	25,5	42,5	48	85
VDI 50	32	100	50,0	25,5	50,0	60	100
VDI 50	32	105	55,0	30,5	50,0	60	100

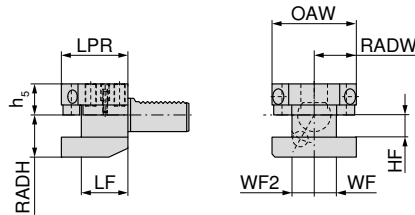
1) Height adjustable +/- 1 mm

Left-hand 82 220 ...	Right-hand 82 217 ...
	160
200	201 202 ¹⁾ 200
201 ¹⁾	200
250	250
300	300
400	400
500	500

Multiple tool holders



D2



D1

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
VDI 25	16	33,0	19,0	19,0	66	22,0	30	34	48
VDI 25	16	33,0	19,0	19,0	66	25,0	30	34	48
VDI 30	20	35,0	17,0	23,0	76	28,0	38	42	60
VDI 30	20	35,0	17,0	23,0	76	35,0	38	42	60
VDI 40	25	42,5	20,5	25,5	90	32,5	48	50	72
VDI 40	25	42,5	20,5	25,5	90	42,5	48	50	72

82 224 ...

82 222 ...

250

250

300

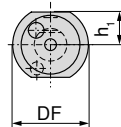
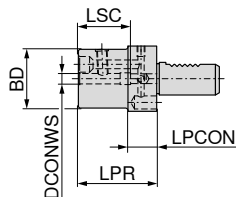
300

400

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

83 269 ...

Adapter	DCONWS mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm
VDI 20	6	50	45	23,0	60	22	40
VDI 20	8	50	45	23,0	60	22	40
VDI 20	10	50	45	23,0	60	22	44
VDI 20	12	50	45	23,0	60	22	49
VDI 20	14	50	45	23,0	62	22	49
VDI 20	16	50	45	23,0	67	22	52
VDI 20	18	50	45	23,0	67	22	52
VDI 20	20	50	45	23,0	67	22	52
VDI 30	6	68	52	28,0	67	22	35
VDI 30	8	68	52	28,0	67	22	35
VDI 30	10	68	52	28,0	67	22	39
VDI 30	12	68	52	28,0	67	22	44
VDI 30	14	68	52	28,0	67	22	44
VDI 30	16	68	52	28,0	67	22	47
VDI 30	18	68	52	28,0	67	22	47
VDI 30	20	68	52	28,0	67	22	52
VDI 40	6	83	52	32,5	67	22	35
VDI 40	8	83	52	32,5	67	22	35
VDI 40	10	83	52	32,5	67	22	39
VDI 40	12	83	52	32,5	67	22	44
VDI 40	14	83	52	32,5	67	22	44
VDI 40	16	83	52	32,5	67	22	47
VDI 40	18	83	52	32,5	67	22	47
VDI 40	20	83	52	32,5	67	22	52

206

208

210

212

214

216

218

220

306

308

310

312

314

316

318

320

406

408

410

412

414

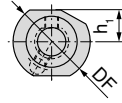
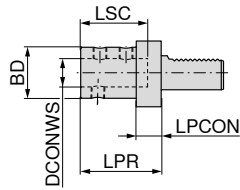
416

418

420

Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply



E1



AD

82 274 ...

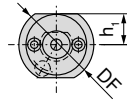
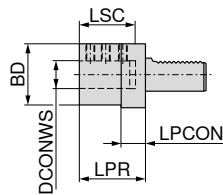
Adapter	DCONWS _{H6} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	
VDI 20	16	50	36	23,0	67	18	54	200
VDI 20	20	50	40	23,0	67	18	54	201
VDI 20	25	50	45	23,0	71	18	59	202
VDI 25	16	58	36	25,0	67	18	54	250
VDI 25	20	58	40	25,0	67	18	54	251
VDI 25	25	58	45	25,0	71	18	59	252
VDI 30	16	68	36	28,0	67	22	54	300
VDI 30	20	68	40	28,0	67	22	54	301
VDI 30	25	68	45	28,0	71	22	59	302
VDI 30	32	68	52	28,0	75	22	63	303
VDI 30	40	68	60	28,0	87	22	73	304
VDI 40	16	83	36	32,5	67	22	54	400
VDI 40	20	83	40	32,5	67	22	54	401
VDI 40	25	83	45	32,5	75	22	59	402
VDI 40	32	83	52	32,5	75	22	63	403
VDI 40	40	83	60	32,5	90	22	73	404
VDI 50	20	98	40	35,0	80	30	54	500
VDI 50	25	98	45	35,0	80	30	59	501
VDI 50	32	98	52	35,0	80	30	63	502
VDI 50	40	98	60	35,0	90	30	73	503
VDI 50	50	98	70	35,0	100	30	83	504



You can find spare parts on → Page 254

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 ...

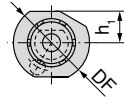
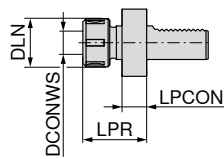
Adapter	DCONWS _{H7} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	
VDI 16	6	40	32	18,0	44	13	34	160 ¹⁾
VDI 16	8	40	32	18,0	44	13	34	161 ¹⁾
VDI 16	10	40	32	18,0	44	13	34	162 ¹⁾
VDI 16	12	40	40	18,0	44	13	34	163 ¹⁾
VDI 16	16	40	40	18,0	44	13	34	164 ¹⁾
VDI 20	8	50	40	23,0	50	18	41	200
VDI 20	10	50	40	23,0	50	18	41	201
VDI 20	12	50	40	23,0	50	18	41	202
VDI 20	16	50	40	23,0	50	18	41	203
VDI 20	20	50	50	23,0	50	18	41	204
VDI 20	25	50	50	23,0	60	18	51	205
VDI 25	8	58	40	25,0	50	18	41	250
VDI 25	10	58	40	25,0	50	18	41	251
VDI 25	12	58	40	25,0	50	18	41	252
VDI 25	16	58	40	25,0	50	18	41	253
VDI 25	20	58	58	25,0	50	18	41	254
VDI 25	25	58	58	25,0	60	18	51	255
VDI 30	8	68	55	28,0	60	22	51	300
VDI 30	10	68	55	28,0	60	22	51	301
VDI 30	12	68	55	28,0	60	22	51	302
VDI 30	16	68	55	28,0	60	22	51	303
VDI 30	20	68	55	28,0	60	22	51	304
VDI 30	25	68	55	28,0	60	22	51	305
VDI 30	32	68	68	28,0	75	22	61	306
VDI 40	8	83	55	32,5	75	22	61	400
VDI 40	10	83	55	32,5	75	22	61	401
VDI 40	12	83	55	32,5	75	22	61	402
VDI 40	16	83	55	32,5	75	22	61	403
VDI 40	20	83	55	32,5	75	22	61	404
VDI 40	25	83	55	32,5	75	22	61	405
VDI 40	32	83	83	32,5	75	22	61	406
VDI 40	40	83	83	32,5	90	22	76	407
VDI 50	12	98	68	35,0	90	30	76	500
VDI 50	16	98	68	35,0	90	30	76	501
VDI 50	20	98	68	35,0	90	30	76	502
VDI 50	25	98	68	35,0	90	30	76	503
VDI 50	32	98	68	35,0	90	30	76	504
VDI 50	40	98	98	35,0	90	30	76	505
VDI 50	50	98	98	35,0	100	30	86	506

1) Coolant supply through pipe joint

You can find spare parts on → **Page 254**

OZ-Collet chuck

E3



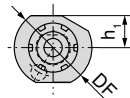
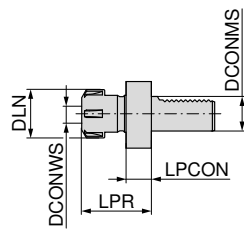
82 285 ...

Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	
VDI 20	2 - 16	50	43	23,0	57	18	415E / 421E (OZ)	202
VDI 30	2 - 16	68	43	28,0	57	22	415E / 421E (OZ)	301
VDI 30	2 - 25	68	60	28,0	75	22	459E / 462E (OZ)	302
VDI 40	2 - 25	83	60	32,5	75	22	459E / 462E (OZ)	402
VDI 40	4 - 32	83	72	32,5	90	22	460E / 467E (OZ)	403
VDI 50	2 - 25	98	60	35,0	75	30	459E / 462E (OZ)	500
VDI 50	4 - 32	98	72	35,0	90	30	460E / 467E (OZ)	501

OZ collets can be found on → **Page 268.**

ER Collet chucks

E4



82 286 ...

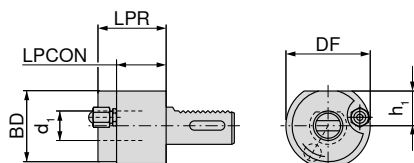
Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	
VDI 16	1 - 10	40	28	18,0	45,5	14	426E (ER16)	160
VDI 16	1 - 13	40	34	18,0	44,0	14	428E (ER20)	161
VDI 20	1 - 16	50	42	23,0	57,0	18	430E (ER25)	202
VDI 20	2 - 20	50	50	23,0	62,0	18	470E (ER32)	203
VDI 25	1 - 16	58	42	25,0	57,0	18	430E (ER25)	250
VDI 25	2 - 20	58	50	25,0	62,0	18	470E (ER32)	251
VDI 30	1 - 16	68	42	28,0	57,0	22	430E (ER25)	300
VDI 30	2 - 20	68	50	28,0	75,0	22	470E (ER32)	301
VDI 40	1 - 16	83	42	32,5	63,0	22	430E (ER25)	400
VDI 40	2 - 20	83	50	32,5	75,0	22	470E (ER32)	401
VDI 40	3 - 26	83	63	32,5	75,0	22	472E (ER40)	402
VDI 50	2 - 20	94	50	35,0	75,0	30	470E (ER32)	500
VDI 50	3 - 26	94	63	35,0	63,0	30	472E (ER40)	501

ER collets can be found on → **Pages 256–266.**

Morse taper adapters

▲ For taper shanks with ejector tang

F1

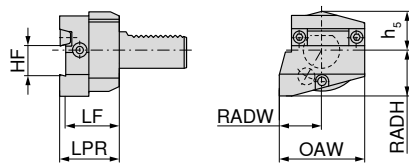


82 277 ...

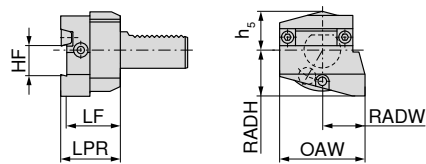
Adapter	d ₁	BD mm	DF mm	h ₁ mm	LPR mm	LPCON mm	
VDI 20	MK1		50	23,0	23		200
VDI 20	MK2		50	23,0	87		201
VDI 30	MK1		68	28,0	27		300
VDI 30	MK2		68	28,0	27		301
VDI 30	MK3	58	68	28,0	55	40	302
VDI 40	MK2	55	83	32,5	36	22	401
VDI 40	MK3	58	83	32,5	36	22	402
VDI 40	MK4	68	83	32,5	80	22	403
VDI 50	MK2	55	98	35,0	36	30	500
VDI 50	MK3	58	98	35,0	36	30	501
VDI 50	MK4	68	98	35,0	50	30	502

Parting blade holders, height adjustable

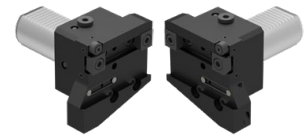
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



left



right

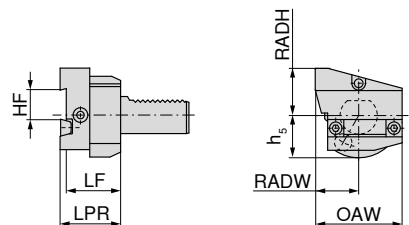


Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm
VDI 25	53	28,0	26	25,0	30	35	40
VDI 30	70	35,0	26	28,0	38	44	49
VDI 30	70	35,0	32	30,5	38	44	49
VDI 40	73	42,5	26	32,0	48	44	49
VDI 40	85	42,5	32	32,0	48	44	49

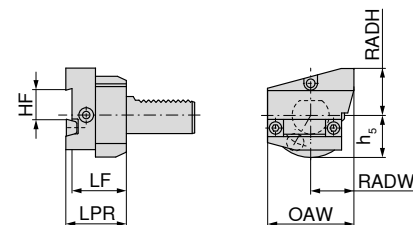
Left-hand	Right-hand
82 237 ...	82 236 ...
	250
300	300
302	302
040	040
400	400

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

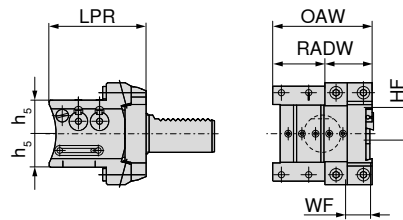
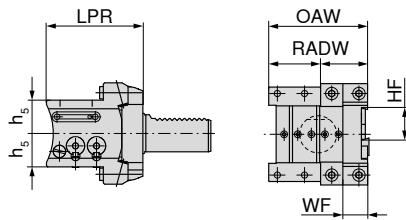


Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm
VDI 30	70	35,0	26	34,0	38	44	49
VDI 30	70	35,0	32	30,5	38	44	49
VDI 40	73	42,5	26	32,0	48	44	49
VDI 40	85	42,5	32	32,0	48	44	49

Left-hand	Right-hand
82 243 ...	82 242 ...
300	300
302	302
040	040
400	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

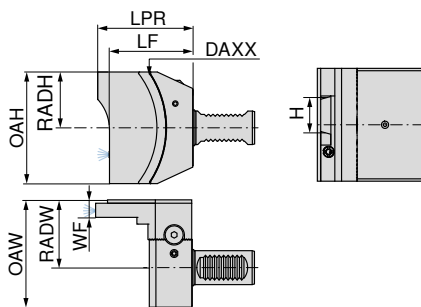


Adapter	OAW mm	RADW mm	HF mm	h ₅ mm	WF mm	LPR mm
VDI 30	80	40	26	27	20	78
VDI 40	80	40	26	27	20	88
VDI 40	80	40	32	32	20	88

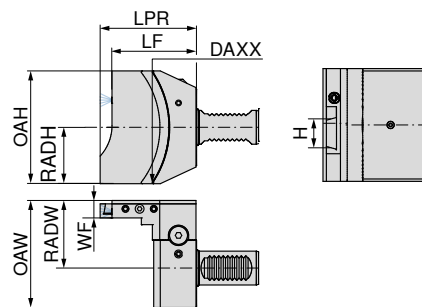
Universal-overhead	Universal
82 244 ...	82 238 ...
300	300
400	400
402	402

Parting blade holder

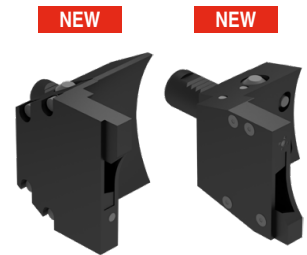
- ▲ doubles = reciprocally interlocked VDI shank



double – overhead



double



Adapter	LPR mm	LF mm	OAH mm	RADH mm	OAW mm	RADW mm	WF mm	DAXX mm	H mm
VDI 20	85,5	75,0	94	47	85	60	15,5	176	26
VDI 25	85,2	74,7	73	39	72	43	15,5	176	32
VDI 25	85,2	74,7	73	39	72	43	15,5	176	26
VDI 30	85,5	75,0	100	50	95	60	15,5	176	32
VDI 30	85,5	75,0	100	50	95	60	15,5	176	26
VDI 40	88,5	78,0	100	50	95	60	15,5	176	32
VDI 40	88,5	78,0	100	50	95	60	15,5	176	26

double - overhead	double
83 227 ...	83 226 ...
02629 ¹⁾	02629 ¹⁾
02628 ¹⁾	03228 ¹⁾
02628 ¹⁾	02628 ¹⁾
03227 ¹⁾	03227 ¹⁾
02627 ¹⁾	02627 ¹⁾
03226 ¹⁾	03226 ¹⁾
02626 ¹⁾	02626 ¹⁾

1) Not ex-stock

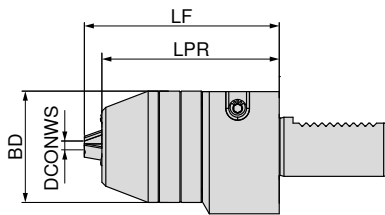
 With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

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

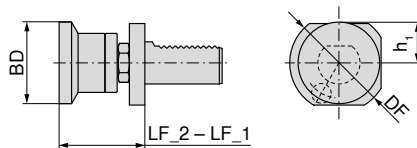

84 297 ...

Adapter	DCONWS mm	BD mm	LPR mm	LF mm	
VDI 20	0,5 - 10	48,5	40	50	210 ¹⁾
VDI 30	0,5 - 13	56,5	90	99	313
VDI 30	2,5 - 16	56,5	90	99	316
VDI 40	0,5 - 13	56,5	90	99	413
VDI 40	2,5 - 16	56,5	90	99	416

1) Without Through Coolant

Material stops

- ▲ Revolving, length adjustable

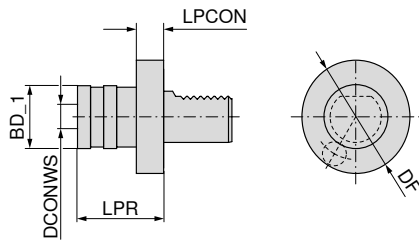

83 292 ...

Adapter	BD mm	DF mm	h ₁ mm	LF_2 mm	LF_1 mm	
VDI 20	26	50	23,0	50	70	200 ¹⁾
VDI 20	32	50	23,0	50	70	201 ¹⁾
VDI 20	42	50	23,0	50	70	202 ¹⁾
VDI 30	32	68	28,0	62	95	300
VDI 30	42	68	28,0	62	95	301
VDI 30	58	68	28,0	62	95	302
VDI 40	32	83	32,5	62	95	400
VDI 40	42	83	32,5	62	95	401
VDI 40	58	83	32,5	62	95	402

1) without VDI location

Quick-change tap chucks GSF

▲ LZD = Length compensation under tension and compression



							83 307 ...
Adapter	cutting range	SZID	DCONWS mm	BD_1 mm	LPR mm	LZD± mm	
VDI 20	M3 - M12	01	19	38	55	9	112
VDI 25	M3 - M12	01	19	38	55	9	212
VDI 30	M3 - M12	01	19	38	55	9	312
VDI 40	M3 - M12	01	19	38	55	9	412
VDI 20	M6 - M20	02	31	55	77	15	120
VDI 25	M6 - M20	02	31	55	77	15	220
VDI 30	M6 - M20	02	31	55	77	15	320
VDI 40	M6 - M20	02	31	55	77	15	420

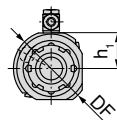
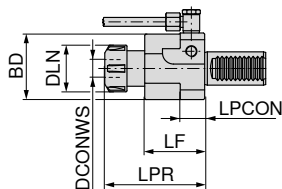


Quick change adapters can be found on → **Page 277–281.**

Tap holders with length compensation GML

▲ LZD = Length compensation under tension and compression

▲ for ER collets with internal square ISO 15488-A (DIN 6499-A)



										83 290 ...
Adapter	DCONWS mm	DLN mm	BD mm	DF mm	h ₁ mm	LPR mm	LF mm	LPCON mm	LZD± mm	for collet
VDI 20	0,5 - 10	28	45	50	23,0	65	40	18	6,0 / 1,5	4031E (ER16)
VDI 30	1 - 16	42	62	68	28,0	90	54	42	8,0 / 2,0	4282E (ER25)
VDI 40	1 - 16	42	62	83	32,5	85	49	42	8,0 / 2,0	4282E (ER25)



ER collets can be found on → **Pages 256–266.**

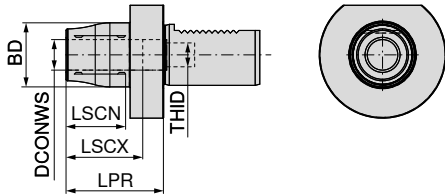
Hydraulic chuck

- ▲ 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

NEW



AD

83 402 ...

Adapter	DCONWS mm	BD mm	LPR mm	LSCX mm	LSCN mm	THID
VDI 30	20	42	64	51	41	M16x1
VDI 40	20	42	64	51	41	M16x1

02027

02026



Stop screw IK

83 950 ...

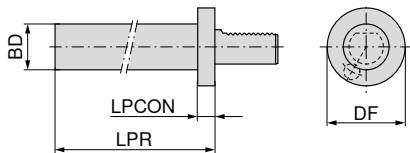
Spare parts

DCONWS

20 M16x1x31 - SW5 48700

Test arbors

- ▲ Radial run-out ≤ 0.02 mm



83 324 ...

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

016

020

030

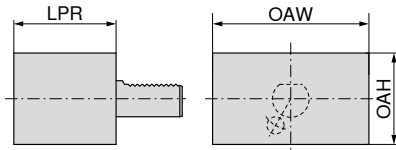
040

050

Tool holders, rough machined, rectangular

▲ Manufactured from C45

A1



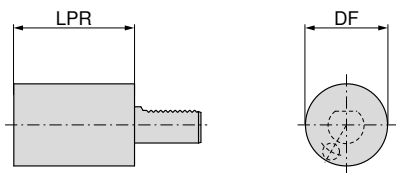
82 327 ...

Adapter	LPR mm	OAW mm	OAH mm	
VDI 16	44	78	44	160
VDI 20	65	100	60	200
VDI 25	75	100	60	250
VDI 30	85	130	76	300
VDI 40	100	151	96	400
VDI 50	125	160	120	500

Tool holders, rough machined, round

▲ Manufactured from C45

A2



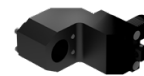
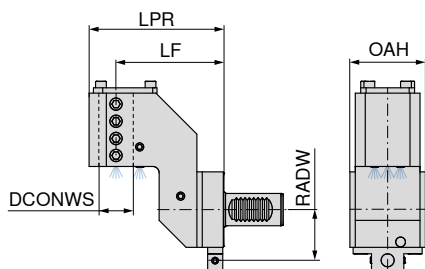
82 330 ...

Adapter	LPR mm	DF mm	
VDI 16	60	40	160
VDI 20	70	50	200
VDI 25	80	58	250
VDI 25	200	58	253
VDI 30	100	68	300
VDI 30	240	68	303
VDI 40	120	83	400
VDI 40	320	83	403
VDI 50	135	98	500
VDI 50	400	98	502

Boring bar holder, with offset, with through coolant

- ▲ doubles = reciprocally interlocked VDI shank
- ▲ external coolant supply available

NEW



double



IC

83 229 ...

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

02528¹⁾03227¹⁾04026¹⁾

1) Not ex-stock

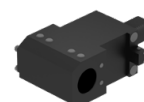
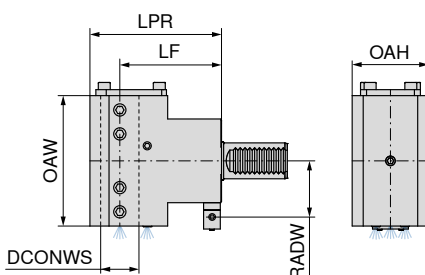


With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Double boring bar holder with through coolant

- ▲ doubles = reciprocally interlocked VDI shank
- ▲ for use of two boring bars for main and sub-spindle machining
- ▲ external coolant supply available

NEW



double



IC

83 230 ...

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

02528¹⁾03227¹⁾13227¹⁾04026¹⁾

1) Not ex-stock

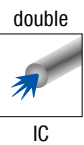
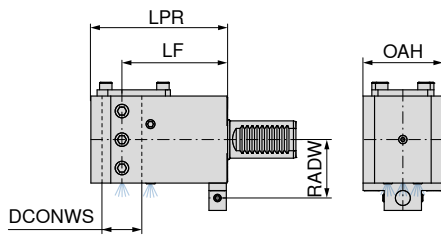


With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Boring bar holder with through coolant

- ▲ doubles = reciprocally interlocked VDI shank
- ▲ external coolant supply available

NEW



83 228 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	
VDI 25	25	100	75	60	40	02528 ¹⁾
VDI 30	32	110	85	64	47	03227 ¹⁾
VDI 30	32	125	100	64	47	13227 ¹⁾
VDI 40	40	130	100	76	56	04026 ¹⁾
VDI 40	40	152	120	76	56	14026 ¹⁾
VDI 50	50	155	120	98	64	05025 ¹⁾

1) Not ex-stock

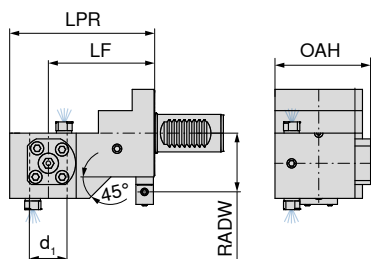


With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

90° VDI to VDI adapter, double sided

- ▲ for rotating toolholder

NEW



83 225 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	
VDI 25	25	104	75	38,0	40	02528 ¹⁾
VDI 25	20	104	75	67,5	40	02028 ¹⁾
VDI 30	30	116	85	76,5	47	03027 ¹⁾
VDI 30	30	131	100	76,5	47	13027 ¹⁾
VDI 40	40	133	100	89,0	56	04026 ¹⁾
VDI 40	40	153	120	89,0	56	14026 ¹⁾

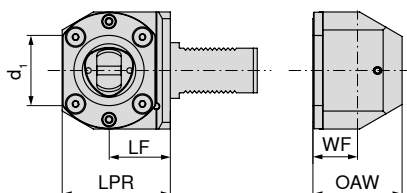
1) Not ex-stock

90° VDI to PSC adapter

Scope of supply:

including pull stud

NEW



90°

83 231 ...

Adapter	d ₁	LF mm	LPR mm	WF mm	OAW mm	
VDI 30	PSC 40	41	65	21	56	04027 ¹⁾
VDI 40	PSC 40	51	75	30	86	04026 ¹⁾
VDI 40	PSC 50	53	85	40	80	05026 ¹⁾
VDI 40	PSC 63	53	95	40	80	06326 ¹⁾
VDI 50	PSC 50	53	85	40	80	05025 ¹⁾
VDI 50	PSC 63	55	97	40	80	06325 ¹⁾

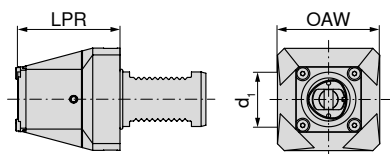
1) Not ex-stock

VDI to PSC adapter

Scope of supply:

including pull stud

NEW



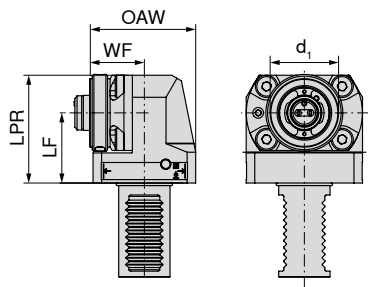
83 232 ...

Adapter	d ₁	LPR mm	OAW mm	
VDI 30	PSC 40	70	60	04027 ¹⁾
VDI 40	PSC 40	75	75	04026 ¹⁾
VDI 40	PSC 50	85	82	05026 ¹⁾
VDI 40	PSC 63	90	105	06326 ¹⁾
VDI 50	PSC 50	85	91	05025 ¹⁾
VDI 50	PSC 63	100	105	06325 ¹⁾

1) Not ex-stock

90° VDI to HSK-T adapter

NEW



90°

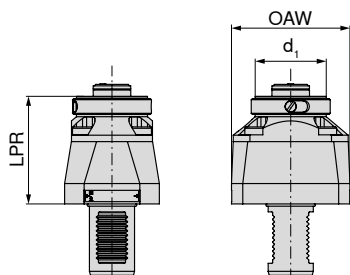
83 233 ...

Adapter	d ₁	LF mm	LPR mm	WF mm	OAW mm	
VDI 30	HSK-T 40	41	65	25	60	04027 ¹⁾
VDI 40	HSK-T 40	51	75	34	90	04026 ¹⁾
VDI 40	HSK-T 63	53	90	45	85	06326 ¹⁾
VDI 50	HSK-T 63	55	97	45	85	06325 ¹⁾

1) Not ex-stock

VDI to HSK-T adapter

NEW



83 234 ...

Adapter	d ₁	LPR mm	OAW mm	
VDI 30	HSK-T 40	74	60	04027 ¹⁾
VDI 40	HSK-T 40	79	75	04026 ¹⁾
VDI 40	HSK-T 63	95	105	06326 ¹⁾
VDI 50	HSK-T 63	105	105	06325 ¹⁾

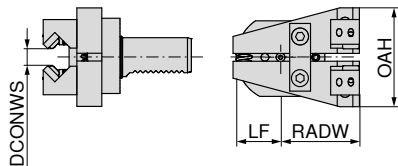
1) Not ex-stock

Bar pullers for disc turrets, radial

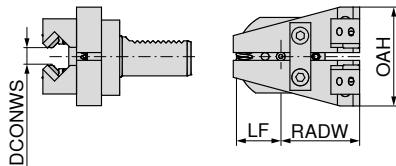
- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ GA = Gripper set

Scope of supply:

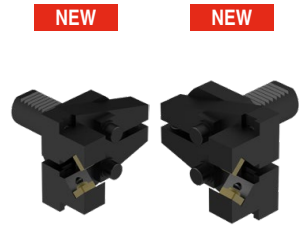
Bar puller incl. GA 1 for VDI 16, and GA 3 from VDI 20



left



right



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

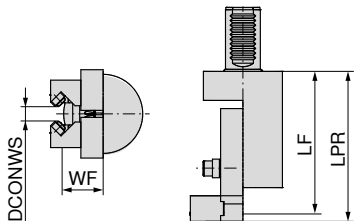
Left-hand	Right-hand
80 309 ...	80 306 ...
	01600
	02000
03000	03000
04000	04000

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



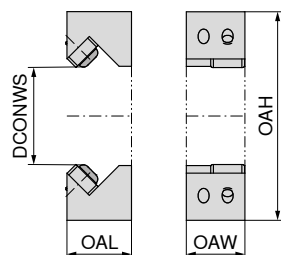
Adapter	DCONWS mm	LF mm	LPR mm	WF mm	GA
VDI 30	2 - 42	122,5	129	37,0	3 - 4
VDI 40	2 - 65	142,5	149	41,5	3 - 4

Left-hand
80 310 ...
03000
04000

Gripper accessories

▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...

▲ Price per pair



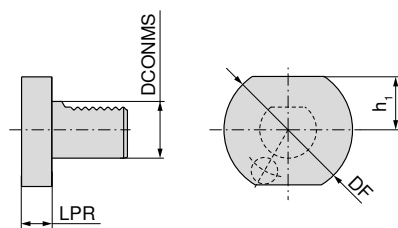
NEW



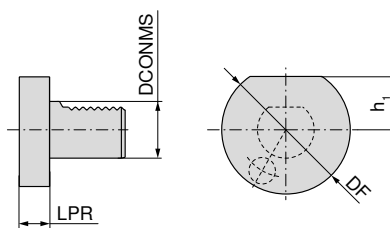
80 312 ...

GA	DCONWS mm	OAL mm	OAW mm	OAH mm	
1	2 - 22	24,5	13	58	12200
3	2 - 42	26,0	22	86	14200
4	42 - 65	29,5	22	102	16500

Protection plugs



Steel



Plastic

Z2

Z2



Steel

Plastic

82 317 ...

83 318 ...

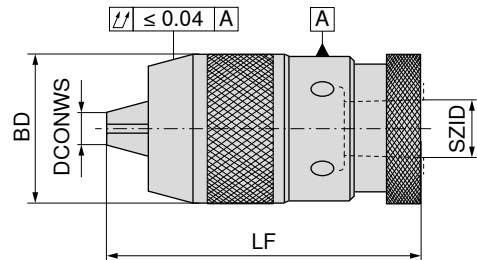
DCONMS _{h8} mm	DF mm	h ₁ mm	LPR mm		
16	40	18,0	16	160	160
20	50	23,0	16	200	200
25	58	25,0	16	250	
30	68	28,0	16	300	300
40	83	32,5	20	400	400
50	98	35,0	20	500	500

Drill chuck

- ▲ For manual and key clamping
- ▲ Through-hardened and ground

Scope of supply:

Holder with clamping key



				83 636 ...
SZID	DCONWS mm	LF mm	BD mm	
B12	0 - 8	73	35	012
B12	0 - 10	92	43	112
B16	1 - 13	106	50	016
B16	3 - 16	110	57	116
B18	3 - 16	110	57	018



NC clamping key

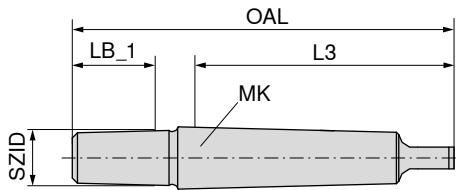
Spare parts
DCONWS

		83 302 ...
0 - 10		010
0 - 8		008
1 - 13		013
3 - 16		016

 Suitable adapters can be found on **page 50+96**.

Drill chuck adapter DIN 238

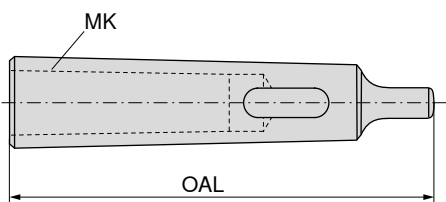
▲ Through-hardened and ground



					83 642 ...
Adapter	SZID	I ₃ mm	LB_1 mm	OAL mm	
MK1	B12	62,0	18,5	89,0	120
MK1	B16	62,0	24,0	97,0	160
MK1	B18	62,0	32,0	106,0	180
MK2	B12	75,0	18,5	106,5	121
MK2	B16	75,0	24,0	110,5	161
MK2	B18	75,0	32,0	117,5	181
MK3	B12	94,0	18,5	125,0	122
MK3	B16	94,0	24,0	134,0	162
MK3	B18	94,0	32,0	141,0	182
MK4	B16	117,5	24,0	159,0	163
MK4	B18	117,5	32,0	168,0	183
MK5	B16	149,5	24,0	196,0	164
MK5	B18	149,5	32,0	204,5	184

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



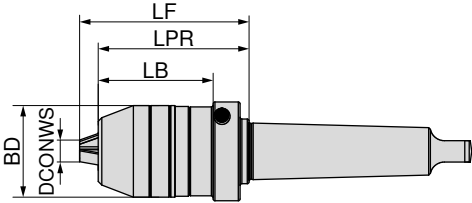
			83 644 ...
Adapter	d ₁	OAL mm	
MK1	MK0	80	010
MK2	MK1	92	020
MK3	MK1	99	130
MK3	MK2	112	030
MK4	MK1	124	240
MK4	MK2	124	140
MK4	MK3	140	040
MK5	MK2	156	250
MK5	MK3	156	150
MK5	MK4	171	050

Short drill chuck – NC 2010

- ▲ bidirectional
- ▲ Torque moment = 12 Nm
- ▲ with Morse taper

Scope of supply:

Holder with clamping key



84 314 ...

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

313

316

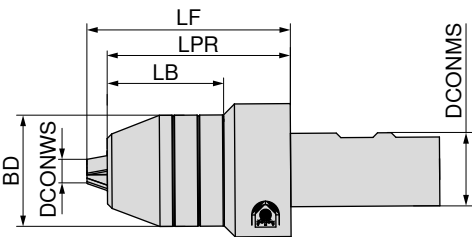
416

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 ...

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

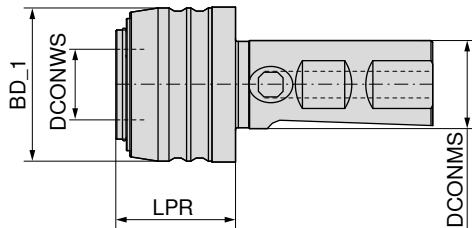
213

313

316

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



83 641 ...

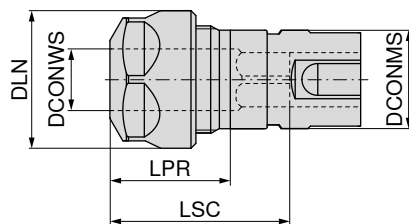
DCONWS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONMS mm	LZD± mm	
20	M3 - M12	1	35	43,5	25	1,0 / 0,2	012
32	M6 - M20	2	56	60,0	25	1,0 / 0,2	020

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	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	020



Lock nut

62 950 ...



Lock nut IK

83 950 ...



Lock nut

62 950 ...



Y clamping key

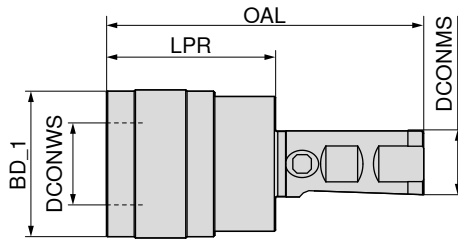
83 357 ...

Spare parts for Article no.

83 608 012	M22x1,5 - SW25	044	M22x1,5	054	M22x1,5	054	116
83 608 020			M32x1,5	055	M32x1,5	055	125

Quick change tap chuck with length compensation

- ▲ With cylindrical shank
- ▲ With length compensation under tension and compression (LZD)
- ▲ Quick change adapters

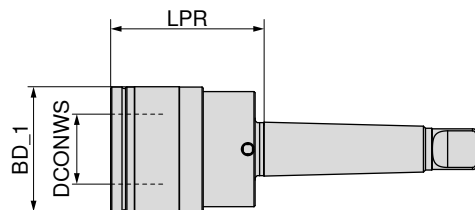


83 648 ...

DCONMS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	OAL mm	LZD± mm	
20	M3 - M12	01	41	38	19	91	9	112
20	M6 - M20	02	63	55	31	138	15	120
25	M3 - M12	01	41	38	19	97	9	212
25	M6 - M20	02	63	55	31	119	15	220
32	M3 - M12	01	41	38	19	102	9	312
32	M6 - M20	02	63	55	31	124	15	320

DIN 228B – Quick change tap chuck with length compensation

- ▲ With Morse taper shank
- ▲ With length compensation under tension and compression (LZD)



83 646 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	
MK 2	M3 - M12	01	46	38	19	9	212
MK 3	M3 - M12	01	46	38	19	9	312
MK 3	M6 - M20	02	69	55	31	15	320
MK 4	M6 - M20	02	70	55	31	15	420

Accessories

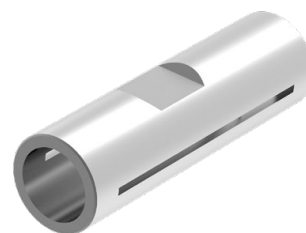
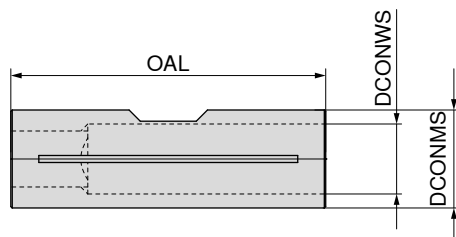


Collet

→ 277, 279-281

Clamping sleeve for taps in Weldon chucks

- ▲ For machines with rigid tapping
- ▲ For safe clamping of taps



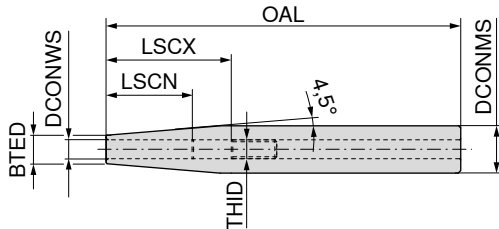
80 699 ...

DCONWS _{H7} mm	DCONMS _{f6} mm	OAL mm	
3,5	6	26	03500
4,0	8	32	04000
4,5	8	26	04500
6,0	10	30	06000
7,0	10	31	07000
8,0	12	38	08000
9,0	12	38	09000
10,0	14	42	10000
11,0	14	42	11000
12,0	16	44	12000
14,0	18	45	14000
16,0	20	46	16000

Shrink fit extension

- ▲ For solid carbide and HSS shanks with h6 tolerance or better
- ▲ DRVS = Key size of the adjustment screw

TG



84 310 ...

DCONMS _{h6} mm	DCONWS mm	BTED mm	OAL mm	LSCX mm	LSCN mm	THID	DRVS mm	
12	3	8	150					003
12	4	8	150					004
12	5	10	150					005
12	6	10	150	36	26	M5	2,5	006
16	3	10	150					103
16	4	10	150					104
16	5	10	150					105
16	6	10	150	36	26	M5	2,5	106
16	8	12	150	36	26	M6	3,0	108
20	3	10	150					203
20	4	10	150					204
20	5	10	150					205
20	6	10	150	36	26	M5	2,5	206
20	8	12	150	36	26	M6	3,0	208
20	10	14	150	42	32	M8x1	3,0	210
20	12	16	150	47	37	M10x1	5,0	212
25	3	10	150					303
25	4	10	150					304
25	5	15	150					305
25	6	20	150	36	26	M5	2,5	306
25	8	20	150	36	26	M6	3,0	308
25	10	20	150	42	32	M8x1	3,0	310
25	12	20	150	47	37	M10x1	5,0	312
25	14	20	150	47	37	M10x1	5,0	314
25	16	22	150	50	40	M10x1	5,0	316
32	6	20	150	36	26	M5	2,5	406
32	8	20	150	36	26	M6	3,0	408
32	10	24	150	42	32	M8x1	3,0	410
32	12	24	150	47	37	M10x1	5,0	412
32	14	27	150	47	37	M10x1	5,0	414
32	16	27	150	50	40	M10x1	5,0	416
32	18	27	150	50	40	M10x1	5,0	418
32	20	27	150	52	42	M10x1	5,0	420



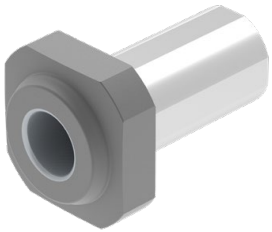
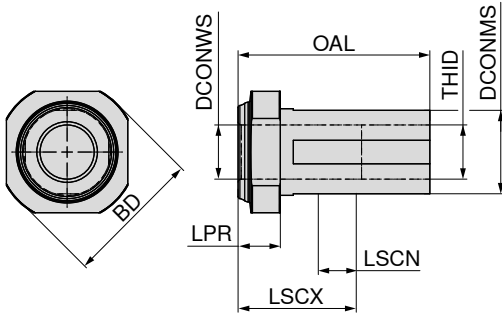
Observe the minimum clamping depth on → Page 300.

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



83 402 ...

DCONMS mm	DCONWS mm	BD mm	LPR mm	OAL mm	LSCX mm	LSCN mm	THID	
32	16	41	19,5	78,5	51	41	M22x1	31699
32	20	41	19,5	78,5	51	41	M22x1	32099
40	16	46	19,5	88,5	51	41	M22x1	41699
40	20	46	19,5	88,5	51	41	M22x1	42099
40	25	46	19,5	88,5	57	47	M27x1	42599



83 950 ...

Spare parts

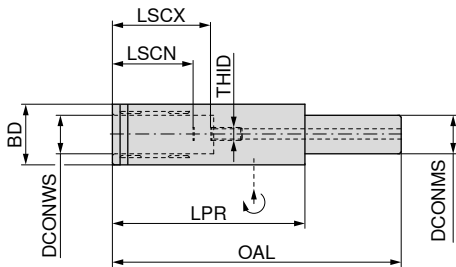
DCONWS	
16 - 20	48500
25	48600

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	
20	12	25,0	100	150	46	36	M6
20	20	31,5	100	150	51	41	M10x1
32	20	31,5	90	150	51	41	M10x1
32	20	31,5	90	200	51	41	M10x1

112

120

132

232

1 Observe the minimum clamping depth on → Page 300.



Stop screw IK

83 950 ...

Spare parts for Article no.

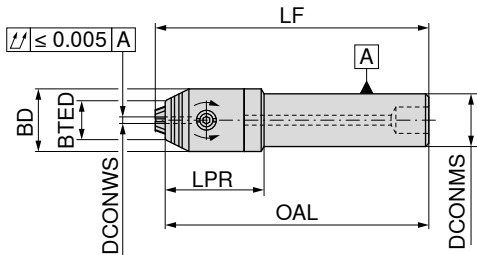
84 313 112	M6x12,5 - SW3	419
84 313 120	M10x1x13,5 - SW5	421
84 313 132	M10x1x13,5 - SW5	421
84 313 232	M10x1x13,5 - SW5	421

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
16	0,2 - 3,4	30	100	103	19	12	2
16	0,2 - 3,4	30	160	163	19	12	2
20	0,2 - 3,4	28	80	83	19	12	2
20	0,2 - 3,4	28	100	103	19	12	2
20	0,2 - 3,4	28	160	163	19	12	2

161
162
163
201
202
203

Spare parts for Article no.

84 315 161
84 315 162
84 315 163
84 315 201
84 315 202
84 315 203

TORX® blade

80 950 ...

Torque
screwdriver

80 021 ...

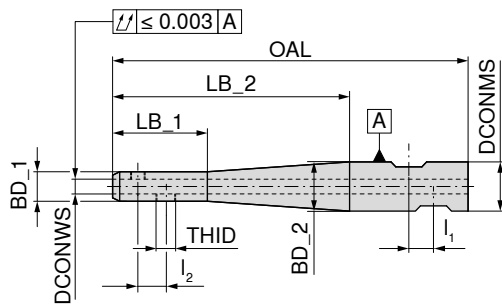
152	1,8 Nm	018
152	1,8 Nm	018
152	1,8 Nm	018
152	1,8 Nm	018
152	1,8 Nm	018
152	1,8 Nm	018

Micro-extension

- ▲ for shanks with lateral clamping flat to DIN 6535 HB / 1835 B
- ▲ with option for Synchro-Plus tapping (available on request)

Scope of supply:

Holder with shank clamping screw



80 642 ...

DCONWS	BD_1	LB_1	LB_2	OAL	DCONMS	BD_2	I ₁	I ₂	THID	TQX	
mm	mm	mm	mm	mm	mm	mm	mm	mm		Nm	
6	12	40	40	85	12	12	10	10	M6 x 0,5	7	00600
6	12	40	100	150	20	20	10	10	M6 x 0,5	7	10600
8	15	40	40	88	16	15	10	10	M8 x 0,75	8	00800
8	15	40	100	150	20	20	10	10	M8 x 0,75	8	10800
10	18	40	40	90	20	18	10	10	M10 x 1	12	01000
10	18	40	100	150	20	20	10	10	M10 x 1	12	11000
12	21	40	40	90	20	21	10	10	M12 x 1	15	01200
12	21	40	100	150	20	21	10	10	M12 x 1	15	11200
14	23	40	40	90	20	23	10	10	M12 x 1	15	01400
14	23	40	100	150	20	23	10	10	M12 x 1	15	11400
16	26	40	50	106	25	26	10	12	M14 x 1	18	01600 ¹⁾
16	26	40	100	156	25	26	10	12	M14 x 1	18	11600 ¹⁾
18	28	40	50	106	25	28	10	12	M14 x 1	18	01800 ¹⁾
18	28	40	100	156	25	28	10	12	M14 x 1	18	11800 ¹⁾
20	31	40	50	110	32	31	10	14	M16 x 1	20	02000 ¹⁾
20	31	40	100	160	32	31	10	14	M16 x 1	20	12000 ¹⁾

1) only pre-balanced design



Clamping screw

80 950 ...

Spare parts

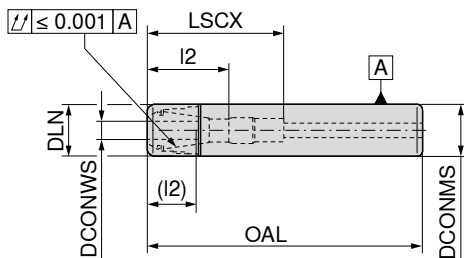
DCONWS		
6	M6X0,5X3	21700
8	M8x0,75x4	21800
10	M10x1x5	21900
12 - 14	M12x1x5	30000
16 - 18	M14x1x6,5	31000
20	M16x1x6,5	32000

Mini ER 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 ...
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)	00400
10	1 - 5	10	150	16		4004E (ER08)	005
10	1 - 5	10	200	16		4004E (ER08)	006
12	1 - 5	10	120	16		4004E (ER08)	11000
12	1 - 5	10	160	16		4004E (ER08)	11200
12	1 - 5	10	200	16		4004E (ER08)	11400
16	1 - 7	16	150	68	18 - 36 (12 - 26)	4008E (ER11)	007
16	1 - 7	16	200	68	18 - 36 (12 - 26)	4008E (ER11)	008
16	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	010
16	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	12000
20	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	102
20	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	104



LSCX = Clamping depth without back stop screw for shanks
 l_2 = with back stop screw 1, dimension in brackets () = 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)		040		
426E (ER16)	035	041	340	336
		034	M8x1 - SW4	M8x1 - SW4
			M11x1 - SW6	M11x1 - SW6
			341	337

Accessories

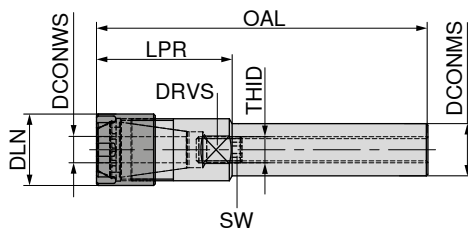
ER collet	Device	Roll key	Roll key device
→ 256-263, 266	→ 274	→ 275	→ 275



The transferable torques can be found on → **Page 300.**

ER collet chuck with mini clamping nut

▲ with cylindrical shank



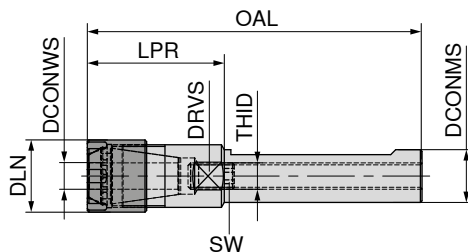
83 453 ...

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)	081 ¹⁾
12	1 - 5	157	20	12	M5x0,8	10	2,5	4004E (ER08)	122
16	1 - 7	185	25	16	M7,5x0,5	14	3,0	4008E (ER11)	163
16	1 - 10	117	37	22	M11x1	17	5,0	426E (ER16)	164
16	1 - 10	199	39	22	M8x1,25	17	4,0	426E (ER16)	165
20	1 - 10	168	28	22	M11x1	17	5,0	426E (ER16)	204
25	1 - 13	168	28	28	M14x1	22	5,0	428E (ER20)	254
25	1 - 16	189	39	35	M18x1	27	5,0	430E (ER25)	256

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat



83 454 ...

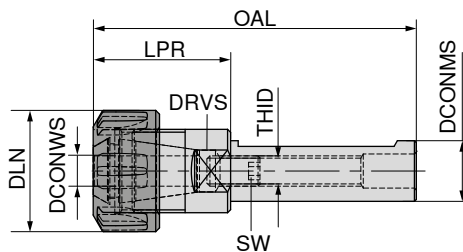
DCONMS _{h6} mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	SW mm	for collet	
20	1 - 10	168	28	22	M11x1	17	5	426E (ER16)	204
20	1 - 13	138	38	28	M11x1	22	5	428E (ER20)	206
20	1 - 16	146	46	35	M14x1	27	5	430E (ER25)	208
25	1 - 13	168	28	28	M14x1	22	5	428E (ER20)	254
25	1 - 16	189	39	35	M18x1	27	5	430E (ER25)	256

Spare parts for ER collet chuck with mini lock nut

					
	83 950 ...		62 950 ...		83 950 ...
Spare parts for collet					
4004E (ER08)	099	M10x0,75	067	M5x0,8 SW 2,5	003
4008E (ER11)	100	M13x0,75	065	M7,5x0,5 SW 3	004
426E (ER16)	101	M19x1	066	M11x1 SW 5	006
426E (ER16)	101	M19x1	066	M8x1,25 SW 4	005
428E (ER20)	102	M24x1	068	M14x1 SW 5	007
430E (ER25)	103	M30x1	069	M18x1 SW 5	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)	401
40	2 - 20	160	35	50	M22x1,5	36	5	470E (ER32)	402
40	3 - 30	139	59	63	M28x1,5	40	6	472E (ER40)	405

							
	62 950 ...		83 357 ...		83 950 ...		83 950 ...
Spare parts for collet							
470E (ER32)	056	M40x1,5	132			M22x1,5x20 SW 5	095
472E (ER40)	057	M50x1,5	140		096		

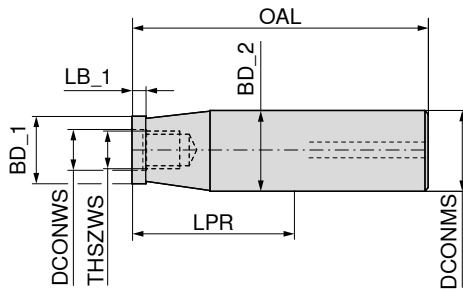
Accessories



ER collet

→ 256-266

Cylindrical milling bar for cutters with threaded end



56 727 ...

DCONWS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm
12	M5	5,5	20	9,5	7,8	11,5	65
12	M6	6,5	20	11,5	7,8	11,5	65
12	M6	6,5	40	11,5	7,8	11,5	85
16	M8	8,5	20	13,8	7,8	15,8	68
16	M8	8,5	40	13,8	7,8	15,8	88
20	M10	10,5	25	18,0	7,8	19,8	75
20	M10	10,5	45	18,0	7,8	19,8	95
25	M12	12,5	50	21,0	7,8	24,8	106
32	M16	17,0	50	29,0	12,0	31,8	110

052

060

062

081

082

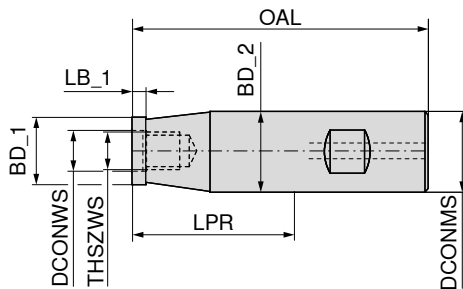
101

102

122

162

Milling bar for cutters with threaded end (Weldon)



56 729 ...

DCONWS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm
12	M6	6,5	20	11,5	7,8	11,5	65
12	M6	6,5	40	11,5	7,8	11,5	85
16	M8	8,5	20	13,8	12,0	15,8	68
16	M8	8,5	40	13,8	8,0	15,8	88
20	M10	10,5	25	18,0	8,0	19,8	75
20	M10	10,5	45	18,0	12,0	19,8	95
25	M12	12,5	30	21,0	12,0	24,9	86
25	M12	12,5	50	21,0	8,0	24,9	106
32	M16	17,0	50	29,0	12,0	31,8	110

060

062

081

082

101

102

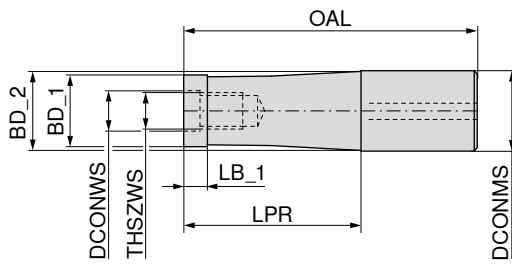
121

122

162

Screw-in adapter with cylindrical shank

▲ Vibration-damped

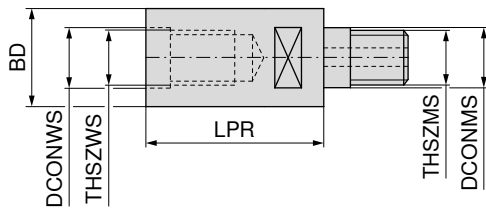


DCONWS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm
12	M5	5,5	40	9,5	9	11,3	85
12	M5	5,5	60	9,5	9	11,3	105
12	M5	5,5	80	9,5	9	11,3	125
12	M6	6,5	20	11,5		11,5	65
12	M6	6,5	40	11,5		11,5	85
12	M6	6,5	60	11,5		11,5	105
12	M6	6,5	80	11,5		11,5	125
12	M6	6,5	100	11,5		11,5	145
16	M8	8,5	40	14,2	9	15,3	88
16	M8	8,5	60	14,2	9	15,3	108
16	M8	8,5	80	14,2	9	15,3	128
16	M8	8,5	100	14,2	9	15,3	148
16	M8	8,5	120	14,2	9	15,3	168
16	M8	8,5	150	14,2	9	15,3	198
20	M10	10,5	60	18,5	9	19,3	110
20	M10	10,5	80	18,5	9	19,3	130
20	M10	10,5	100	18,5	9	19,3	150
20	M10	10,5	120	18,5	9	19,3	170
20	M10	10,5	140	18,5	9	19,3	190
25	M12	12,5	75	23,0	9	24,3	131
25	M12	12,5	80	23,0	9	24,3	136
25	M12	12,5	100	23,0	9	24,3	156
25	M12	12,5	120	23,0	9	24,3	176
25	M12	12,5	125	23,0	9	24,3	181
25	M12	12,5	140	23,0	9	24,3	196
25	M12	12,5	150	23,0	9	24,3	206
25	M12	12,5	160	23,0	9	24,3	216
25	M12	12,5	175	23,0	9	24,3	231
32	M16	17,0	100	29,0	9	31,5	160
32	M16	17,0	150	29,0	9	31,5	210
32	M16	17,0	200	29,0	9	31,5	260
32	M16	17,0	250	29,0	9	31,5	310
32	M16	17,0	300	29,0	9	31,5	360
36	M16	17,0	100	31,5	9	34,3	160
36	M16	17,0	150	31,5	9	34,3	210
36	M16	17,0	200	31,5	9	34,3	260

Solid carbide	Densimet	Densimet
56 743 ...	56 744 ...	56 721 ...
	052	052
	053	053
	054	054
060		
062		
063		
064		
065		
082	082	082
083	083	083
084	084	084
085	085	085
086	086	086
	087	087
103	103	103
104	104	104
105	105	105
106	106	106
107	107	107
	124	124
124		
125	125	125
126		
	126	126
127		
	127	127
128		
	128	128
165 ¹⁾		
166 ¹⁾		
167 ¹⁾		
168 ¹⁾		
169 ¹⁾		
		165 ¹⁾
		166 ¹⁾
		167 ¹⁾

1) On request

Extensions for milling cutters with threaded end

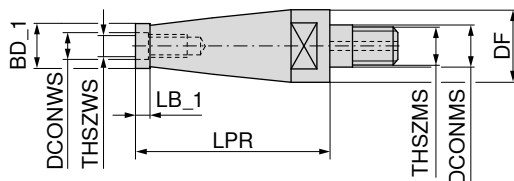


56 733 ...

THSZWS	THSZMS	DCONWS mm	DCONMS mm	LPR mm	BD mm
M8	M8	8,5	8,5	40	13,8
M8	M8	8,5	8,5	60	13,8
M10	M10	10,5	10,5	40	18,0
M10	M10	10,5	10,5	60	18,0
M12	M12	12,5	12,5	40	21,0
M12	M12	12,5	12,5	60	21,0
M16	M16	17,0	17,0	40	29,0
M16	M16	17,0	17,0	60	29,0

081
082
101
102
121
122
161
162

Reductions for milling cutters with threaded end

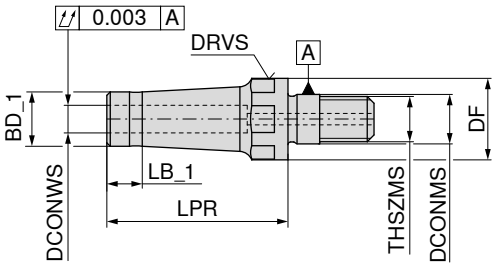


56 735 ...

THSZWS	THSZMS	DCONMS mm	DCONWS mm	LPR mm	BD_1 mm	DF mm	LB_1 mm
M6	M8	8,5	6,5	20	9,5	13,8	7,8
M8	M10	10,5	8,5	40	13,8	18,0	7,8
M8	M12	12,5	8,5	60	13,8	21,0	7,8
M10	M12	12,5	10,5	40	18,0	21,0	7,8
M10	M16	17,0	10,5	60	18,0	29,0	7,8
M12	M16	17,0	12,5	40	21,0	29,0	7,8

060
081
082
101
102
121

Threaded shrink adapter

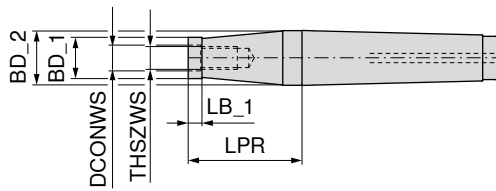


56 708 ...

THSZMS	DCONWS	BD_1	LPR	LB_1	DF	DCONMS	TQX	DRVS	
	mm	mm	mm	mm	mm	mm	Nm	mm	
M10	6	12	40	7,8	18	10,5	30	17	061
M12	6	12	40	7,8	21	12,5	50	19	062
M16	6	12	40	7,8	29	17,0	100	27	063
M10	8	16	40	7,8	18	10,5	30	17	081
M12	8	16	40	7,8	21	12,5	50	19	082
M16	8	16	40	7,8	29	17,0	100	27	083
M10	10	18	60		18	10,5	30	17	101
M12	10	20	60	7,8	21	12,5	50	19	102
M16	10	20	60	7,8	29	17,0	100	27	103
M12	12	21	60		21	12,5	50	19	122
M16	12	24	60	7,8	29	17,0	100	27	123

1 Observe the minimum clamping depth on → **Page 300.**

Morse taper milling bar for cutters with threaded end



56 731 ...

Adapter	THSZWS	DCONWS	BD_1	LB_1	BD_2	LPR	
		mm	mm	mm	mm	mm	
MK2	M8	8,5	13,8	8,5	18,0	20	081
MK2	M8	8,5	13,8	8,5	18,0	40	082
MK2	M8	8,5	13,8	8,5	18,0	60	083
MK3	M8	8,5	13,8	8,5	24,1	80	084
MK3	M8	8,5	13,8	8,5	24,1	100	085
MK2	M10	10,5	18,0		18,0	20	101
MK2	M10	10,5	18,0		18,0	40	102
MK2	M10	10,5	18,0		18,0	60	103
MK3	M10	10,5	18,0	8,5	24,1	80	104
MK3	M10	10,5	18,0	8,5	24,1	100	105
MK3	M12	12,5	21,0	8,5	24,0	10	121
MK3	M12	12,5	21,0	8,5	24,1	30	122
MK3	M12	12,5	21,0	8,5	24,1	45	123
MK3	M12	12,5	21,0	8,5	24,1	60	124
MK3	M12	12,5	21,0	8,5	24,1	75	125
MK3	M12	12,5	21,0	8,5	24,1	85	126
MK3	M12	12,5	21,0	8,5	24,1	95	127
MK4	M12	12,5	21,0	8,5	31,6	120	129
MK4	M16	17,0	29,0	12,0	31,6	10	161
MK4	M16	17,0	29,0	12,0	31,6	35	162
MK4	M16	17,0	29,0	12,0	31,6	50	163
MK4	M16	17,0	29,0	9,0	31,6	65	164
MK4	M16	17,0	29,0	12,0	31,6	80	165
MK4	M16	17,0	29,0	12,0	31,6	95	166
MK5	M16	17,0	29,0	9,0	44,7	150	168
MK5	M16	17,0	29,0	9,0	44,7	180	169

MultiChange – Programme Overview

The highly stable "MultiChange" exchangeable head system enables an extremely fast tool change. Designed to be durable and for a very high radial run-out accuracy, this exchangeable head system is probably the most stable and precise exchangeable head system on the market. The following chapters contain suitable exchangeable heads for almost every application.

Solid carbide drilling

- ▲ Solid Carbide NC Spot Drill
 $\angle 90^\circ, 120^\circ, 142^\circ$ / Ø 8, 10, 12, 16, 20 mm / ZEFP* 2

→ **Chapter 2, Solid carbide drilling**



*ZEFP = Number of teeth

Reaming and Countersinking

- ▲ Through hole reamers
 Ø 8–30.2 mm incl. special diameters / ZEFP 4-6
- ▲ Blind hold reamers
 Ø 12.2–30.2 mm incl. special diameters / ZEFP 6

→ **Chapter 4, Reaming and countersinking**

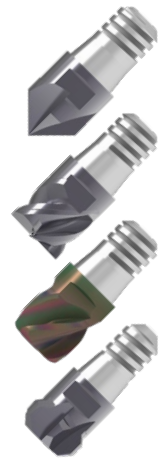


*ZEFP = Number of teeth

Solid Carbide milling cutters

- ▲ Solid carbide shoulder mills
 Type N, PCR-UNI, PCR-ALU / Ø 8, 10, 12, 16, 20 mm / ZEFP* 3+4
- ▲ Solid carbide rough and finish milling cutters
 Ø 8, 10, 12, 16, 20 mm / ZEFP* 4–6
- ▲ Solid carbide finish milling cutters
 Ø 8, 10, 12, 16, 20 mm / ZEFP* 6
- ▲ Solid carbide high-feed cutters
 Ø 8, 10, 12, 16, 20 mm / ZEFP* 6
- ▲ Solid carbide ball-nosed end mills
 Ø 10, 12, 16, 20 mm / ZEFP* 4
- ▲ Solid carbide torus bull nose milling cutters
 Ø 8, 10, 12, 16, 20 mm / ZEFP* 3+4
- ▲ Solid carbide quarter round cutter
 Ø 8, 10, 12, 16, 20 mm
- ▲ Solid carbide deburring cutters
 Ø 10, 12, 16, 20 mm / ZEFP* 4+6

→ **Chapter 14, Solid carbide milling cutters**



*ZEFP = Number of teeth

Tool holder



- ▲ Steel Holder Extra Short
 Cylindrical / Tapered 87°
 Length 60–90 mm
 for SZID 8, 10, 12, 16, 20 mm **249+250**



- ▲ Short Holder Steel / Solid Carbide
 cylindrical
 Length 85–120 mm
 for SZID 8, 10, 12, 16, 20 mm **250+251**



- ▲ Holder Steel / Solid Carbide, Short
 87° taper
 Length 85–120 mm
 for SZID 8, 10, 12, 16, 20 mm **249**



- ▲ Solid Carbide Holder Medium
 Cylindrical / Tapered 87°
 Length 110–150 mm
 for SZID 8, 10, 12, 16, 20 mm **249+251**



- ▲ Holder Steel/Solid Carbide, Long
 cylindrical
 Length 150–200 mm
 for SZID 8, 10, 12, 16, 20 mm **250+251**



- ▲ Holder Steel/Solid Carbide, Long
 87° taper
 Length 150–200 mm
 for SZID 8, 10, 12, 16, 20 mm **249**



- ▲ Steel / Solid Carbide Holder Extra Long
 cylindrical
 Length 200–250 mm
 For Ø 16 and 20 mm **250+251**

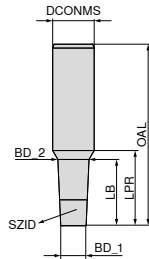
MultiChange – Holders

▲ Tapered 87°

▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel



84 001 ...



Steel



84 004 ...



Solid carbide



84 005 ...



Solid carbide



84 007 ...



Solid carbide



84 010 ...

SZID	BD_1 mm	BD_2 mm	DCONMS mm	OAL mm	LB mm	LPR mm					
06	7,8	9,4	10	60	18	19					
06	7,8	9,4	10	85	43	44					
06	7,8	9,4	10	110	68	69					
06	7,8	9,4	10	150	108	109					
08	9,8	12,0	16	70	25	29					
08	9,8	13,0	16	90	38	41					
08	9,8	14,9	16	110	60	61					
08	9,8	15,4	16	150	100	101					
10	11,8	14,2	16	70	27	29					
10	11,8	15,2	16	90	40	41					
10	11,8	16,6	20	110	56	59					
10	11,8	19,5	20	150	98	99					
12	15,8	18,2	20	80	27	29					
12	15,8	19,5	20	105	53	54					
12	15,8	19,5	20	130	78	79					
12	15,8	19,5	20	150	98	99					
16	19,8	23,2	25	90	39	41					
16	19,8	24,5	25	120	60	61					
16	19,8	24,5	25	150	90	91					
16	19,8	24,5	25	200	140	141					



Assembly instructions can be found on → **Page 282**

Accessories



insertion key



Adjustable wrench

→ 282

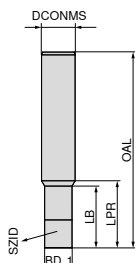
→ 282

MultiChange – Holders

- ▲ cylindrical
- ▲ Only suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel



84 000 ...



Steel



84 002 ...



Steel



84 008 ...



Steel



84 011 ...

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

080

080

080

100

100

100

120

120

120

160

160

160

200

200

200

160

200



Assembly instructions can be found on → **Page 282**

Accessories



insertion key

→ 282



Adjustable wrench

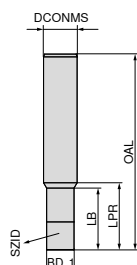
→ 282

MultiChange – Holders

- ▲ cylindrical
- ▲ Only suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Solid carbide



84 003 ...

080

100

120

160

200



Solid carbide



84 006 ...

080

100

120

160

200



Solid carbide



84 009 ...

080

100

120

160

200



Solid carbide



84 012 ...

160

200

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

 Assembly instructions can be found on → **Page 282**

Accessories



insertion key

→ 282



Adjustable wrench

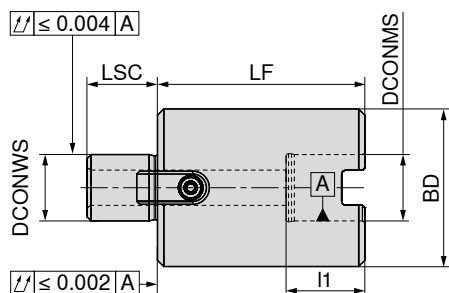
→ 282

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



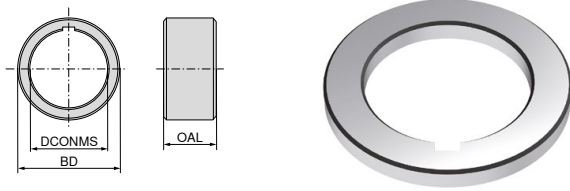
						82 648 ...
DCONWS _{h5} mm	DCONMS _{h5} mm	LF mm	BD mm	LSC mm	I ₁ mm	
16	16	75	38	17	19	075
16	16	50	38	17	19	050
22	22	50	48	19	21	150
22	22	75	48	19	21	175
27	27	75	58	21	23	275
27	27	50	58	21	23	250
32	32	75	78	24	26	375
32	32	50	78	24	26	350
40	40	50	88	27	29	450
40	40	75	88	27	29	475

		Screw for drivers		Driver		Retaining screw		Retaining screw	
		83 950 ...		83 950 ...		82 649 ...		82 649 ...	
Spare parts for Article no.									
82 648 075	M3x8	296	8x9x17,5	120			M8x100	075	
82 648 050	M3x8	296	8x9x17,5	120	M8x125	001	M8x80	050	
82 648 150	M4x12	297	10x11x20,5	121	M10x125	100	M10x80	150	
82 648 175	M4x12	297	10x11x20,5	121			M10x100	175	
82 648 275	M5x12	136	12x13x24,3	122			M12x100	275	
82 648 250	M5x12	136	12x13x24,3	122	M12x125	200	M12x80	250	
82 648 375	M5x20	137	14x21x21,2	123			M16x100	375	
82 648 350	M5x20	137	14x21x21,2	123	M16x125	300	M16x80	350	
82 648 450	M6x16	138	15,9x16,3x19,5	295					
82 648 475	M6x16	138	15,9x16,3x19,5	295					



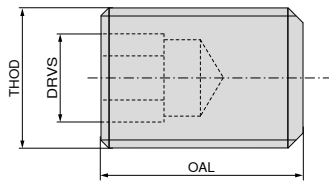
When using two extension pieces (max. 2 x 50 mm) please use a tightening bolt with a length of 125 mm.

Milling Adapter Rings DIN 2084 Form B



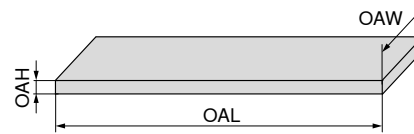
83 385 ...			
DCONMS mm	BD mm	OAL mm	
13	22	2	013
	22	3	113
	22	4	213
	22	5	313
	22	6	413
	22	10	513
16	26	2	016
	26	3	116
	26	4	216
	26	5	316
	26	6	416
	26	10	516
	26	20	616
	26	30	716
22	34	2	022
	34	3	122
	34	4	222
	34	5	322
	34	6	422
	34	10	522
	34	20	622
	34	30	722
27	41	2	027
	41	3	127
	41	4	227
	41	5	327
	41	6	427
	41	10	527
	41	20	627
	41	30	727
32	47	2	032
	47	3	132
	47	4	232
	47	5	332
	47	6	432
	47	10	532
	47	20	632
	47	30	732
40	55	2	040
	55	3	140
	55	4	240
	55	5	340
	55	6	440
	55	10	540
	55	20	640
	55	30	740

Screw for cylindrical adaptors E2



Levelling plates

- ▲ For axial and radial tool holders
- ▲ Without mounting thread



THOD	OAL mm	DRVS mm	83 950 ...
M6	12	3	461
M6	16	3	462
M6	25	3	463
M8	10	4	464
M8	12	4	465
M8	16	4	466
M8	20	4	467
M8	25	4	468
M8	30	4	469
M10	16	5	470
M10	20	5	471
M10	25	5	472
M10	30	5	473
M12	12	6	474
M12	16	6	475
M12	20	6	476
M12	25	6	477

OAH mm	OAL mm	OAW mm	83 950 ...
4	38	14	210
4	48	14	211
4	54	14	212
4	55	12	213
4	69	16	214
4	72	14	215
4	75	12	216
4	99	16	217
5	84	20	218
5	117	20	219
7	99	25	220
7	120	25	221
7	129	25	222
7	143	25	223

Clamping screw for cylindrical adaptors E1



THOD	83 950 ...
M10x1x10	180
M12x1x12	181
M16x1x13	182

Lock nut with external thread form ER for sealing rings with internal cooling



83 950 ...

for collet	THOD	DRVS mm	
ER 16	M24x1	19	45600
ER 20	M28x1,5	22	45700
ER 25	M32x1,5	24	45800
ER 32	M40x1,5	32	45900

Ball-shaped spray nozzle



83 950 ...

Ø 8 - M 5	200
Ø 10 - M 6	201
Ø 14 - M 8	202

Pipe joints

▲ steel pipe



83 950 ...

THOD	CXD mm	Type	
M8x1	5	A	372
M10x1	6	A	373
M10x1	8	A	374
M8x1	5	B	375
M10x1	6	B	376
M10x1	8	B	377

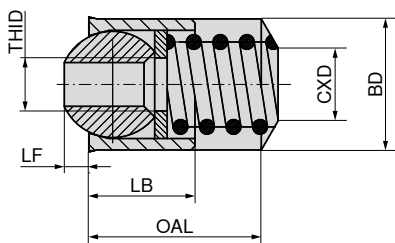
O-Ring



83 950 ...

Adapter	Size	
VDI 16	15 x 1,5	205
VDI 20	18,77 x 1,78	206
VDI 30	28,3 x 1,78	207
VDI 40	37,77 x 2,62	208
VDI 50	47,29 x 2,62	209

Spray nozzle element



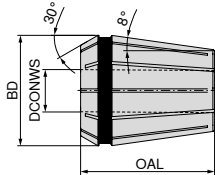
83 950 ...

BD mm	THID	OAL mm	LB mm	LF mm	CXD mm	
9.88	M4	13	8	2.2	5.5	247
11.88	M6	15	10	3.0	6.8	248
13.88	M6	17	12	4.0	6.8	249

Precision ER collet for precision collet chuck – 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



	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 ...
DCONWS						
mm						
1,0	010	010	010			
1,1			011			
1,2			012			
1,4			014			
1,5	015	015	015			
1,6			016			
1,8			018			
2,0	020	020	020	020	020	
2,2			022			
2,4			024			
2,5	025	025	025	025		
2,6			026			
2,8			028			
3,0	030	030	030 ¹⁾	030	030	030
3,2			032			
3,4			034			
3,5	035	035	035	035		
3,6			036			
3,8			038			
4,0	040	040	040 ¹⁾	040	040 ¹⁾	040
4,5	045	045	045	045		
5,0	050	050	050 ¹⁾	050	050	050
5,5		055	055	055		
5,6			056			
6,0		060	060 ¹⁾	060 ¹⁾	060 ¹⁾	060
6,3			063			
6,5		065	065	065		
7,0		070	070 ¹⁾	070	070	070
7,1			071			
7,5			075	075		
8,0			080 ¹⁾	080 ¹⁾	080 ¹⁾	080
8,5			085	085		
9,0			090	090	090	090
9,5			095	095		
10,0			100 ¹⁾	100 ¹⁾	100 ¹⁾	100
10,5				105		
11,0				110	110	110
11,5				115		
12,0				120 ¹⁾	120 ¹⁾	120
12,5				125		
13,0				130	130	130
13,5				135		
14,0				140 ¹⁾	140 ¹⁾	140
14,5				145		
15,0				150	150	150
15,5				155		
16,0				160 ¹⁾	160 ¹⁾	160
17,0					170	170
18,0					180	180
19,0					190	190
20,0					200 ¹⁾	200
21,0						210
22,0						220
23,0						230
24,0						240
25,0						250
26,0						260
Set in wooden box			999	999	999	

1) Included in the set

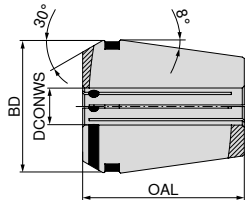


Clamping range covered: H10 corresponding to shank Ø DCONWS

ER precision collet, sealed, for precision collet chuck – Centro-P

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ Coloured ring as identification of precision collet
- ▲ $p_{\max} = 120$ bar
- ▲ Coated precision collet

ER-A
2 μ m

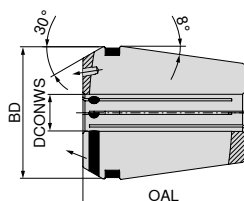


DCONWS mm	BD = 11,3 OAL = 18 425 E / ER11		BD = 16,7 OAL = 27,5 425 E / ER16		BD = 25,7 OAL = 34 429 E / ER25		BD = 32,7 OAL = 40 469 E / ER32		BD = 40,7 OAL = 46 471 E / ER40	
	84 536 ...		84 537 ...		84 538 ...		84 539 ...		84 540 ...	
3	030		030		030		030			
4	040		040		040		040			
5	050		050		050		050			
6	060		060		060		060		060	
7			070		070		070			
8			080		080		080		080	
9			090		090		090			
10			100		100		100		100	
11					110		110			
12					120		120		120	
13					130		130			
14					140		140		140	
15					150		150			
16					160		160		160	
17							170			
18							180		180	
19							190			
20							200		200	
22									220	
25									250	

ER precision collet, sealed with coolant channels, for precision collet chuck – Centro-P

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ Coloured ring as identification of precision collet
- ▲ Coated precision collet

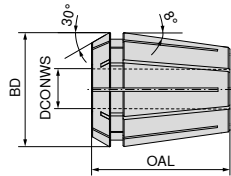
ER-A
2 µm



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	
	84 547 ...	84 548 ...	84 549 ...	84 550 ...	84 551 ...					
3	03000	03000								
4	04000	040	040	040						
6	06000	060	060	060					06000	
8		080	080	080					08000	
10		10000	100	100					100	
12			120	120					120	
14			140	140						
16			16000	160					160	
18				180						
20				200					200	
25					250					

ER precision collet

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coated collet

ER-B
5 µm

	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
	84 576 ...	84 578 ...	84 579 ...	84 580 ...	84 581 ...	84 582 ...
DCONWS mm						
1,0	010	010	010 ¹⁾	010 ¹⁾		
1,5	015	015 ¹⁾	015 ¹⁾	015 ¹⁾		
2,0	020	020	020	020	020 ¹⁾	
2,5	025	025 ¹⁾	025 ¹⁾	025	025 ¹⁾	
3,0	030	030	030	030	030	030 ¹⁾
3,5	035					
4,0	040	040	040	040	040	040
4,5	045					
5,0	050	050	050	050	050	050
5,5	055					
6,0	060	060	060	060	060	060
6,5	065					
7,0	070	070	070	070	070	070
8,0		080	080	080	080	080
9,0		090	090	090	090	090
10,0		100	100	100	100	100
11,0			110	110	110	110
12,0			120	120	120	120
13,0			130	130	130	130
14,0				140	140	140
15,0				150	150	150
16,0				160	160	160
17,0					170	170
18,0					180	180
19,0					190	190
20,0					200	200
21,0						210
22,0						220
23,0						230
24,0						240
25,0						250
26,0						260
Set in wooden box	999	999	999	999	999	999

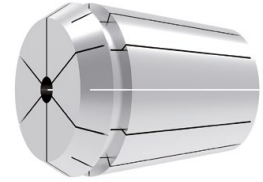
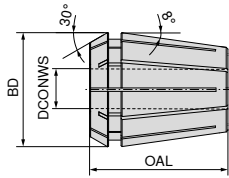
1) not included in the set



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	
	82 666 ...		82 663 ...		82 664 ...		82 665 ...	
1,0	01000		01000					
1,5	01500							
2,0	02000		02000		02000			
2,5	02500							
3,0	03000		03000		03000		03000	
3,5	03500							
4,0	04000		04000		04000		04000	
4,5	04500							
5,0	05000		05000		05000		05000	
6,0			06000		06000		06000	
7,0			07000		07000		07000	
8,0			08000		08000		08000	
9,0			09000		09000		09000	
10,0			10000		10000		10000	
11,0					11000		11000	
12,0					12000		12000	
13,0					13000		13000	
14,0					14000		14000	
15,0					15000		15000	
16,0					16000		16000	
17,0							17000	
18,0							18000	
19,0							19000	
20,0							20000	
Set in wooden box	99900		99900		99900		99900	

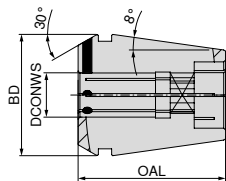


Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

ER precision tap collet

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ $p_{max} = 120$ bar
- ▲ Coated collet

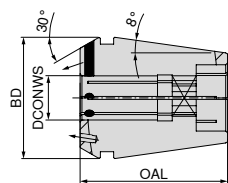
ER-A
10 µm



DCONWS mm	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	
	84 531 ...		84 533 ...		84 534 ...	
2,8	028					
3,5	035		035			
4,0	040		040		040	
4,5	045		045		045	
6,0	060		060		060	
7,0	070		070		070	
8,0	080		080		080	
9,0	090		090		090	
10,0			100		100	
11,0			110		110	
12,0			120		120	
14,0			140		140	
16,0			160		160	
18,0					180	
20,0					200	

ER precision collet, sealed with coolant channels

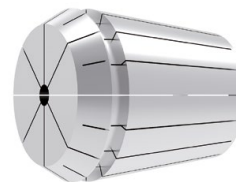
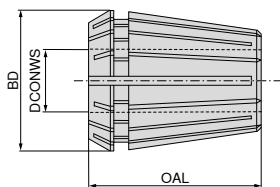
- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ Coated collet

ER-A
10 µm

DCONWS mm	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	
	84 567 ...		84 568 ...		84 569 ...	
3,5		035				
4,5		045		045		045
6,0		060		060		060
7,0		070		070		070
8,0		080		080		080
9,0		09000		090		090
10,0				100		100
11,0				110		110
12,0				120		120
14,0				140		140
16,0				16000		160
18,0						180
20,0						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				
	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
	82 673 ...	82 674 ...	82 675 ...	82 676 ...	82 677 ...
1	01000	01000 ¹⁾			
2	02000	02000	02000		
3	03000	03000	03000	03000	03000
4	04000	04000	04000	04000	04000
5	05000	05000	05000	05000	05000
6	06000	06000	06000	06000	06000
7	07000	07000	07000	07000	07000
8	08000	08000	08000	08000	08000
9	09000	09000	09000	09000	09000
10	10000	10000	10000	10000	10000
11		11000	11000	11000	11000
12		12000	12000	12000	12000
13		13000	13000	13000	13000
14			14000	14000	14000
15			15000	15000	15000
16			16000	16000	16000
17				17000	17000
18				18000	18000
19				19000	19000
20				20000	20000
21					21000
22					22000
23					23000
24					24000
25					25000
26					26000
Set in wooden box	99900	99900	99900	99900	99900

1) not included in the set

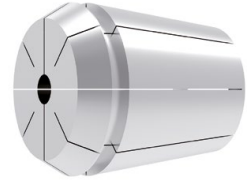
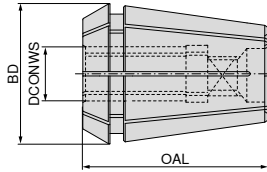


Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

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	
	82 650 ...		82 651 ...		82 652 ...	
4,5	04500		04500			
5,5	05500		05500			
6,0	06000		06000			
7,0	07000		07000		07000	
8,0	08000		08000		08000	
9,0	09000		09000		09000	
10,0	10000		10000		10000	
11,0	11000		11000		11000	
12,0	12000		12000		12000	
14,0			14000		14000	
16,0			16000		16000	
18,0					18000	
20,0					20000	

Wooden boxes for collets

- ▲ For collets form A+B

Scope of supply:

empty wooden box

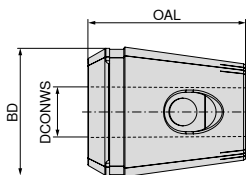


for collet		Piece	83 689 ...	
4004E (ER08)	9		008	
4008E (ER11)	13		011	
426E (ER16)	10		116	
428E (ER20)	11		020	
430E (ER25)	14		025	
470E (ER32)	18		032	
472E (ER40)	24		040	

ER wedge collet with pull out protection, for precision collet chucks – Centro-P – HDC

- ▲ Similar to DIN ISO 15488-A
- ▲ Slotted
- ▲ Double taper collet

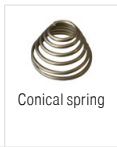
ER
5 µm



BD = 32,7
OAL = 40
ER 32

83 629 ...

DCONWS mm	
12	120
16	160



Conical spring

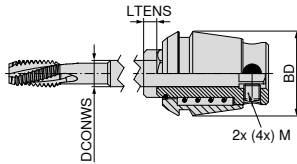
83 950 ...

Spare parts DCONWS		
12	CP 32	455
16	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	022	022			
2,5	025	025	025		
2,8	028	028	028		
3,0	030	030	030		
3,5	035	035	035		
4,0	040	040	040		
4,5	045	045	045	045	
5,0				050	
5,5	055	055	055	055	
6,0	060	060	060	060	060
7,0		070	070	070	070
8,0			080	080	080
9,0			090	090	090
10,0			100	100	100
11,0				110	110
12,0				120	120
14,0					140
16,0					160

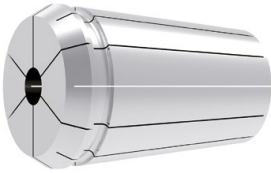
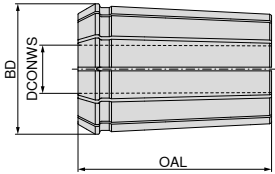


When using CNC machines apply canned cycles with a feed rate or pitch of only 95 % with small threads and up to 99 % with large threads. In this way when reversing the rotation of the spindle an optimum length compensation in both directions is guaranteed.

OZ Precision collet for precision collet chuck – Centro-P

- ▲ DIN ISO 10897-B (old DIN 6388-B)
- ▲ $\varnothing = 10\text{ mm}$ 10 slots, $\varnothing > 10\text{ mm}$ 12 slots
- ▲ Double angle collets

OZ-B
3 μm



BD = 35,05
OAL = 52
462 E / OZ

83 660 ...

DCONWS

mm

3
4
6
8
10
12
14
16
18
20
25

030
040
060
080
100
120
140
160
180
200
250

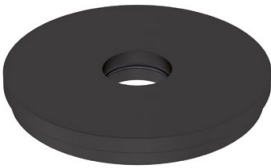
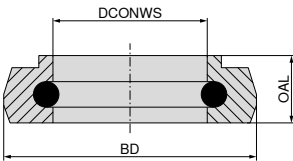


Clamping range covered: H10 corresponding to shank $\varnothing$ DCONWS

Sealing ring for OZ Collet Chuck 462E – Centro-P

- ▲ For use for sealing tools with through coolant
- ▲ Seal diameter: Nominal diameter – 0.5 mm
- ▲ use up to 150 bar

OZ-B
5 μm



BD = 31
OAL = 4
462E

83 675 ...

DCONWS

mm

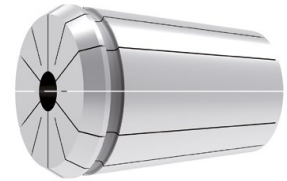
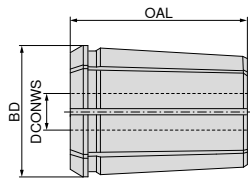
4
5
6
8
10
12
14
16
18
20
22
25

040
050
060
080
100
120
140
160
180
200
220
250

OZ-collets

▲ DIN ISO 10897-B (old DIN 6388-B)

▲ Ø = 10 mm 10 slots, Ø > 10 mm 12 slots



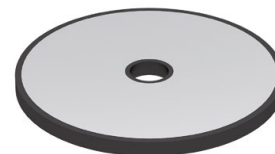
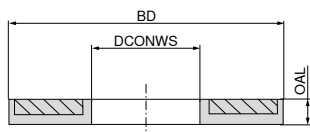
DCONWS mm	OZ-B 6 µm		OZ-B 6 µm		OZ-B 10 µm		NEW OZ-B 20 µm		NEW OZ-B 20 µm		NEW OZ-B 20 µm	
	BD = 25,5 OAL = 40 415 E / OZ		BD = 35,05 OAL = 52 462 E / OZ		BD = 43,7 OAL = 60 467 E / OZ		BD = 25,5 OAL = 40 415 E / OZ		BD = 35,05 OAL = 52 462 E / OZ		BD = 43,7 OAL = 60 467 E / OZ	
	83 651 ...		83 652 ...		83 653 ...		82 653 ...		82 654 ...		82 655 ...	
2,0							02000		02000			
2,5							02500		02500			
3,0	030						03000		03000			
3,5							03500		03500			
4,0	040		040				04000		04000		04000	
4,5							04500		04500		04500	
5,0	050		050				05000		05000		05000	
5,5							05500		05500		05500	
6,0	060		060				06000		06000		06000	
6,5							06500		06500		06500	
7,0							07000		07000		07000	
7,5							07500		07500		07500	
8,0	080		080				08000		08000		08000	
8,5							08500		08500		08500	
9,0							09000		09000		09000	
9,5							09500		09500		09500	
10,0	100		100		100		10000		10000		10000	
10,5							10500		10500		10500	
11,0							11000		11000		11000	
11,5							11500		11500		11500	
12,0	120		120		120		12000		12000		12000	
12,5							12500		12500		12500	
13,0							13000		13000		13000	
13,5							13500		13500		13500	
14,0			140		140		14000		14000		14000	
14,5							14500		14500		14500	
15,0							15000		15000		15000	
15,5							15500		15500		15500	
16,0	160		160		160		16000		16000		16000	
16,5									16500		16500	
17,0									17000		17000	
17,5									17500		17500	
18,0			180		180				18000		18000	
18,5									18500		18500	
19,0									19000		19000	
19,5									19500		19500	
20,0			200		200				20000		20000	
20,5									20500		20500	
21,0									21000		21000	
21,5									21500		21500	
22,0									22000		22000	
22,5									22500		22500	
23,0									23000		23000	
23,5									23500		23500	
24,0									24000		24000	
24,5									24500		24500	
25,0			250		250				25000		25000	
25,5											25500	
26,0											26000	
26,5											26500	
27,0											27000	
27,5											27500	
28,0											28000	
28,5											28500	
29,0											29000	
29,5											29500	
30,0					300						30000	
30,5											30500	
31,0											31000	
31,5											31500	
32,0					320						32000	



The collet has a clamping range of 0.5 mm (+0.1 / -0.4 mm)

Sealing discs for precision collet chucks – Centro-P

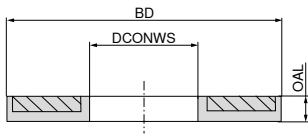
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



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)
	83 690 ...	83 694 ...	83 691 ...	83 692 ...	83 693 ...
1,0	010				
1,5	015				
2,0	020	020	020	020	
2,5	025	025	025	025	
3,0	030	030	030	030	030
3,5	035	035	035	035	035
4,0	040	040	040	040	040
4,5	045	045	045	045	045
5,0	050	050	050	050	050
5,5	055	055	055	055	055
6,0	060	060	060	060	060
6,5	065	065	065	065	065
7,0	070	070	070	070	070
7,5	075	075	075	075	075
8,0	080	080	080	080	080
8,5	085	085	085	085	085
9,0	090	090	090	090	090
9,5	095	095	095	095	095
10,0	100	100	100	100	100
10,5		105	105	105	105
11,0		110	110	110	110
11,5		115	115	115	115
12,0		120	120	120	120
12,5		125	125	125	125
13,0		130	130	130	130
13,5			135	135	135
14,0			140	140	140
14,5			145	145	145
15,0			150	150	150
15,5			155	155	155
16,0			160	160	160
16,5				165	165
17,0				170	170
17,5				175	175
18,0				180	180
18,5				185	185
19,0				190	190
19,5				195	195
20,0				200	200
20,5					205
21,0					210
21,5					215
22,0					220
22,5					225
23,0					230
23,5					235
24,0					240
24,5					245
25,0					250
25,5					255
26,0					260

Sealing rings for precision collet chucks – PCC

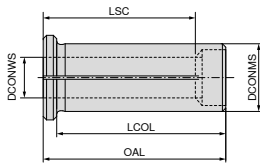
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 100 bar



DCONWS mm	NEW		
	BD = 13 OAL = 4 426E (ER16)	BD = 21 OAL = 4 430E (ER25)	BD = 27 OAL = 4 470E (ER32)
	82 630 ...	82 631 ...	82 632 ...
3,0	03000	03000	03000
3,5	03500	03500	03500
4,0	04000	04000	04000
4,5	04500	04500	04500
5,0	05000	05000	05000
5,5	05500	05500	05500
6,0	06000	06000	06000
6,5	06500	06500	06500
7,0	07000	07000	07000
7,5	07500	07500	07500
8,0	08000	08000	08000
8,5	08500	08500	08500
9,0	09000	09000	09000
9,5	09500	09500	09500
10,0	10000	10000	10000
10,5		10500	10500
11,0		11000	11000
11,5		11500	11500
12,0		12000	12000
12,5		12500	12500
13,0		13000	13000
13,5		13500	13500
14,0		14000	14000
14,5		14500	14500
15,0		15000	15000
15,5		15500	15500
16,0		16000	16000
16,5			16500
17,0			17000
17,5			17500
18,0			18000
18,5			18500
19,0			19000
19,5			19500
20,0			20000

Reducing sleeves for hydraulic and high pressure chucks

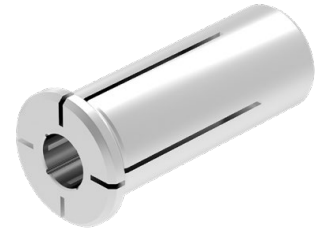
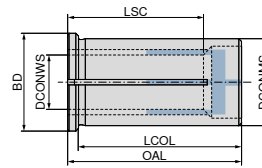
▲ Thro' coolant to 80 bar



83 609 ...					
DCONMS	DCONWS	OAL	LCOL	LSC	
mm	mm	mm	mm	mm	
12	3	40	36	29	103
12	4	40	36	29	104
12	5	40	36	29	105
12	6	40	36	36	106
12	8	40	36	37	108
20	3	54	50	28	203
20	4	54	50	28	204
20	5	54	50	28	205
20	6	54	50	36	206
20	8	54	50	37	208
20	10	54	50	40	210
20	12	54	50	45	212
20	14	54	50	45	214
20	16	54	50	48	216
25	6	60	56	37	256
25	8	60	56	37	258
25	10	60	56	40	260
25	12	60	56	46	262
25	14	60	56	47	264
25	16	60	56	48	266
25	18	60	56	48	268
25	20	60	56	50	270
32	6	64	60	36	306
32	8	64	60	36	308
32	10	64	60	40	310
32	12	64	60	45	312
32	14	64	60	46	314
32	16	64	60	48	316
32	18	64	60	49	318
32	20	64	60	50	320
32	25	64	60	56	325

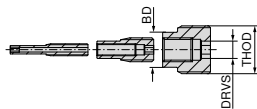
Reduction sleeves with coolant hole for hydraulic and high pressure chucks

▲ with coolant holes, for flexible diameter application



83 611 ...					
DCONMS	DCONWS	BD	OAL	LCOL	LSC
mm	mm	mm	mm	mm	mm
12	3	16	44	40	29
12	4	16	44	40	29
12	5	16	44	40	29
12	6	16	44	40	36
12	8	16	44	40	37
20	3	25	54	50	28
20	4	25	54	50	28
20	5	25	54	50	28
20	6	25	54	50	36
20	8	25	54	50	37
20	10	25	54	50	40
20	12	25	54	50	45
20	14	25	54	50	45
20	16	25	54	50	48
32	6	36	64	60	36
32	8	36	64	60	36
32	10	36	64	60	40
32	12	36	64	60	45
32	14	36	64	60	46
32	16	36	64	60	48
32	18	36	64	60	49
32	20	36	64	60	50
32	25	36	64	60	56

Stop screw for use with reducing sleeves in hydraulic chuck



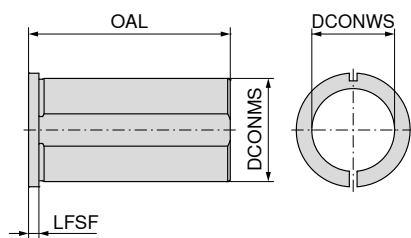
83 950 ...			
THOD	BD	DRVS	
	mm	mm	
M4x0,5x26	2,8	2	425
M8x1x19	5,8	2,5	428
M10x1x16	5,8	3	426
M16x1x16	11,7	5	427

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

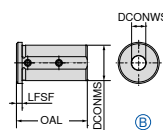
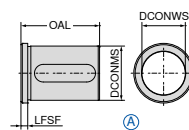
Slotted reduction sleeves

- ▲ For cylindrical and other tool holders
- ▲ For tools with cylindrical shank



Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank



				83 271 ...
DCONMS mm	DCONWS mm	OAL mm	LFSF mm	
20	6	30	4	206
20	8	30	4	208
20	10	30	4	210
20	12	30	4	212
20	15	30	4	215
20	16	30	4	216
25	6	40	4	256
25	8	40	4	258
25	10	40	4	260
25	12	40	4	262
25	15	40	4	265
25	16	40	4	266
25	20	40	4	270
32	6	50	4	326
32	8	50	4	328
32	10	50	4	330
32	12	50	4	332
32	15	50	4	335
32	16	50	4	336
32	20	50	4	340
40	10	78	4	410
40	12	78	4	412
40	15	78	4	415
40	16	78	4	416
40	20	78	4	420
40	25	78	4	425
40	32	78	4	432
50	20	88	4	520
50	25	88	4	525
50	32	88	4	532
50	40	88	4	540

				83 272 ...
DCONMS mm	DCONWS mm	OAL mm	LFSF mm	Fig.
25	6	50	4	B
25	8	50	4	B
25	10	50	4	B
25	12	50	4	B
25	14	50	4	A
25	16	50	4	A
25	20	50	4	A
32	6	58	5	B
32	8	58	5	B
32	10	58	5	B
32	12	58	5	B
32	16	58	5	A
32	20	58	5	A
32	25	58	5	A
40	8	58	5	B
40	10	58	5	B
40	12	58	5	B
40	16	58	5	A
40	20	58	5	A
40	25	58	5	A
40	32	58	5	A
50	12	75	5	B
50	16	75	5	A
50	20	75	5	A
50	25	75	5	A
50	32	75	5	A
50	40	75	5	A

Taper wiper

▲ Version made from hard wood with suede inserts



83 715 ...

Adapter	
MK 1	001
MK 2	002
MK 3	003
MK 4	004
MK 5	005
HSK 100	100
HSK 32	320
HSK 40	400
HSK 50	500
HSK 63	630
HSK 80	800
SK 30	130
SK 40	140
SK 50	150

Assembly device for ISO adaptors

▲ Aluminium

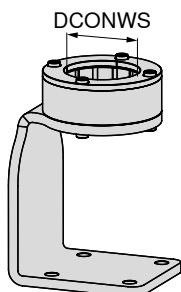


80 720 ...

Adapter	
SK 30	030
SK 40	040
SK 50	050

Assembly fixture for tool holders

- ▲ gripping by roller
- ▲ secure clamping
- ▲ quick assembly, no additional clamping necessary



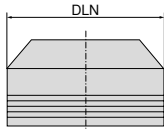
80 722 ...

Holder Type	DCONWS mm	
HSK 32, PSC 32	32,0	032
HSK 40, PSC 40	40,0	040
MAS-BT 30	46,0	046
ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50	50,0	050
ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63,0	063
ISO 7388-1 - SK 50	97,5	097
HSK 100, MAS-BT 50, ANSI-CAT 50	100,0	100



Safety Note: The clamping devices must be free of oil and grease to avoid slipping!

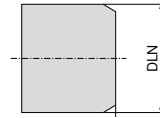
ER Standard lock nut for precision collet chuck – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...	84 950 ...
426E (ER16)	1 - 10	30	80	001	011
430E (ER25)	2 - 16	40	90	003	013
470E (ER32)	2 - 20	50	180	005	015
472E (ER40)	3 - 26	63	200	007	017

Mini lock nut for precision collet chuck – Centro-P



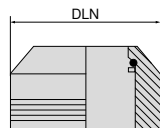
for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...	84 950 ...
4004E (ER08)	1 - 5	10	5 - 8	040	
4008E (ER11)	1 - 7	16	10	041	
4008E (ER11)	Ø 3,0	16	10	042 ¹⁾	
4008E (ER11)	Ø 4,0	16	10	043 ¹⁾	
4008E (ER11)	Ø 5,0	16	10	044 ¹⁾	
4008E (ER11)	Ø 6,0	16	10	045 ¹⁾	
4008E (ER11)	Ø 7,0	16	10	046 ¹⁾	
426E (ER16)	1 - 10	22	30	034	
426E (ER16)	1 - 10	22	28		035

1) directly sealed

OZ Standard lock nut for precision collet chuck – Centro-P

▲ can be used without sealing ring



for seals

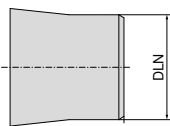
for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...	84 950 ...
462E (OZ)	2 - 25	50	200	009	
462E (OZ)	2 - 25	50	140		020

Collet removal aid for Mini lock nut for precision collet chuck – Centro-P



for collet	84 950 ...
4004E (ER08)	070
4008E (ER11)	072

Tapered lock nut for precision collet chuck – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...	84 950 ...
426E (ER16)	1 - 10	24	80	031	033

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	
4004E / ER08 CP mini	10	050
4008E / ER 11 CP mini / mini	16	080 ¹⁾
426E / ER 16 CP / ER 16 mini	22	026
426E / ER 16 CP / CP mini	24	082 ²⁾
426E / ER 16 CP	30	027
426E / ER 16 STD	32	028
428E / ER 20 STD	35	029
430E / ER 25 CP	40	054
430E / ER 25 STD	42	055
470E / ER 32 CP + STD / OZ 462E CP	50	056
470E / ER 32 HDC	53	30200
472E / ER 40 CP + STD	63	057

1) Special key for mini lock nuts

2) Key for tapered lock nuts / Special key for mini lock nuts

Torque key



84 435 ...		
TQX Nm	Square mm	
5 - 30	9 x 12	030
10 - 80	9 x 12	080
20 - 200	14 x 18	200

Additional roll key device for torque key

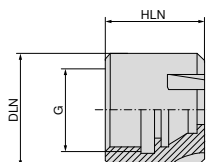
- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



84 950 ...				
for lock nut	DLN mm	TQX Nm	Square mm	
4008E / ER 11 CP	16	5 - 30	9 x 12	060 ¹⁾
426E / ER 16 CP / ER 16 mini	22	5 - 30	9 x 12	170
426E / ER 16 CP	24	10 - 80	9 x 12	061 ¹⁾
426E / ER 16 CP	30	20 - 200	14 x 18	171
426E / ER 16 STD	32	20 - 200	14 x 18	172
426E / ER 20 STD	35	20 - 200	14 x 18	173
430E / ER 25 CP	40	20 - 200	14 x 18	065
430E / ER 25 STD	42	20 - 200	14 x 18	066
470E / ER 32 CP + STD / OZ 462E CP	50	20 - 200	14 x 18	067
470E / ER 32 HDC	53	20 - 200	14 x 18	30300
472E / ER 40 CP + STD	63	20 - 200	14 x 18	068

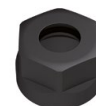
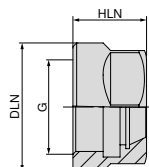
1) for mini and tapered lock nuts

Mini ER lock nut



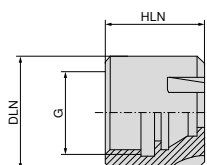
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	62 950 ...
4004E (ER08)	M10x0,75	12	11.0	8	067
4008E (ER11)	M13x0,75	16	12.0	18	065
426E (ER16)	M19x1	22	18.0	28	066
428E (ER20)	M24x1	28	19.5	35	068
430E (ER25)	M30x1	35	21.0	40	069

ER Lock nut



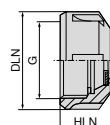
for collet	THSZMS	DRVS mm	DLN mm	HLN mm	62 950 ...
426E (ER16)	M22x1,5	25	28	18.0	044
428E (ER20)	M25x1,5	30	34	19.5	045

Mini ER lock nut for sealing rings



for collet	THSZMS	DLN mm	HLN mm	TQX Nm	83 950 ...
426E (ER16-DS)	M19x1	22	22.0	28	058
428E (ER20-DS)	M24x1	28	23.2	35	059
430E (ER25-DS)	M30x1	35	24.7	40	060

ER Lock nut

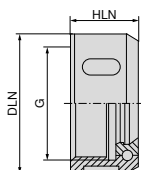


for seals

for collet	THSZMS	DLN mm	HLN mm	62 950 ...	83 950 ...
426E (ER16)	M22x1,5	32	17.0	054	
426E (ER16)	M22x1,5	32	22.0		054
428E (ER20)	M25x1,5	35	23.2		053
430E (ER25)	M32x1,5	42	20.0	055	
430E (ER25)	M32x1,5	42	24.7		055
470E (ER32)	M40x1,5	50	22.3	056	
470E (ER32)	M40x1,5	50	27.0		056
472E (ER40)	M50x1,5	63	25.3	057	
472E (ER40)	M50x1,5	63	30.7		057

OZ lock nut Form B + C

▲ with ball bearings



for collet	THSZMS	DLN mm	HLN mm	TQX Nm	62 950 ...
415E / 421E (OZ)	M33x1,5	43	24.0	85	050
459E / 462E (OZ)	M48x2	60	30.0	140	051
460E / 467E (OZ)	M60x2,5	72	33.5	170	052

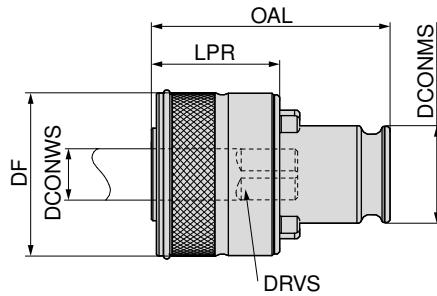
Y clamping key



for lock nut	83 357 ...
ER 16	116
ER 20	12000
ER 25	125
ER 32	132
ER 40	140

Quick change tap adapter with overload clutch

- ▲ Adapter with adjustable overload clutch
- ▲ for use with taps

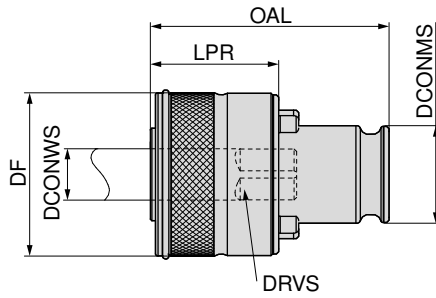


83 612 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	
01	2,8	2,1	M2		33	19	46,5	25	100
01	2,8	2,1	M2,5		33	19	46,5	25	101
01	3,5	2,7	M3		33	19	46,5	25	102
01	4,0	3,0	M3,5		33	19	46,5	25	103
01	4,5	3,4	M4		33	19	46,5	25	104
01	6,0	4,9	M4,5		33	19	46,5	25	105
01	6,0	4,9	M5		33	19	46,5	25	106
01	4,5	3,4		M6	33	19	46,5	25	107
01	6,0	4,9	M6		33	19	46,5	25	108
01	5,5	4,3		M7	33	19	46,5	25	109
01	7,0	5,5	M7		33	19	46,5	25	110
01	6,0	4,9		M8	33	19	46,5	25	111
01	8,0	6,2	M8		33	19	46,5	25	112
01	9,0	7,0	M9		33	19	46,5	25	113
01	7,0	5,5		M10	33	19	46,5	25	114
01	10,0	8,0	M10		33	19	46,5	25	115
01	8,0	6,2		M11	33	19	46,5	25	116
01	9,0	7,0		M12	33	19	46,5	25	117
02	6,0	4,9	M4,5 - M6		50	31	69,0	34	200
02	6,0	4,9	M7 (DIN 352)		50	31	69,0	34	201
02	7,0	5,5	M7		50	31	69,0	34	202
02	6,0	4,9		M8	50	31	69,0	34	203
02	8,0	6,2	M8		50	31	69,0	34	204
02	9,0	7,0	M9		50	31	69,0	34	205
02	7,0	5,5		M10	50	31	69,0	34	206
02	10,0	8,0	M10		50	31	69,0	34	207
02	8,0	6,2		M11	50	31	69,0	34	208
02	9,0	7,0		M12	50	31	69,0	34	209
02	11,0	9,0		M14	50	31	69,0	34	210
02	12,0	9,0		M16	50	31	69,0	34	211
02	14,0	11,0		M18	50	31	69,0	34	212
02	16,0	12,0		M20	50	31	69,0	34	213

Quick change tap adapter with overload clutch, with through coolant

- ▲ Adapter with adjustable overload clutch
- ▲ for use with taps

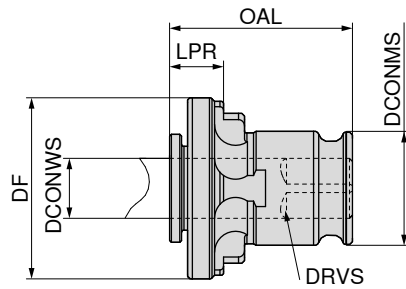


83 616 ...

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR	
	mm	mm			mm	mm	mm	mm	
01	3,5	2,7	M3	M4,5 - M5	33	19	46,5	25	100
01	4,5	3,4	M4	M6	33	19	46,5	25	102
01	5,5	4,3		M7	33	19	46,5	25	104
01	6,0	4,9	M4,5 - M6	M8	33	19	46,5	25	106
01	7,0	5,5	M7	M10	33	19	46,5	25	108
01	8,0	6,2	M8	M11	33	19	46,5	25	110
01	9,0	7,0	M9	M12	33	19	46,5	25	112
01	10,0	8,0	M10		33	19	46,5	25	114
01	11,0	9,0		M14	33	19	46,5	25	116
02	6,0	4,9	M4,5 - M6	M8	50	31	69,0	34	200
02	7,0	5,5	M7	M10	50	31	69,0	34	202
02	8,0	6,2	M8	M11	50	31	69,0	34	204
02	9,0	7,0	M9	M12	50	31	69,0	34	206
02	10,0	8,0	M10		50	31	69,0	34	208
02	11,0	9,0		M14	50	31	69,0	34	210
02	12,0	9,0	M12	M16	50	31	69,0	34	212
02	14,0	11,0		M18	50	31	69,0	34	214
02	16,0	12,0		M20	50	31	69,0	34	216

Quick change tap adapter

- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads

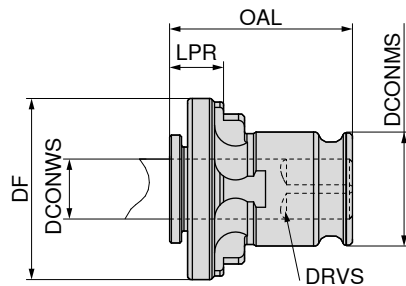


83 610 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	
01	3,5	2,7	M3		30	19	28,5	7	100
01	4,5	3,4	M4		30	19	28,5	7	101
01	4,0	3,0	M3,5		30	19	28,5	7	102
01	2,8	2,1	M2 - M2,6		30	19	28,5	7	103
01	5,5	4,3		M7	30	19	28,5	7	104
01	6,0	4,9	M4,5 - M6	M8	30	19	28,5	7	105
01	7,0	5,5	M7	M10	30	19	28,5	7	106
01	8,0	6,2	M8	M11	30	19	28,5	7	107
01	9,0	7,0	M9	M12	30	19	28,5	7	108
01	10,0	8,0	M10		30	19	28,5	7	109
01	11,0	9,0		M14	30	19	28,5	7	110
02	6,0	4,9	M4,5 - M6		46	31	46,0	11	200
02	7,0	5,5	M7		46	31	46,0	11	201
02	8,0	6,2	M8		46	31	46,0	11	202
02	9,0	7,0	M9		46	31	46,0	11	203
02	10,0	8,0	M10		46	31	46,0	11	204
02	11,0	9,0		M14	46	31	46,0	11	205
02	12,0	9,0		M16	46	31	46,0	11	206
02	14,0	11,0		M18	46	31	46,0	11	207
02	16,0	12,0		M20	46	31	46,0	11	208
02	18,0	14,5		M22 - M24	46	31	46,0	11	209

Quick change tap adapter, with through coolant

- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads

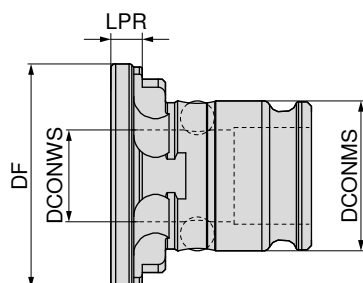


83 614 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	
01	3,5	2,7		M4,5 - M5	30	19	28,5	7	100
01	4,5	3,4	M4	M6	30	19	28,5	7	102
01	5,5	4,3		M7	30	19	28,5	7	104
01	6,0	4,9	M4,5 - M6	M8	30	19	28,5	7	106
01	7,0	5,5		M7	30	19	28,5	7	108
01	8,0	6,2	M8	M11	30	19	28,5	7	110
01	9,0	7,0	M9	M12	30	19	28,5	7	112
01	10,0	8,0	M10		30	19	28,5	7	114
02	6,0	4,9	M4,5 - M6	M8	46	31	46,0	11	200
02	7,0	5,5	M7	M10	46	31	46,0	11	202
02	8,0	6,2	M8	M11	46	31	46,0	11	204
02	9,0	7,0	M9	M12	46	31	46,0	11	206
02	10,0	8,0	M10		46	31	46,0	11	208
02	11,0	9,0		M14	46	31	46,0	11	210
02	12,0	9,0	M12	M16	46	31	46,0	11	212
02	14,0	11,0		M18	46	31	46,0	11	214
02	16,0	12,0		M20	46	31	46,0	11	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.

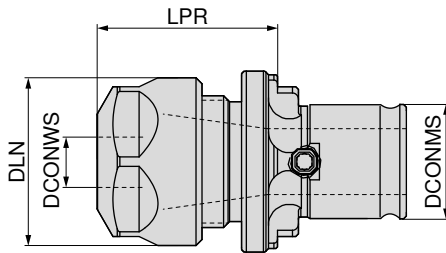


83 624 ...

SZID	DF mm	DCONMS mm	DCONWS mm	LPR mm	
02	46	31	19	8,5	200

Quick change tap adapters

▲ Adapters for collets ER 16 / ER 25



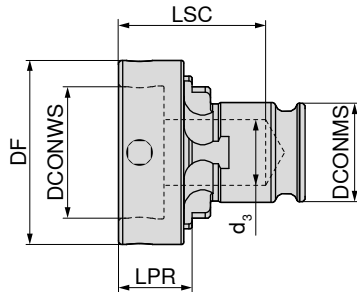
83 618 ...

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

010
016

Quick change adapter for dies

▲ For mounting dies according to DIN 223



83 622 ...

SZID	for size	cutting range	DF mm	DCONMS mm	DCONWS mm	LPR mm	d ₃ mm	LSC mm
01	16 x 5	M1 - M4	25	19	16	9	12,5	23
01	20 x 5	M3 - M4	30	19	20	9	12,5	23
01	20 x 7	M4,5 - M6	30	19	20	11	12,5	25
01	25 x 9	M7 - M9	35	19	25	14	12,5	28
01	30 x 11	M10 - M11	40	19	30	16	12,5	30
01	38 x 10	M12x1 - M15x1,5	48	19	38	15	14,2	29
01	38 x 14	M12 - M14	48	19	38	19	14,2	33
02	20 x 5	M3 - M4	30	31	20	22	15,0	57
02	20 x 7	M4,5 - M6	30	31	20	22	15,0	57
02	25 x 9	M7 - M9	35	31	35	22	15,0	57
02	30 x 11	M10 - M11	40	31	30	22	22,0	57
02	38 x 10	M12x1 - M15x1,5	48	31	38	22	22,0	57
02	38 x 14	M12 - M14	48	31	38	25	22,0	60
02	45 x 14	M16x1 - M20x2	57	31	45	29	22,0	64
02	45 x 14	M16 - M20	57	31	45	29	22,0	64

116
120
121
125
130
138
139
220
221
225
230
238
239
245
246

MultiChange – Spanner



84 357 ...

DRVS mm	TQX Nm	
6	5	006
8	12,5	008
10	15	010
13	20	013
16	25	016
19	25	019 ¹⁾
21	25	021 ¹⁾
24	25	024 ¹⁾

1) only for MultiChange reamers

MultiChange – Spanner Head



84 358 ...

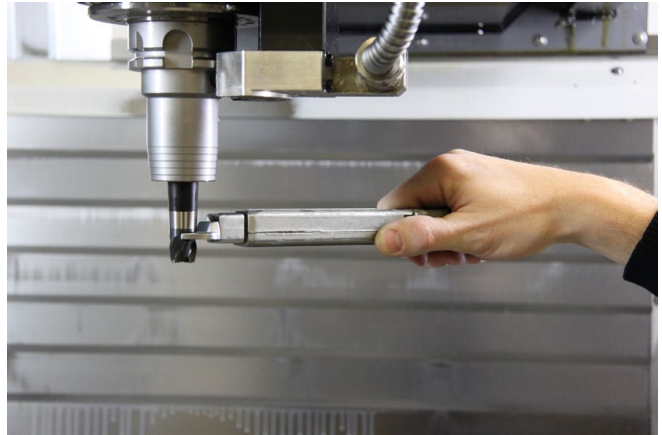
DRVS mm	TQX Nm	Square mm	
6	5	9 x 12	006
8	12,5	9 x 12	008
10	15	9 x 12	010
13	20	9 x 12	013
16	25	9 x 12	016
19	25	9 x 12	190
19	25	14 x 18	019 ¹⁾
21	25	9 x 12	210
21	25	14 x 18	021 ¹⁾
24	25	9 x 12	240
24	25	14 x 18	024 ¹⁾

1) only for MultiChange reamers

Suitable torque keys can be found on → **Page 275.**

Assembly instructions for MultiChange head

- ▲ Cleaning of cone, thread and face of the milling head
- ▲ 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



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.

TORX® Screwdriver



80 950 ...

Size	LB mm	TQX Nm	
T05	35	0,5	082
T06	35	0,9	083
T07	35	1,7	084
T08	40	2,6	085
T09	40	3,4	086
T10	40	4,5	087
T15	45	7,7	088
T20	45	12,7	089

TORX® Screwdriver sets



80 950 ...

Size	
T06, T07, T08, T09, T10, T15, T20	090

TORX PLUS® Screwdriver



80 950 ...

Size	LB mm	TQX Nm	
T05-IP	35	0,5	057
T06-IP	35	0,9	058
T07-IP	35	1,7	059
T08-IP	40	2,6	060
T09-IP	40	3,4	061
T10-IP	40	4,5	062
T15-IP	45	7,7	063
T20-IP	45	12,7	064

TORX PLUS® Screwdriver sets



80 950 ...

Size	
T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP	091

Clamping key



80 397 ...

DRVS mm	TQX Nm	
2	1,9	020
2,5	3,8	025
3	6,6	030
4	16	040
5	30	050
6	52	060
8	120	080
10	220	100

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



NEW

80 397 ...

Size	
SW2, SW2,5, SW3, SW4, SW5, SW6, SW8	99900

TORX® Screwdriver



Size	LB mm	80 950 ...
T06	60	100
T07	60	101
T08	60	102
T09	60	103
T10	80	104
T15	80	105
T20	100	106
T25	100	107
T30	115	092

TORX PLUS® Screwdriver



Size	LB mm	80 950 ...
T06-IP	60	116
T07-IP	60	117
T08-IP	60	039
T09-IP	60	118
T10-IP	80	119
T15-IP	80	120
T20-IP	100	121
T25-IP	100	122

TORX® MagicSpring®



Size	LB mm	80 950 ...
MS T06	60	108
MS T07	60	109
MS T08	60	110
MS T09	60	111
MS T10	80	112
MS T15	80	113
MS T20	100	114
MS T25	100	115
MS T30	100	131

TORX PLUS® MagicSpring®



Size	LB mm	80 950 ...
MS T06-IP	60	123
MS T07-IP	60	124
MS T08-IP	60	125
MS T09-IP	60	126
MS T10-IP	80	127
MS T15-IP	80	128
MS T20-IP	100	129
MS T25-IP	100	130



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: $\pm 6\%$, based on national standards
- ▲ Bits to be clamped in the universal holder only



NEW

80 021 ...

TQX Nm	
0,4	00400
0,5	00500
0,6	006
0,7	007
0,8	008
0,9	00900
1	010
1,1	01100
1,2	012
1,5	01500
1,6	016
1,8	018
2	020
2,5	02500
3	030
3,2	032
3,8	03800
4	040
5	050
5,5	055
6	060
7,2	07200

TorqueVario®-S

- ▲ Patented handle

Scope of supply:

incl. Torque-Setter setting tool



80 950 ...

TQX Nm	
0,4 - 1,0	046
0,5 - 2,0	191
0,8 - 5,0	192
2,0 - 7,0	193

Universal holder for Bits

- ▲ 162 mm long



80 950 ...

for	
DIN3126-C/E 6,3-1/4"	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: $\pm 6\%$, traceable to national standards

Scope of supply:

incl. Plastic box and inspection report



NEW

80 392 ...

TQX Nm	DRVS mm	
0,5	4	00500
0,6	4	00600
0,9	4	00900
1,1	4	01100
1,2	4	01200
1,4	4	01400
2,0	4	02000
2,5	4	02500
3,0	4	03000
3,8	4	03800
4,0	4	04000

Interchangeable blade for Hex drive for Micro Precision Chucks



Size	TQX Nm
SW1,5	0,9
SW2	1,8
SW2,5	3,8
SW3	5,5
SW4	8,0

NEW	
short 75 mm	long 175 mm
80 393 ...	80 950 ...
01500	151
02000	152
02500	153
03000	154
04000	155

Replaceable Blade for TORX®



		NEW	
		short 75 mm	long 175 mm
		80 394 ...	80 950 ...
Size	TQX Nm		
T05	0,4		048
T06	0,6	00600	031
T07	0,9	00700	032
T08	1,3	00800	033
T09	2,5	00900	034
T10	3,8	01000	035
T15	5,5	01500	036
T20	8,0	02000	037
T25	8,0	02500	038

Replaceable Blade for TORX PLUS®



		NEW	
		short 75 mm	long 175 mm
		80 395 ...	80 950 ...
Size	TQX Nm		
T05-IP	0,5		049
T06-IP	0,8	00600	050
T07-IP	1,3	00700	051
T08-IP	2,0	00800	043
T09-IP	3,0	00900	052
T10-IP	4,5	01000	053
T15-IP	6,6	01500	054
T20-IP	8,0	02000	055
T25-IP	8,0	02500	056



Interchangeable blade, short 75 mm, suitable for TorqueFix® Key article number 80 392 ... → **See Page 285.**

Interchangeable blade, long 175 mm, suitable for TorqueFix® Grip article number 80 021 ... and TorqueVario®-S article number 80 950 ... → **Page 285.**

TORX® Bits short (25 mm)

▲ DIN3126-C 6,3 - 1/4"



80 950 ...

Size	TQX Nm	
T06	0,9	015
T07	1,7	016
T08	2,6	017
T09	3,4	018
T10	4,5	019
T15	7,7	020
T20	12,7	021
T25	19	022
T30	37,4	093

TORX® Bits long (50 mm)

▲ DIN3126-E 6,3 - 1/4"



80 950 ...

Size	TQX Nm	
T06	0,9	023
T07	1,7	024
T08	2,6	025
T09	3,4	026
T10	4,5	027
T15	7,7	028
T20	12,7	029
T25	19	030
T30	37,4	094

TORX PLUS® Bits short (25 mm)

▲ DIN3126-C 6,3 - 1/4"



80 950 ...

Size	TQX Nm	
T05-IP	0,5	065
T06-IP	0,9	066
T07-IP	1,7	067
T08-IP	2,6	068
T09-IP	3,4	069
T10-IP	4,5	070
T15-IP	7,7	071
T20-IP	12,7	072
T25-IP	19	073

TORX PLUS® Bits long (50 mm)

▲ DIN3126-E 6,3 - 1/4"



80 950 ...

Size	TQX Nm	
T05-IP	0,5	074
T06-IP	0,9	075
T07-IP	1,7	076
T08-IP	2,6	040
T09-IP	3,4	077
T10-IP	4,5	078
T15-IP	7,7	079
T20-IP	12,7	080
T25-IP	19	081

Bit – hexagonal



80 398 ...

Size	OAL mm	
SW1,5-50mm	44	01500
SW2,5-50mm	47	02500
SW2-50mm	51	02000
SW3,5-50mm	54	03500
SW3-50mm	58	03000
SW4,5-50mm	62	04500
SW4-50mm	67	04000
SW5-50mm	73	05000
SW6-50mm	79	06000
SW8-50mm	88	08000

TORX® Allen key



80 951 ...

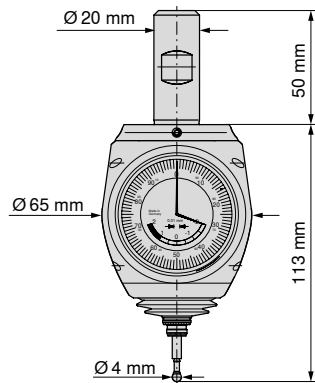
Size	OAL mm	
T07-IP	44	00700
T08-IP	47	00800
T09-IP	51	00900
T10-IP	54	01000
T15-IP	58	01500
T20-IP	62	02000
T25-IP	67	02500
T27-IP	73	02700
T30-IP	79	03000
T40-IP	88	04000

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 ...

Universal-3D-Tester

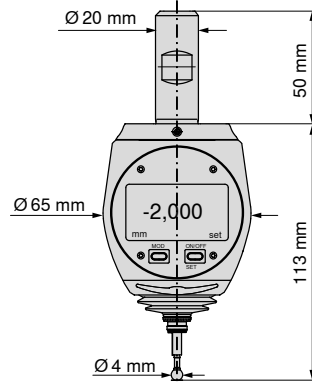
100

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 ...

Digital 3D Tester

100

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



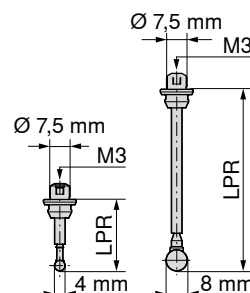
85 900 ...

OAH
mm
100

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

25
65

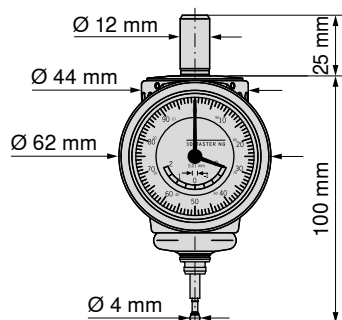
102
104

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 ...

Universal 3D-Tester HQ

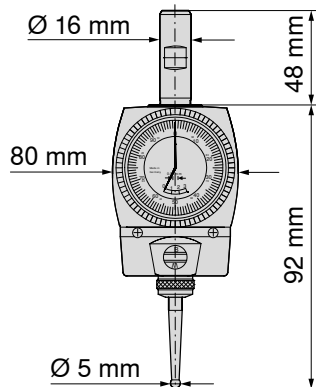
100

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 ...

Centre finder

100



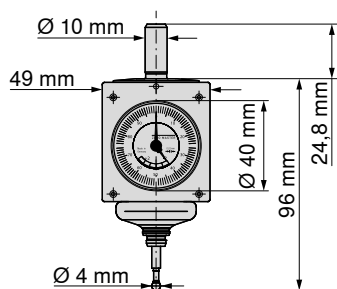
Range with probe tip Ø 5 mm holes
Ø 6-125 mm, shaft Ø 0-125 mm

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

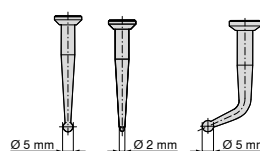


85 295 ...

Universal 3D-Tester Mini

100

Stylii for Centre Finder



85 299 ...

Straight stylus / Ball-Ø 2 mm

102

Straight stylus / Ball-Ø 5 mm

104

Curved stylus / Ball Ø 5 mm

106

Telescopic rod for Centre Finder



85 299 ...

DCONMS
mm

6

OAL
mm

478

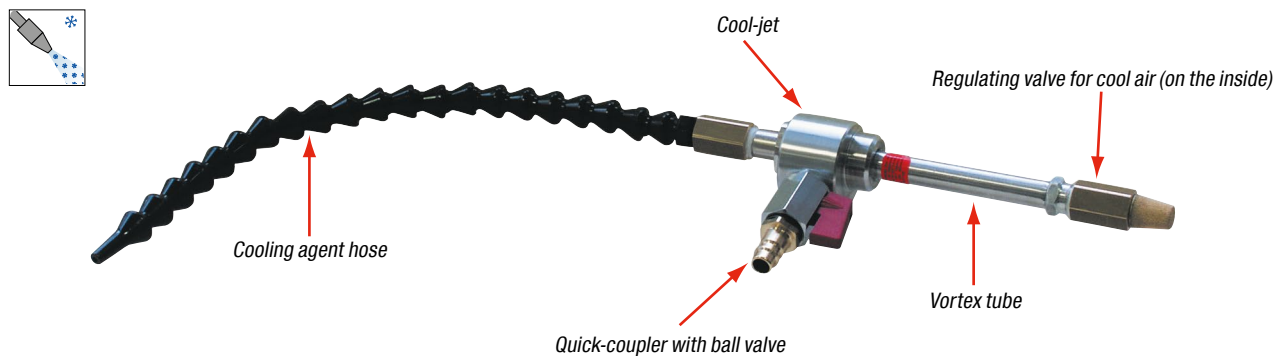
111

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**.



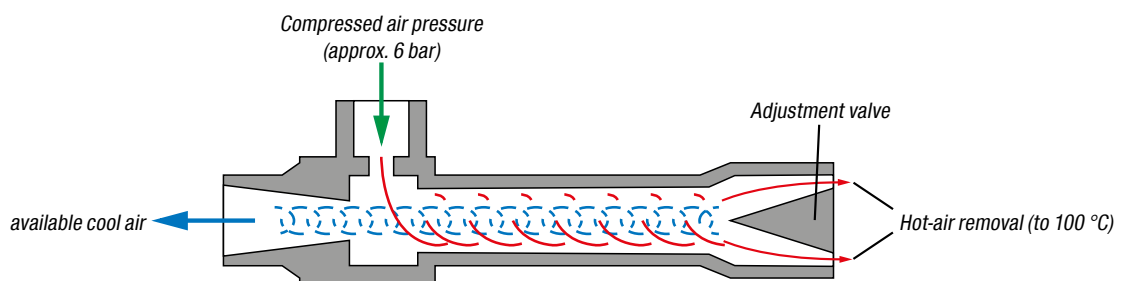
	81 900 ...		81 900 ...
Cool-jet		Accessories	
3-7 bar air pressure, at -46 °C	100	Magnetic plate Ø 80 mm without clamping arm	101
		Spare tube, length 300 mm	104
		Jet silencer (air filter)	105
		Clamping arm, length 75 mm	106
		Complete set (with magnetic set and clamping arm), weight 0,4 kg	107

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)

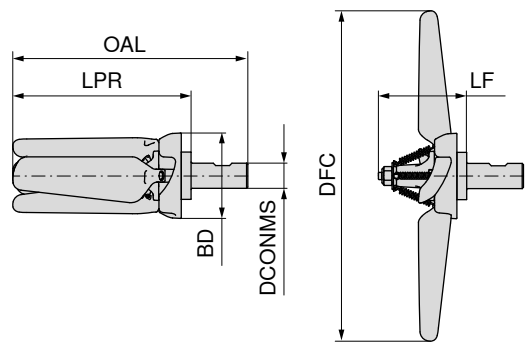
1  Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

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

- ▲ Chip and emulsion removal or drying processes via the tool spindle
- ▲ Simple replacement of the rotor blades



NEW



IK central

80 399 ...

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



Rotor blade

80 399 ...

30100



Rotor blade kit

80 399 ...

30200

Spare parts
for Article no.
80 399 02000

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 | milling |
| ▲ Baruffaldi | ▲ DIN5480 | ▲ Bevel gear milling | ▲ BMT (bolt on) |
| ▲ Diplomatic | ▲ DIN5482 | ▲ Spline / tooth | |

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 → cuttingtools/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

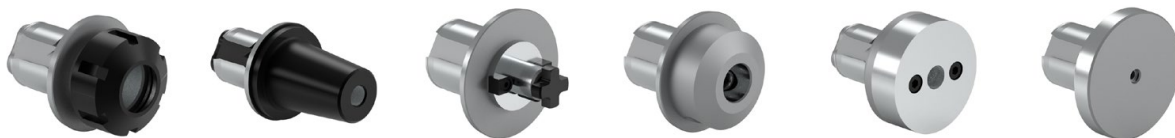
The face & taper contact interface ensures maximum concentricity. The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

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



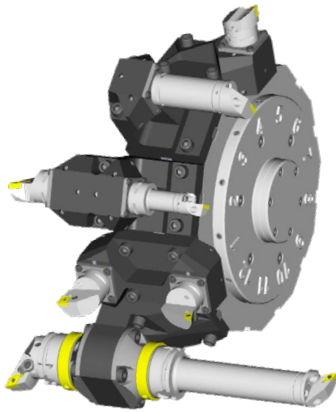
System Preci-Flex® – The stable solution for long tool life and high surface quality

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.



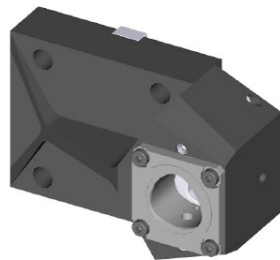
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and HSK holders.

Quick-Change

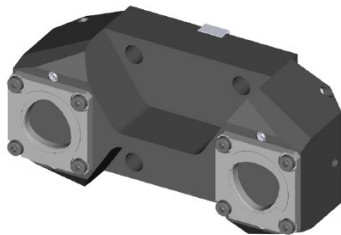


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

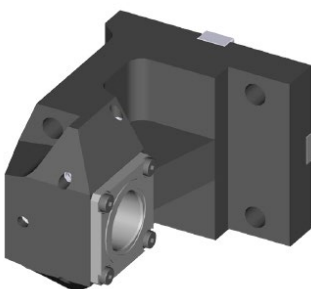
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



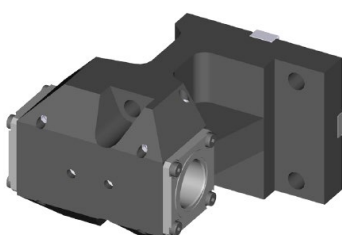
Tool holder single
and straight



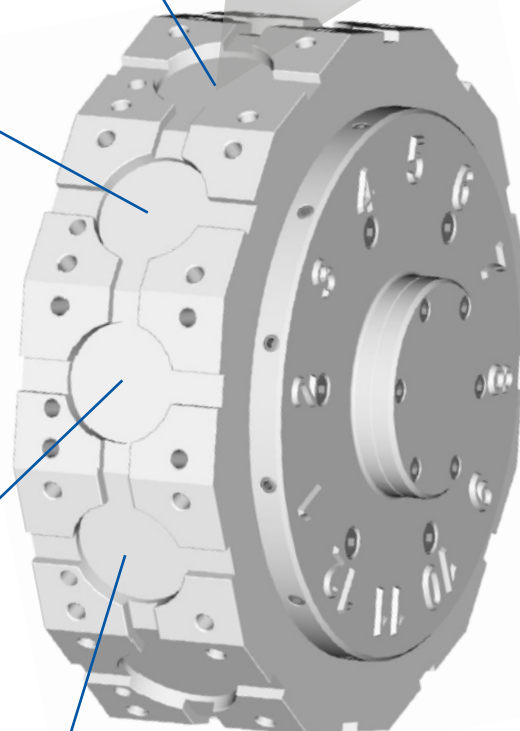
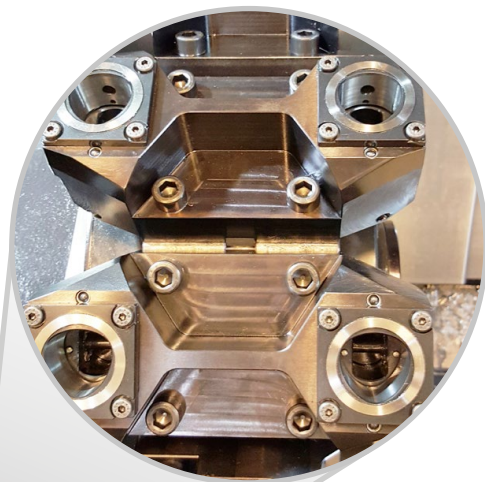
Tool holder double
and straight



Single angle tool holder



Double angle tool holder



Revolverdisk BMT/VDI/...

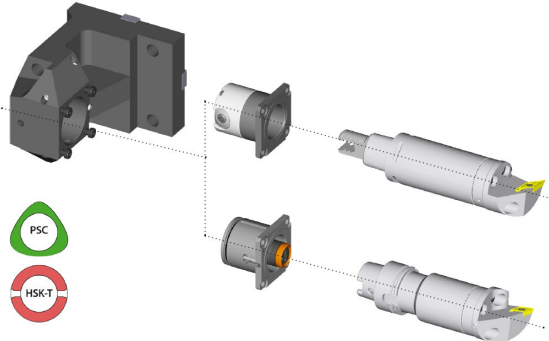
HSK/PSC clamping units



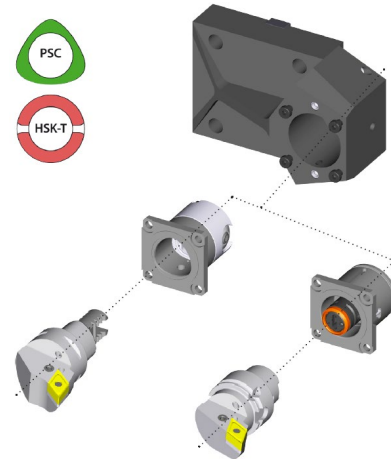
The tool holders are fitted with either an HSK or PSC clamping unit.



Clamping units are available in sizes HSK 40/63/100 and PSC 40/50/63.

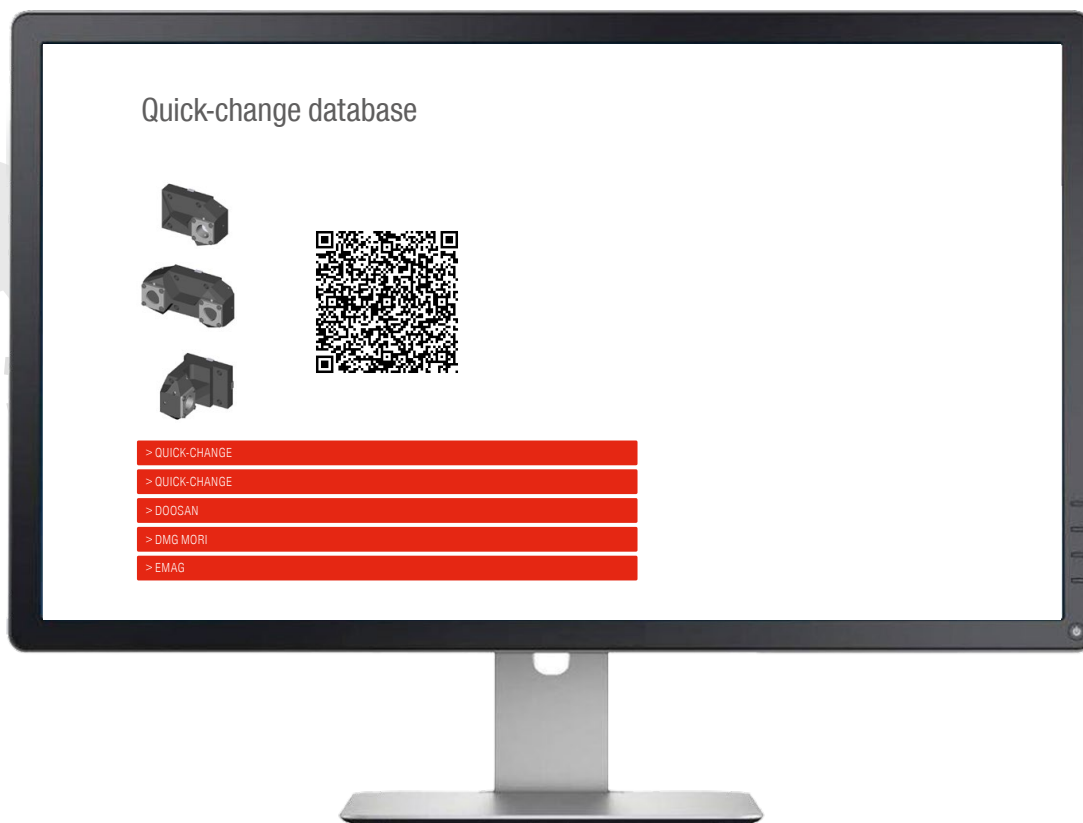


The toolholders permit the flexibility to be adapted to the customer's requirements.



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

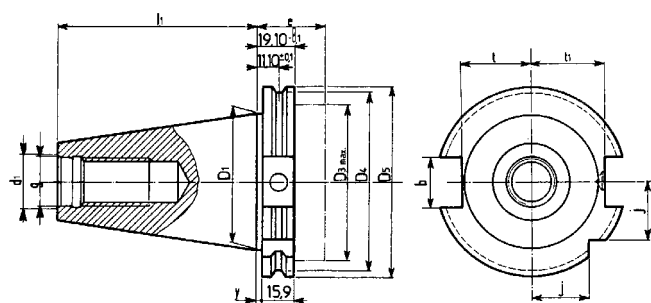
To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process.

Please fill in this form carefully and send it to us by email or fax. → cuttingtools.ceratzit.com/en/download-quickchange

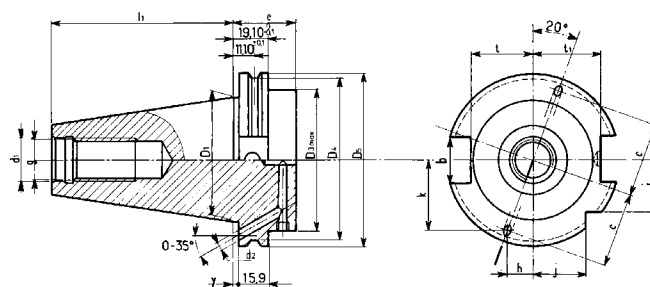
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

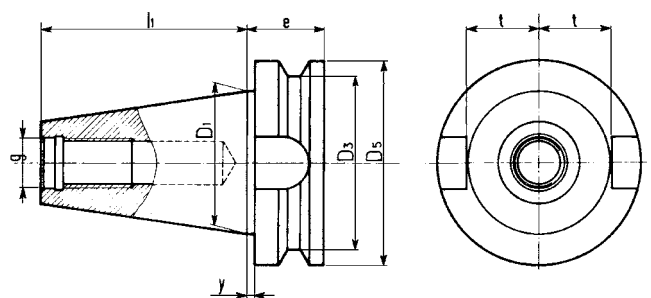


ISO 7388-1 – 871 Form B



	D ₁ mm	D _{3 max} mm	D ₄ mm	D ₅ mm	$l_{1,0}^{+0.2}$ 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:

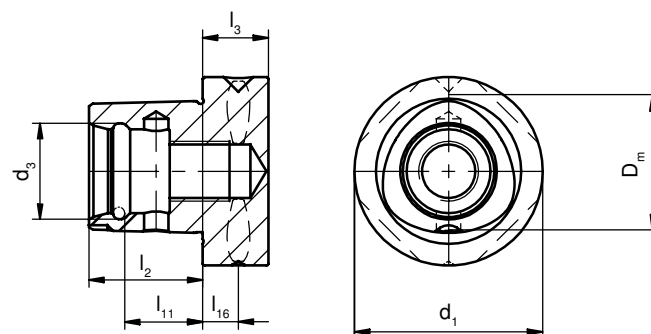
SK / BT 30 to 20,000 1/min.

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

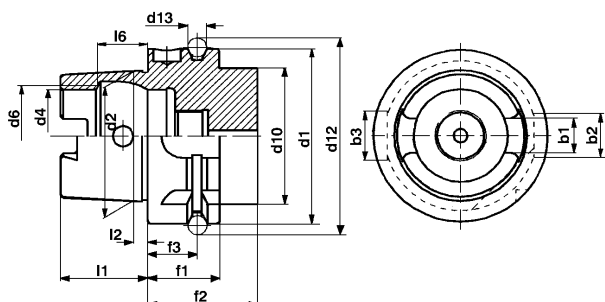
Technical Data for Polygon shank adapters



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

HSK DIN 69893 A+C



Maximum rpm recommended for HSK adapters:

HSK-A 32 to 50.000 $\frac{1}{\text{min}}$.

HSK-A 40 to 42.000 $\frac{1}{\text{min}}$.

HSK-A 50 to 30.000 $\frac{1}{\text{min}}$.

HSK-A 63 to 25.000 $\frac{1}{\text{min}}$.

HSK-A 100 to 16.000 $\frac{1}{\text{min}}$.

	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

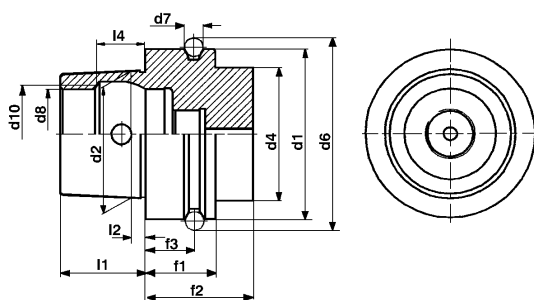
DIN 69893 Form A

- ▲ 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

DIN 69893 Form 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

HSK DIN 69893 E



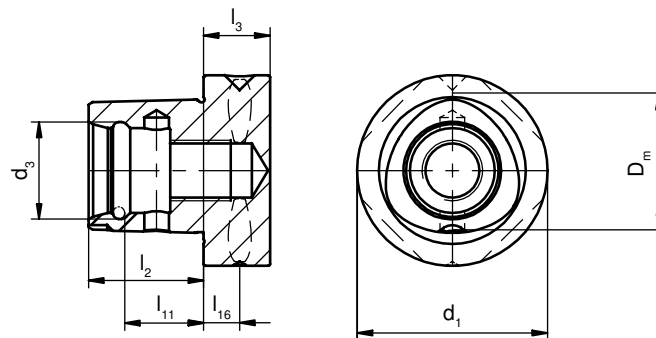
	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₇ mm	d ₈ mm	d ₁₀ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₄ mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

DIN 69893 Form 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

To dimensions of 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

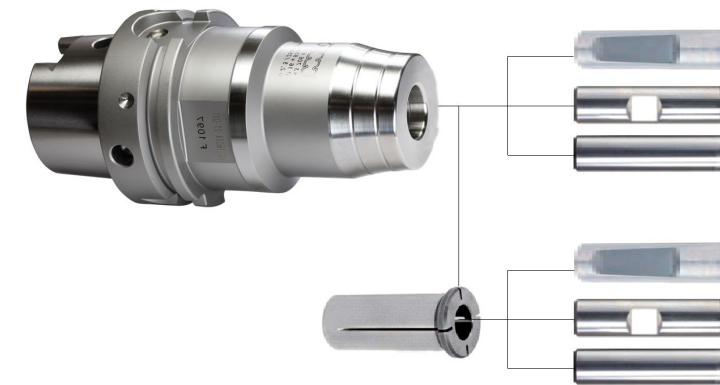
High pressure clamping with optimum damping properties was the aim in the development of the high-pressure chuck. Here, all applications over a continuous operation test were covered over thousands of machining operations. In addition, extensive continuous pressure and positive pressure tests, and vibration 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

Transmittable torques and static clamping torques

Static clamping moments of the CentroP collet chuck with different torque values measured at the tightening nut

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
OZ 462 E torque moment 200 Nm				10	35	55	75	95	120	140	160	185	205	230	250	270	295	315	340							Nm

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

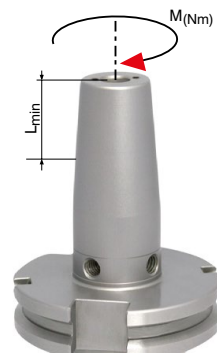
Permissible transmitted torque (Md) for high pressure chuck

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



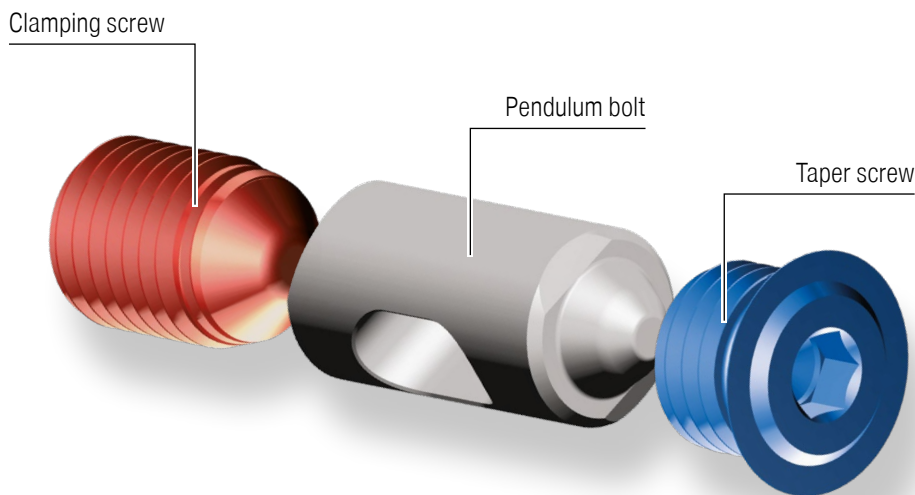
Minimum permissible shank torques and clamping depths for shrink fit holders

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

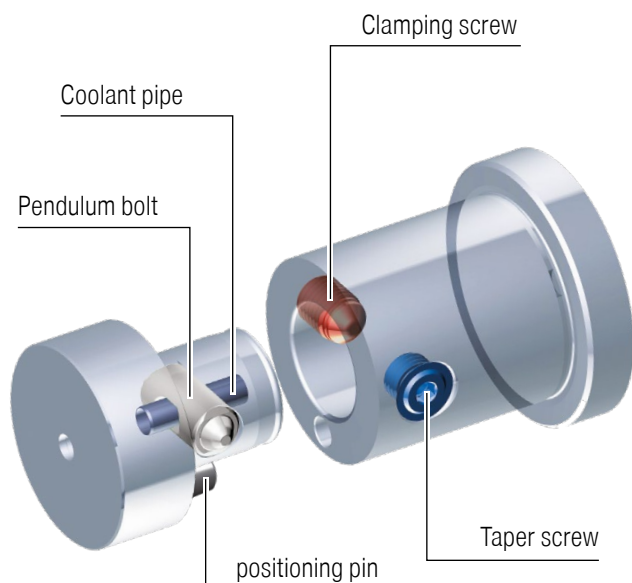
Even better connected

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. Adapters also have a considerable impact on the quality of the machining result. They also contribute to the cost-effectiveness of the machining process.

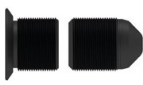


Advantages

- ▲ 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

								
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 99000	84 950 23500	84 950 24300	84 950 98200	