

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



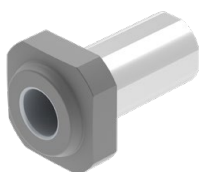
With our new PCC (Precision Collet Chuck), we offer an ER precision collet chuck that is almost equal to our Centro-P in terms of precision and quality. Compatibility with our existing range of collets and use of the same roll key complements the new PCC standard line.

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

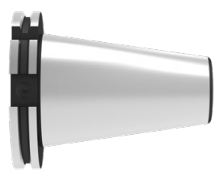


Collet description

- ▲ Type version
- ▲ Radial run-out accuracy

Toolfinder – Machine interface

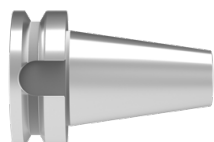
ISO 7388-1 – SK steep taper holders



- ▲ SK 30
- ▲ SK 40
- ▲ SK 50

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

ISO 7388-2 – MAS-BT taper shank

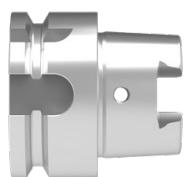


MAS-BT / MAS-BT-FC with face contact

- ▲ 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

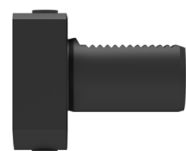
▶ Toolfinder – Adapters, rotating	4+5
Product programme	164–182

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**

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

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**



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**

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, 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, 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

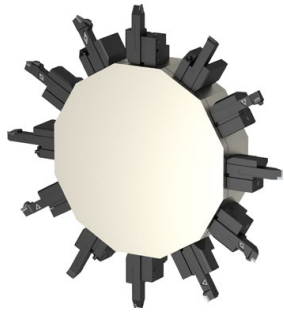
Parting blade holders

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

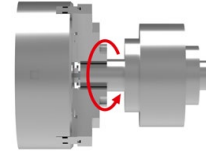
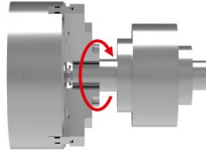
Accessories

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

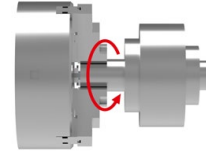
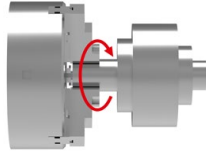
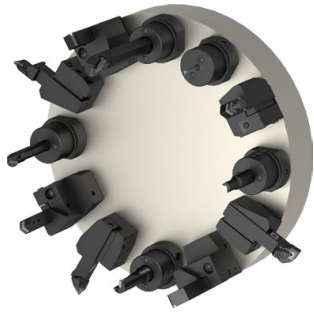
Lower turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters	B2/B3/B6/B7/C3/C4/D1/D2 209-212	B2/B3/B6/B7/C1/C2/D1/D2 209-212
 Part Off Holder	double – overhead 217+218	double 217+218
 Adapter VDI to VDI	Right-hand 224	Right-hand 224
 Boring bar holder	Right-hand 223+224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



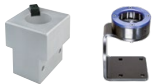
Upper turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	Square Shank Adapters	B1/B5/C1/C2/D1	209-212	B3/B7/C3/C4/D2	209-212
	Cylindrical Shank Adapters	E/E1/E2/E3/E4	212-215	E/E1/E2/E3/E4	212-215
	Taper Adapters	F1	216	F1	216
	Part Off Holder	Right-hand	217+218	Overhead right	217+218
	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

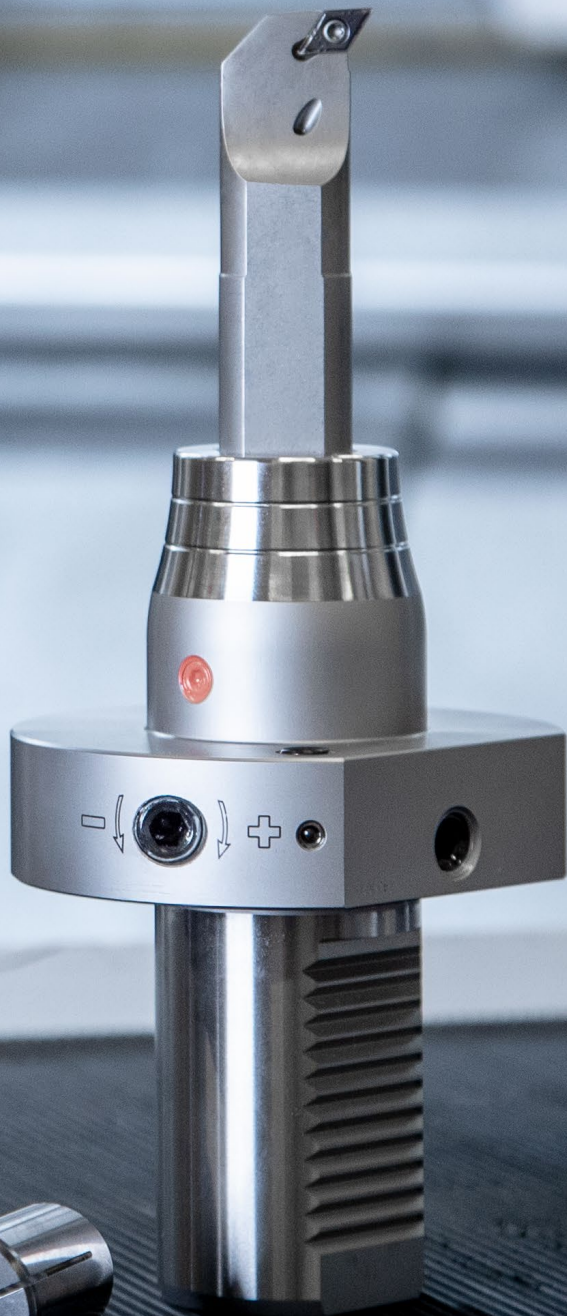
Accessories

	Bar stop	219
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	Bar pullers	227
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Toolfinder – accessories

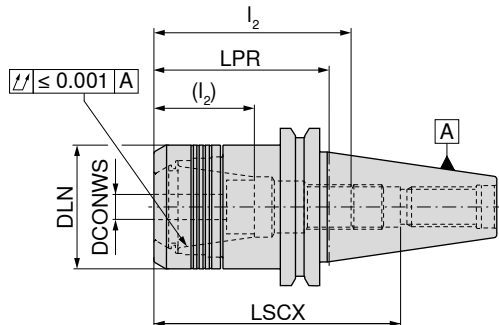
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3D tester and zero setting device		288+289
MultiChange key		282
Cool-jet		290
Taper wiper		273



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

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	I_2 (I_2) mm	for collet	£ Y8		£ Y8	
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	233.58	016		
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	192.97	102		
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	237.65	103		
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)			240.30	510
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)			265.21	910
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)			218.23	816
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	178.32	162		
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	237.65	163		
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)			261.16	516
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)			275.13	916
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	234.60	201		
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	166.43	202		
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	237.65	203		
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)			261.16	620
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)			275.13	920
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	267.24	261 ¹⁾		
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	445.39	167		
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)			396.20	320
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)			447.00	520
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)			392.71	52100
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)			728.10	720
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)			400.86	26600
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)			332.29	26700
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)			408.61	26800
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)			469.05	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

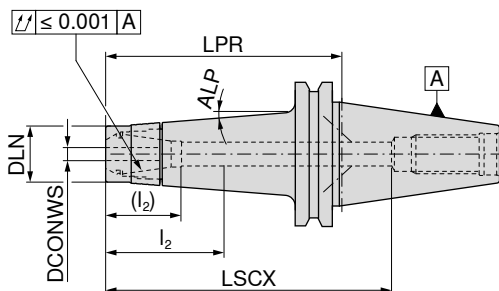
												
	84 950 ...			84 950 ...			83 950 ...			83 950 ...		
Spare parts for collet	£ Y8			£ Y8			£ Y8			£ Y8		
426E (ER16)	76.42	011		56.75	001		M11x1 - SW6	47.40	341	M11x1 - SW6	31.75	337
430E (ER25)	85.18	013		63.06	003		M18x1,5 - SW6	33.34	432	M18x1,5 - SW6	23.78	431
470E (ER32)	91.08	015		69.36	005		M22x1,5 - SW6	28.16	402	M22x1,5 - SW6	20.51	401
472E (ER40)	124.56	017		100.91	007					M28x1,5 - SW6	28.75	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°	260.05	410
SK 40	1 - 10	130	24	105	28 - 48 (20 - 35)	426E (ER16)		228.96	61000
SK 40	1 - 10	160	24	200	28 - 48 (20 - 35)	426E (ER16)	2.5°	312.01	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

		Tapered lock nut IK		Tapered lock nut		Stop screw 2		Stop screw 1		
	84 950 ...		84 950 ...		83 950 ...		83 950 ...			
Spare parts for collet	£		£		£		£			
	Y8		Y8		Y8		Y8			
426E (ER16)	93.82	033	79.26	031	M11x1 - SW6	47.40	341	M11x1 - SW6	31.75	337

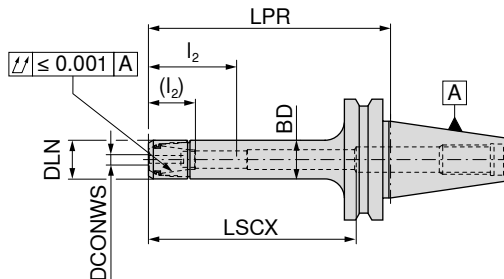
Accessories

					
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	£ Y8	
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	243.45	207
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	251.25	407
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)	324.51	607
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	338.87	907
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)	243.45	210
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)	243.45	310
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)	324.51	410
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)	324.51	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	Mini lock nut IK		Mini lock nut		Stop screw 2		Stop screw 1	
	£ Y8		£ Y8		£ Y8		£ Y8	
4008E (ER11)			79.26	041	45.18	340	30.09	336
426E (ER16)	77.19	035	63.32	034	47.40	341	31.75	337

Accessories

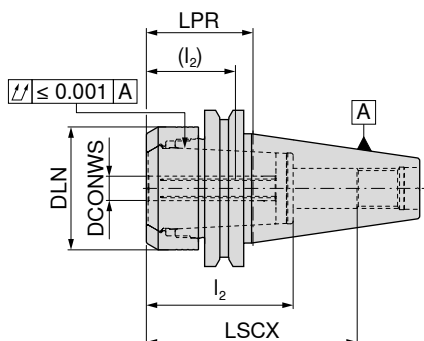
→ 256-263, 266	→ 269	→ 274	→ 275	→ 275	→ 57-58	→ 273

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 ...

£

Y8

194.85 025

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 ...
£	£	£	£
Y8	Y8	Y8	Y8
75.33 020	71.45 009	28.16 402	20.51 401

Accessories

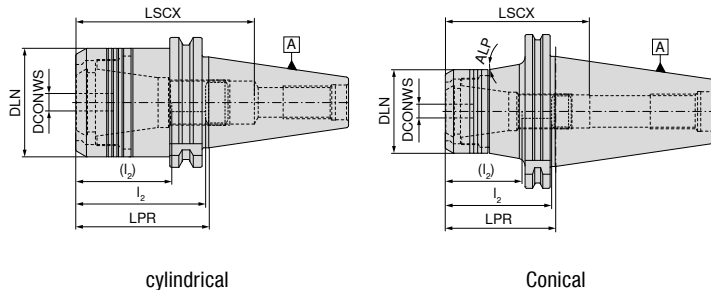
OZ Collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 267	→ 267	→ 275	→ 275	→ 57-58	→ 273

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 ...

£

Y8

325.19 12079

NEW



AD

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

conical

84 400 ...

£

Y8

522.69 12078

610.47 22078

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	I_2 (I_2) mm	ALP °	for collet
SK 40	2 - 20	65	53	85	41 - 65 (27 - 47)		470E (ER32)
SK 50	2 - 20	70	53	91	41 - 71 (27 - 53)	10	470E (ER32)
SK 50	2 - 20	100	53	121	41 - 74 (27 - 56)	10	470E (ER32)



LSCX = Clamping depth without backstop screw

I_2 = Clamping depth backstop screw 1, dimension in brackets (I_2) = Clamping depth backstop screw 2

Spare parts

DCONWS

2 - 20

 Lock nut	 Stop screw 2	 Stop screw 1
84 950 ...	83 950 ...	83 950 ...
£	£	£
Y8	Y8	Y8
105.74 30100	28.16 402	20.51 401

Accessories

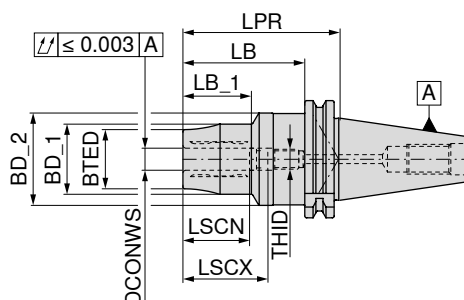
 ER collet	 Roll key	 Roll key device	 Pull studs	 Others
→ 256-266	→ 275	→ 275	→ 57-58	→ 273

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

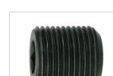
83 422 ...

	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	£	
	SK 40	20	95	42	48	50	45	51	41	76	M16x1	Y8	
	SK 40	25	110	51	57	50	60	57	47	91	M16x1	943.79	116
	SK 40	32	120	57	63	50	65	61	51	101	M16x1	838.64	120
												943.79	125
												943.79	132

→ Min. clamping depth, Page 300



Clamping key - T



Pressure screw



Stop screw IK

Spare parts

DCONWS		Y7		Y7		Y7			
16	SW5	6.39	050	TR10x1,5x14	33.77	430	M12x1x18	17.55	446
20	SW5	6.39	050	TR10x1,5x14	33.77	430	M16x1x18,5	19.23	448
25	SW5	6.39	050	TR10x1,5x14	33.77	430	M16x1x22	30.40	449
32	SW5	6.39	050	TR10x1,5x14	33.77	430	M16x1x25	37.83	450

Accessories

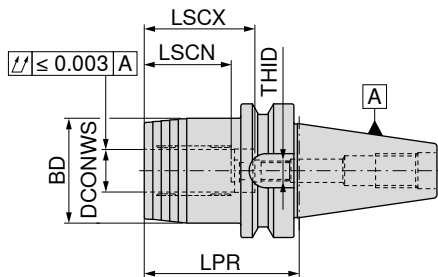
Reduction sleeve	Pull studs	Others
→ 271	→ 57-58	→ 273

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 ...

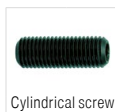
£

Y8

355.46 120

→ 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



83 950 ...

£

Y7

3.03 157



80 397 ...

£

Y7

6.39 050

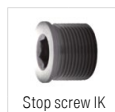


83 950 ...

£

Y7

9.08 429



83 950 ...

£

Y7

22.87 424

Spare parts for Article no.

83 427 120	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x14	9.08	429	M16x1x13,5 - SW8	22.87	424
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Accessories

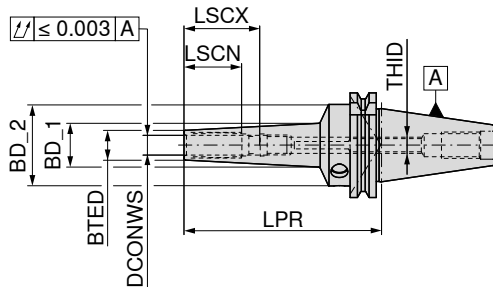
Reduction sleeve	Pull studs	Others
→ 271	→ 57–58	→ 273

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

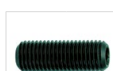


AD/B
G 2,5 n_{max} 25000

83 421 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	£ Y8	
long	SK 40	3	120	9	17.40	49.5	28	12	M3	678.32	103
	SK 40	4	120	10	18.40	49.5	28	16	M3	678.32	104
	SK 40	5	120	11	19.40	49.5	28	20	M3	678.32	105
	SK 40	6	120	12	20.40	49.5	37	27	M5	578.60	106
	SK 40	8	120	14	22.40	49.5	37	27	M6	578.60	108
	SK 40	10	120	16	24.50	49.5	41	31	M8x1	578.60	110
	SK 40	12	120	18	26.60	49.5	46	36	M10x1	578.60	112
	SK 40	16	120	24	32.30	49.5	49	39	M12x1	837.46	116
	SK 40	20	120	28	36.40	49.5	51	41	M16x1	837.46	120
	SK 40	6	160	16	34.37	49.5	37	27	M5	833.01	206
	SK 40	8	160	18	35.45	49.5	37	27	M6	833.01	208
	SK 40	10	160	20	37.10	49.5	41	31	M8x1	833.01	210
	SK 40	12	160	22	38.72	49.5	46	36	M10x1	833.01	212
	SK 40	6	200	16	38.72	49.5	37	27	M5	986.00	306
	SK 40	8	200	18	39.74	49.5	37	27	M6	986.00	308
	SK 40	10	200	20	41.40	49.5	41	31	M8x1	986.00	310
SK 40	12	200	22	43.02	49.5	46	36	M10x1	986.00	312	

→ Min. clamping depth, Page 300



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

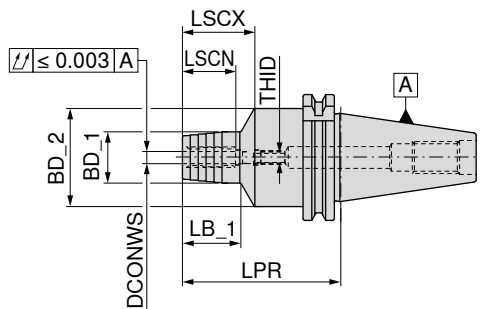
			83 950 ...			80 397 ...			83 950 ...			83 950 ...		
Spare parts for Article no.		£ Y7		£ Y7		£ Y7		£ Y7		£ Y7				
83 421 103	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172		
83 421 104	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172		
83 421 105	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172		
83 421 106	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418		
83 421 108	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419		
83 421 110	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420		
83 421 112	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M10x1x13,5 - SW5	19.83	421		
83 421 116	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M12x1x13,5 - SW5	19.83	422		
83 421 120	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M16x1x13,5 - SW8	22.87	424		
83 421 206	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418		
83 421 208	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419		
83 421 210	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420		
83 421 212	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420		
83 421 306	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418		
83 421 308	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419		
83 421 310	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420		
83 421 312	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	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

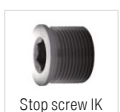
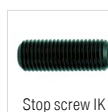
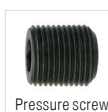


AD/B
G 2,5 n_{max} 25000

83 402 ...

	Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID		£ Y8	
short and slim	SK 40	6	80.5	26	49.5	37	27	29.5	M5		690.96	106
	SK 40	8	80.5	28	49.5	37	27	30.0	M6		690.96	108
	SK 40	10	80.5	30	49.5	41	31	35.0	M8x1		690.96	110
	SK 40	12	80.5	32	49.5	46	36	40.0	M10x1		604.01	112
	SK 40	16	80.5	38	49.5	49	39	45.0	M12x1		690.96	116
	SK 40	20	80.5	42	49.5	51	41	47.0	M16x1		604.01	120
	SK 40	25	80.5	55	63.0	57	47	28.0	M16x1		690.96	125
	SK 40	32	80.5	63	70.0	61	51	25.5	M16x1		690.96	132
	SK 50	6	80.5	26	49.5	37	27	29.5	M5		967.02	306
	SK 50	8	80.5	28	49.5	37	27	30.0	M6		967.02	308
	SK 50	10	80.5	30	49.5	41	31	35.0	M8x1		967.02	310
	SK 50	12	80.5	32	49.5	46	36	40.0	M10x1		878.56	312
	SK 50	16	80.5	38	49.5	49	39	45.0	M12x1		967.02	316
	SK 50	20	80.5	42	49.5	51	41	42.0	M16x1		878.56	320
	SK 50	25	100.0	55	63.0	57	47	48.0	M16x1		967.02	325
	SK 50	32	100.0	63	70.0	61	51	51.0	M16x1		967.02	332

→ Min. clamping depth, Page 300



Spare parts

DCONWS

		£ Y7			£ Y7			£ Y7	
6	M8x1x10	13.73	439				M5x12,5 - SW2,5	19.83	418
8	M8x1x10	13.73	439	M6x14 - SW2	19.83	417	M6x12,5 - SW3	19.83	419
10	M10x1x12	13.73	440				M8x1x13,5 - SW3	19.83	420
12	M10x1x12	13.73	440				M10x1x13,5 - SW5	19.83	421
16	M10x1x12	13.73	440				M12x1x13,5 - SW5	19.83	422
20 - 32	M10x1x12	13.73	440				M16x1x13,5 - SW8	22.87	424

Accessories

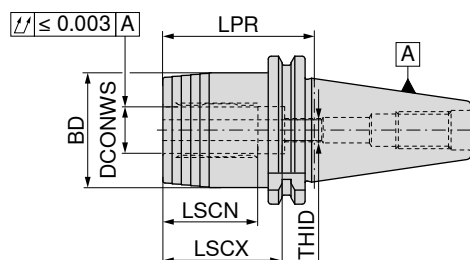


Hydraulic chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



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

83 425 ...

£

Y8

469.78 120

559.79 332

→ Min. clamping depth, Page 300

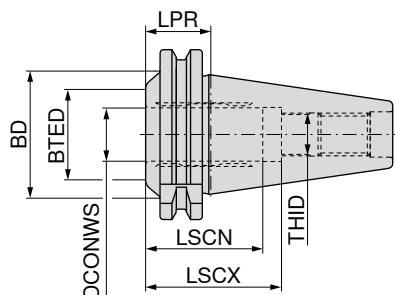
Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	64.5	49.5	51	41	M16x1
SK 50	32	81.0	72.0	61	51	M16x1

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 ...

£

Y8

549.50 120

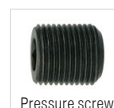
→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	24.5	34	48	51	41	M16x1

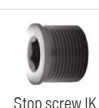
Spare parts

DCONWS

20 - 32



Pressure screw



Stop screw IK

83 950 ...

£

Y7

13.73 440

83 950 ...

£

Y7

22.87 424

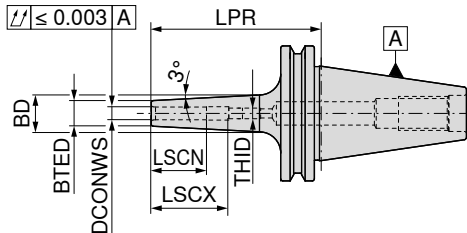
M10x1x12

M16x1x13,5-SW8

Heat shrink adapter, slim 3°

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

TG

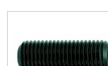


AD/B
G 2,5 n_{max} 25000

84 320 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	£ Y8	
short	SK 40	3	80	9	14	28	12	M6	529.70	103
	SK 40	4	80	10	15	28	16	M6	514.57	104
	SK 40	5	80	11	16	30	20	M6	514.57	105
	SK 40	6	80	12	17	36	26	M5	450.24	106
	SK 40	8	80	14	19	36	26	M6	450.24	108
	SK 40	10	80	16	21	41	31	M8x1	450.24	110
	SK 40	12	80	18	23	47	37	M10x1	450.24	112
	SK 40	14	80	20	26	47	37	M10x1	450.24	114
	SK 40	16	80	22	28	50	40	M12x1	450.24	116
	SK 40	18	80	24	30	50	40	M12x1	450.24	118
	SK 40	20	80	26	32	52	42	M16x1	450.24	120
long	SK 40	3	120	9	16	12	12		594.03	203
	SK 40	4	120	10	17	16	16		578.89	204
	SK 40	5	120	11	18	20	20		578.89	205
	SK 40	6	120	12	22	36	26	M5	518.35	206
	SK 40	8	120	14	24	36	26	M6	518.35	208
	SK 40	10	120	16	26	41	31	M8x1	518.35	210
	SK 40	12	120	18	28	47	37	M10x1	518.35	212
	SK 40	14	120	20	30	47	37	M10x1	518.35	214
	SK 40	16	120	22	32	50	40	M12x1	518.35	216
	SK 40	18	120	24	34	50	40	M12x1	518.35	218
	SK 40	20	120	26	36	52	42	M16x1	518.35	220
extra-long	SK 40	3	160	9	19	12	12		673.48	303
	SK 40	4	160	10	20	16	16		658.34	304
	SK 40	5	160	11	21	20	20		658.34	305
	SK 40	6	160	12	24	36	26	M5	597.82	306
	SK 40	8	160	14	26	36	26	M6	597.82	308
	SK 40	10	160	16	28	41	31	M8x1	597.82	310
	SK 40	12	160	18	30	47	37	M10x1	597.82	312
	SK 40	14	160	20	32	47	37	M10x1	597.82	314
	SK 40	16	160	22	34	50	40	M12x1	597.82	316
	SK 40	18	160	24	36	50	40	M12x1	597.82	318
	SK 40	20	160	26	38	52	42	M16x1	597.82	320

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK

83 950 ...

83 950 ...

Spare parts
DCONWS

3-5

6

8

10

12 - 14
16 19

16 - 18
20

20

M6x14 - SW2

£
Y7

417

...

M5x12,5 - SW2,5

M6x12,5 - SW3

M8x1x13,5 - SW3

M10x1x13,5 - SW
M12x1x13,5 - SW

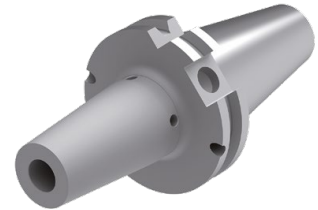
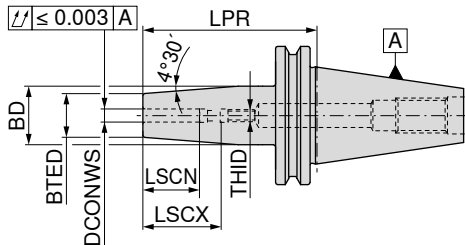
M16x1x13,5 - SW

M16x1x13,5 - SW

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

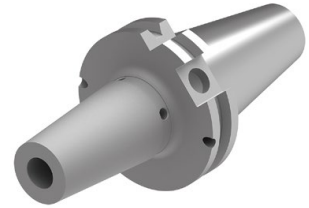
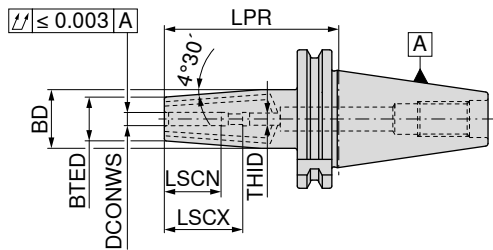
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 300 ...		84 300 ...	
									£ Y8		£ Y8	
short	SK 30	3	80	10	17	22	12	M6	279.97	003		
	SK 30	4	80	15	22	26	16	M6	272.10	004		
	SK 30	5	80	15	22	30	20	M6	272.10	005		
	SK 30	6	80	21	27	36	26	M5	239.34	006		
	SK 30	8	80	21	27	36	26	M6	239.34	008		
	SK 30	10	80	24	32	41	31	M8x1	239.34	010		
	SK 30	12	80	24	32	47	37	M10x1	239.34	012		
	SK 30	14	80	27	34	47	37	M10x1	239.34	014		
	SK 30	16	80	27	34	50	40	M12x1	239.34	016		
	SK 30	18	80	33	42	50	40	M12x1	239.34	018		
	SK 30	20	80	33	42	52	42	M16x1	239.34	020		
	SK 40	3	80	10	17	22	12	M6			202.91	103
	SK 40	4	80	15	22	26	16	M6			202.91	104
	SK 40	5	80	15	22	30	20	M6			202.91	105
	SK 40	6	80	21	27	36	26	M5			194.54	106
	SK 40	8	80	21	27	26	26	M6			194.54	108
	SK 40	10	80	24	32	41	31	M8x1			194.54	110
	SK 40	12	80	24	32	47	37	M10x1			194.54	112
	SK 40	14	80	27	34	47	37	M10x1			194.54	114
	SK 40	16	80	27	34	50	40	M12x1			194.54	116
	SK 40	18	80	33	42	50	40	M12x1			194.54	118
long	SK 40	20	80	33	42	52	42	M16x1			194.54	120
	SK 40	25	100	44	53	58	48	M16x1			194.54	125
	SK 40	3	120	10	20	12	12				250.33	203
	SK 40	4	120	15	22	16	16				251.54	204
	SK 40	5	120	15	22	20	20				251.54	205
	SK 40	6	120	21	27	36	26	M5			251.21	206
	SK 40	8	120	21	27	36	26	M6			251.21	208
	SK 40	10	120	24	32	41	31	M8x1			251.21	210
	SK 40	12	120	24	32	47	37	M10x1			251.21	212
	SK 40	14	120	27	34	47	37	M10x1			251.21	214
extra-long	SK 40	16	120	27	34	50	40	M12x1			251.21	216
	SK 40	18	120	33	42	50	40	M12x1			251.21	218
	SK 40	20	120	33	42	52	42	M16x1			251.21	220
	SK 40	25	120	44	53	58	48	M16x1			469.16	225
	SK 40	3	160	10	20	12	12				340.97	303
	SK 40	4	160	15	22	16	16				333.12	304
	SK 40	5	160	15	22	20	20				333.12	305
	SK 40	6	160	21	27	36	26	M5			300.36	306
	SK 40	8	160	21	27	36	26	M6			300.36	308
	SK 40	10	160	24	32	41	31	M8x1			300.36	310
	SK 40	12	160	24	32	47	37	M10x1			300.36	312
	SK 40	14	160	27	34	47	37	M10x1			300.36	314
	SK 40	16	160	27	34	50	40	M12x1			300.36	316
	SK 40	18	160	33	42	50	40	M12x1			300.36	318
	SK 40	20	160	33	42	52	42	M16x1			300.36	320
	SK 40	25	160	44	53	58	48	M16x1			300.36	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	£ Y8	
short	SK 40	3	80	10	17	28	12	M6	538.16	103
	SK 40	4	80	15	22	28	16	M6	520.79	104
	SK 40	5	80	15	22	30	20	M6	520.79	105
	SK 40	6	80	21	27	36	26	M5	458.13	106
	SK 40	8	80	21	27	36	26	M6	458.13	108
	SK 40	10	80	24	32	41	31	M8x1	458.13	110
	SK 40	12	80	24	32	47	37	M10x1	458.13	112
	SK 40	14	80	27	34	47	37	M10x1	458.13	114
	SK 40	16	80	27	34	50	40	M12x1	458.13	116
	SK 40	18	80	33	42	50	40	M12x1	458.13	118
	SK 40	20	80	33	42	52	42	M16x1	458.13	120
	SK 40	25	100	44	53	58	48	M16x1	458.13	125
	SK 40	32	100	44	53	62	52	M16x1	458.13	132

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK



Sealing screw

Spare parts
DCONWS

	£ Y7		£ Y7		£ Y7	
3 - 5		M6x14 - SW2	19.83	417		
6					M5x12,5 - SW2,5	19.83 418
8					M6x12,5 - SW3	19.83 419
10					M8x1x13,5 - SW3	19.83 420
12 - 14					M10x1x13,5 - SW5	19.83 421
16 - 18					M12x1x13,5 - SW5	19.83 422
20 - 25					M16x1x13,5 - SW8	22.87 424
32		M16x1 - SW5	15.91	511		M2x6 1.60 512

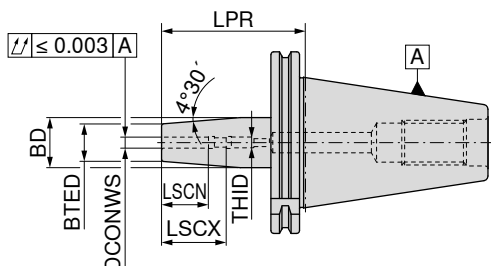
Accessories

		
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	£ Y8	
short	SK 50	6	80	21	27	36	26	M5	334.69	106
	SK 50	8	80	21	27	36	26	M6	334.69	108
	SK 50	10	80	24	32	41	31	M8x1	334.69	110
	SK 50	12	80	24	32	47	37	M10x1	334.69	112
	SK 50	14	80	27	34	47	37	M10x1	334.69	114
	SK 50	16	80	27	34	50	40	M12x1	334.69	116
	SK 50	18	80	33	42	50	40	M12x1	334.69	118
	SK 50	20	80	33	42	52	42	M16x1	334.69	120
	SK 50	25	100	44	53	58	48	M16x1	334.69	125
	SK 50	32	100	44	53	62	52	M16x1	334.69	132
long	SK 50	6	120	21	27	36	26	M5	369.21	206
	SK 50	8	120	21	27	36	26	M6	369.21	208
	SK 50	10	120	24	32	41	31	M8x1	369.21	210
	SK 50	12	120	24	32	47	37	M10x1	369.21	212
	SK 50	14	120	27	34	47	37	M10x1	369.21	214
	SK 50	16	120	27	34	50	40	M12x1	369.21	216
	SK 50	18	120	33	42	50	40	M12x1	369.21	218
	SK 50	20	120	33	42	52	42	M16x1	369.21	220
	SK 50	25	120	44	53	58	48	M16x1	369.21	225
	SK 50	32	120	44	53	62	52	M16x1	369.21	232
extra-long	SK 50	6	160	21	27	36	26	M5	411.39	306
	SK 50	8	160	21	27	36	26	M6	411.39	308
	SK 50	10	160	24	32	41	31	M8x1	411.39	310
	SK 50	12	160	24	32	47	37	M10x1	411.39	312
	SK 50	14	160	27	34	47	37	M10x1	411.39	314
	SK 50	16	160	27	34	50	40	M12x1	411.39	316
	SK 50	18	160	33	42	50	40	M12x1	411.39	318
	SK 50	20	160	33	42	52	42	M16x1	411.39	320
	SK 50	25	160	44	53	58	48	M16x1	411.39	325
	SK 50	32	160	44	53	62	52	M16x1	411.39	332

→ Min. clamping depth, Page 300



Stop screw IK

83 950 ...

Spare parts

DCONWS

	£ Y7	
6	M5x12,5 - SW2,5	19.83 418
8	M6x12,5 - SW3	19.83 419
10	M8x1x13,5 - SW3	19.83 420
12 - 14	M10x1x13,5 - SW5	19.83 421
16 - 18	M12x1x13,5 - SW5	19.83 422
20 - 32	M16x1x13,5 - SW8	22.87 424

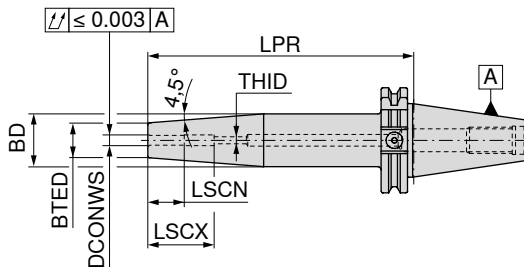
Shrink fit adapters 4.5°

- ▲ 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		
									£	Y8
short	SK 40	3	70	12	17.0				187.49	10379
	SK 40	4	70	12	17.0				187.49	10479
	SK 40	5	70	12	17.0				187.49	10579
	SK 40	6	80	21	30.5	36	26	M5	179.15	10679
	SK 40	8	80	21	30.5	36	26	M6	179.15	10879
	SK 40	10	80	24	33.5	41	31	M8x1	179.15	11079
	SK 40	12	80	24	33.5	47	37	M10x1	179.15	11279
	SK 40	14	80	27	36.5	47	37	M10x1	179.15	11479
	SK 40	16	80	27	36.5	50	40	M12x1	179.15	11679
	SK 40	18	80	33	42.5	50	40	M12x1	179.15	11879
	SK 40	20	80	33	42.5	52	42	M16x1	179.15	12079
	SK 40	25	100	44	50.0	58	48	M16x1	179.15	12579
	SK 50	6	80	21	27.0	36	26	M5	221.45	10678
	SK 50	8	80	21	27.0	36	26	M6	221.45	10878
	SK 50	10	80	24	32.0	41	31	M8x1	221.45	11078
	SK 50	12	80	24	32.0	47	37	M10x1	221.45	11278
	SK 50	14	80	27	34.0	47	37	M10x1	221.45	11478
	SK 50	16	80	27	34.0	50	40	M12x1	221.45	11678
	SK 50	18	80	33	42.0	50	40	M12x1	221.45	11878
long	SK 50	20	80	33	42.0	52	42	M12x1	221.45	12078
	SK 50	25	100	44	53.0	58	48	M16x1	221.45	12578
	SK 50	32	100	44	53.0	62	52	M16x1	221.45	13278
	SK 40	3	120	12	17.0				226.04	20379
	SK 40	4	120	12	17.0				226.04	20479
	SK 40	5	120	12	17.0				226.04	20579
	SK 40	6	120	21	31.0	36	26	M5	226.04	20679
	SK 40	8	120	21	32.0	36	26	M6	226.04	20879
	SK 40	10	120	24	34.0	41	31	M8x1	226.04	21079
	SK 40	12	120	24	34.0	47	37	M10x1	226.04	21279
	SK 40	16	120	27	36.0	50	40	M12x1	226.04	21679
	SK 40	20	120	33	44.0	52	42	M16x1	226.04	22079
	SK 50	6	120	21	27.0	36	26	M5	243.18	20678
	SK 50	8	120	21	27.0	36	26	M6	243.18	20878
	SK 50	10	120	24	32.0	41	31	M8x1	243.18	21078
	SK 50	12	120	24	32.0	47	37	M10x1	243.18	21278
	SK 50	14	120	27	34.0	47	37	M10x1	243.18	21478
	SK 50	16	120	27	34.0	50	40	M12x1	243.18	21678
	SK 50	18	120	33	42.0	50	40	M12x1	243.18	21878
	SK 50	20	120	33	42.0	52	42	M16x1	243.18	22078
	SK 50	25	120	44	53.0	58	48	M16x1	243.18	22578
	SK 50	32	120	44	53.0	62	52	M16x1	243.18	23278

→ Min. clamping depth, Page 300

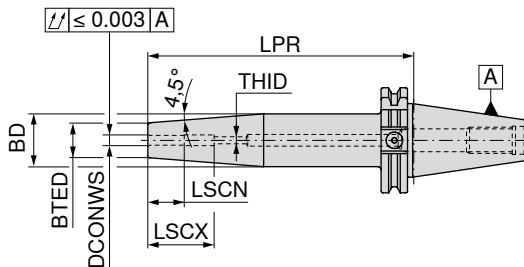
Shrink fit adapters 4.5°

- ▲ 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 ...

£
Y8

	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	269.51	30679
	SK 40	8	160	21	32.0	36	26	M6	269.51	30879
	SK 40	10	160	24	34.0	41	31	M8x1	269.51	31079
	SK 40	12	160	24	34.0	47	37	M10x1	269.51	31279
	SK 40	14	160	27	36.0	47	37	M10x1	269.51	31479
	SK 40	16	160	27	36.0	50	40	M12x1	269.51	31679
	SK 40	18	160	33	44.0	50	40	M12x1	269.51	31879
	SK 40	20	160	33	44.0	52	42	M16x1	269.51	32079
	SK 40	25	160	44	50.0	58	48	M16x1	269.51	32579
	SK 50	6	160	21	27.0	36	26	M5	270.11	30678
	SK 50	8	160	21	27.0	36	26	M6	270.11	30878
	SK 50	10	160	24	32.0	41	31	M8x1	270.11	31078
	SK 50	12	160	24	32.0	47	37	M10x1	270.11	31278
	SK 50	14	160	27	34.0	47	37	M10x1	270.11	31478
	SK 50	16	160	27	34.0	50	40	M12x1	270.11	31678
	SK 50	18	160	33	42.0	50	40	M12x1	270.11	31878
	SK 50	20	160	33	42.0	52	42	M16x1	270.11	32078
	SK 50	25	160	44	53.0	58	48	M16x1	270.11	32578
	SK 50	32	160	44	53.0	62	52	M16x1	270.11	33278

→ Min. clamping depth, Page 300



Stop screw IK

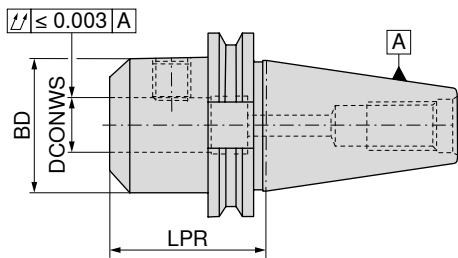
82 950 ...

£
Y8Spare parts
DCONWS

6	M5x16 - SW2,5	3.99	30000
8	M6x16 - SW3	4.25	30100
10	M8x16 - SW4	4.52	30200
12	M10x16 - SW5	4.78	30300
14	M10x16 - SW5	4.78	30300
16	M12x16 - SW6	5.05	30400
18	M12x16 - SW6	5.05	30400
20	M16x16 - SW8	5.31	30500
25	M16x16 - SW8	5.31	30500
32	M16x16 - SW8	5.31	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 ADe
G 2,5 n_{max} 18000 G 2,5 n_{max} 18000

82 401 ...

82 403 ...

£
Y8

£
Y8

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	£ Y8		£ Y8	
short	SK 30	6	50	25	85.70	00600		
	SK 30	8	50	28	83.55	00800		
	SK 30	10	50	35	83.55	01000		
	SK 30	12	50	42	83.55	01200		
	SK 30	14	63	44	83.55	01400		
	SK 30	16	63	48	83.55	01600		
	SK 30	18	63	50	83.55	01800		
	SK 30	20	70	52	83.55	02000		
extra short	SK 40	16	35	48	129.64	416	184.74	416
	SK 40	20	35	50	129.64	420	184.74	420
	SK 40	25	40	50	142.01	425	196.75	425
	SK 40	32	75	72	128.73	43200	184.25	432



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



Grubscrew

83 950 ...

£
Y8

**Spare parts
for Article no.**

82 403 425 / 82 401 425

82 403 432

M16x10

1.71

275

M14x10

1.69

259

Accessories



Pull studs

→ 57-58

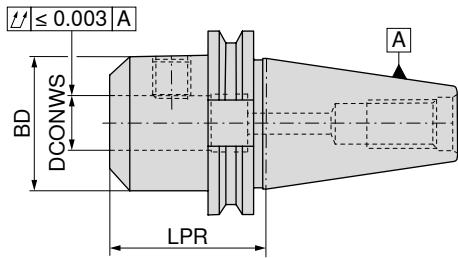


Others

→ 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

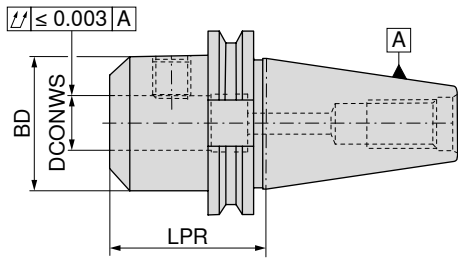


AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 401 ...		82 404 ...	
					£ Y8		£ Y8	
short	SK 40	6	50	25	88.28	106	126.13	106
	SK 40	8	50	28	88.28	108	126.13	108
	SK 40	10	50	35	88.28	110	126.13	110
	SK 40	12	50	42	88.28	112	126.13	112
	SK 40	14	50	44	88.28	114	126.13	114
	SK 40	16	63	48	88.28	116	126.13	116
	SK 40	18	63	50	88.28	118	126.13	118
	SK 40	20	63	52	88.28	120	126.13	120
	SK 40	25	100	65	88.28	125	126.13	125
	SK 40	32	100	72	100.91	132	126.13	13200
	SK 40	40	120	90	88.28	14000		
	SK 50	6	63	25	119.05	306	190.33	30600
	SK 50	8	63	28	119.05	308	190.33	30800
	SK 50	10	63	35	114.59	310	175.29	31000
	SK 50	12	63	42	114.59	312	175.29	31200
	SK 50	14	63	44	114.59	314	175.29	31400
	SK 50	16	63	48	114.59	316	191.92	31600
	SK 50	18	63	50	114.59	318	191.92	31800
	SK 50	20	63	52	114.59	320	191.92	32000
	SK 50	25	80	65	126.12	325	205.65	32500
	SK 50	32	100	72	127.41	332	216.52	33200
	SK 50	40	120	90	133.06	34000		
long	SK 40	6	100	25	94.58	506	201.23	50600
	SK 40	8	100	28	94.58	508	201.23	50800
	SK 40	10	100	35	94.58	510	192.72	51000
	SK 40	12	100	42	94.58	512	192.72	51200
	SK 40	14	100	44	94.58	514	192.72	51400
	SK 40	16	100	48	129.64	516	219.43	51600
	SK 40	18	100	50	94.58	518	219.43	51800
	SK 40	20	100	52	129.64	520	219.43	52000
	SK 40	40	120	80			278.97	54000
	SK 50	6	100	25	191.33	70600		
	SK 50	8	100	28	191.33	70800		
	SK 50	10	100	35	183.57	71000		
	SK 50	12	100	42	183.57	71200		
	SK 50	14	100	44	183.57	71400		
	SK 50	16	100	48	184.52	71600		
	SK 50	18	100	50	184.52	71800		
	SK 50	20	100	52	184.52	72000		
	SK 50	25	100	65	195.70	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

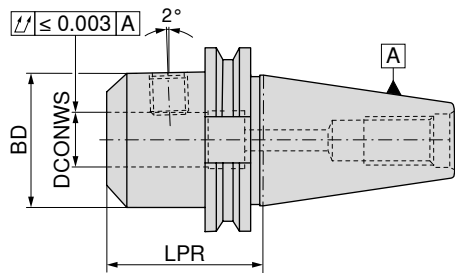
	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 401 ...		82 404 ...	
					£ Y8		£ Y8	
medium length	SK 40	6	130	25	100.91	206	120.48	206
	SK 40	8	130	28	100.91	208	120.48	208
	SK 40	10	130	35	100.91	210	116.11	210
	SK 40	12	130	42	100.91	212	116.11	212
	SK 40	14	130	44	100.91	214	116.11	214
	SK 40	16	130	48	100.91	216	124.71	216
	SK 40	18	130	50	100.91	218	124.71	218
	SK 40	20	130	52	100.91	220	124.71	220
	SK 50	6	130	25	120.33	90600	150.05	90600
	SK 50	8	130	28	120.33	90800	150.05	90800
	SK 50	10	130	35	117.87	91000	147.45	91000
	SK 50	12	130	42	117.87	91200	147.45	91200
	SK 50	14	130	44	117.87	91400	147.45	91400
	SK 50	16	130	48	118.20	91600	155.88	91600
	SK 50	18	130	50	118.20	91800	155.88	91800
	SK 50	20	130	52	118.20	92000	155.88	92000
extra-long	SK 40	25	130	65	121.47	92500	159.15	92500
	SK 40	6	160	25	100.91	606		
	SK 40	8	160	28	100.91	608		
	SK 40	10	160	35	100.91	610		
	SK 40	12	160	42	100.91	612		
	SK 40	14	160	44	100.91	614		
	SK 40	16	160	48	100.91	616		
	SK 40	18	160	50	100.91	618		
	SK 40	20	160	52	100.91	620		
	SK 40	25	160	65	100.91	625		
	SK 50	6	160	25	195.70	80600		
	SK 50	8	160	28	195.70	80800		
	SK 50	10	160	35	201.10	81000		
	SK 50	12	160	42	201.10	81200		
	SK 50	14	160	44	201.10	81400		
	SK 50	16	160	48	201.71	81600		
	SK 50	18	160	50	201.71	81800		
	SK 50	20	160	52	201.71	82000		
	SK 50	25	160	65	213.12	82500		
	SK 50	32	160	72	216.18	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**

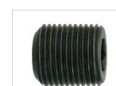


AD/B
G 2,5 n_{max} 18000

82 407 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		£ Y8	
short	SK 40	6	50	25		132.35	106
	SK 40	8	50	28		132.35	108
	SK 40	10	50	35		122.58	110
	SK 40	12	50	42		122.58	112
	SK 40	14	50	44		122.58	114
	SK 40	16	63	48		135.05	116
	SK 40	18	63	50		135.05	118
	SK 40	20	63	52		135.05	120
	SK 40	25	100	65		144.76	12500
	SK 40	32	100	72		157.72	13200
	SK 50	8	63	28		193.50	30800
	SK 50	10	63	35		184.57	31000
	SK 50	12	63	42		184.57	31200
	SK 50	14	63	44		184.57	31400
	SK 50	16	63	48		185.69	31600
	SK 50	18	63	50		185.69	31800
	SK 50	20	63	52		185.69	32000
	SK 50	25	80	65		202.94	32500
	SK 50	32	100	72		206.60	33200
medium length	SK 40	6	63	25		193.50	30600
	SK 40	6	130	25		141.39	206
	SK 40	8	130	28		141.39	208
	SK 40	10	130	35		92.57	210
	SK 40	12	130	42		92.57	212
	SK 40	16	130	48		142.26	216
	SK 40	20	130	52		142.26	220
	SK 40	25	130	65		169.96	225
	SK 50	6	130	25		222.25	90600
	SK 50	8	130	28		222.25	90800
	SK 50	10	130	35		213.89	91000
	SK 50	12	130	42		213.89	91200
	SK 50	16	130	48		214.92	91600
	SK 50	20	130	52		214.92	92000
	SK 50	25	130	65		227.68	92500
	SK 50	32	130	72		226.61	93200

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



Grubscrew



Stop screw IK

62 950 ...

83 950 ...

Spare parts DCONWS

		£ W7			£ Y8	
6	M6x10	0.91	006	M5x35	3.19	033
8	M8x10	0.91	008	M6x35	2.16	034
10	M10x12	1.75	010	M8x35	2.30	035
12 - 14	M12x16	1.39	012	M10x35	3.14	036
16 - 18	M14x16	1.71	016	M12x40	2.80	037
20	M16x16	1.83	020	M16x45	2.71	272
25	M18x2x20	3.53	025	M20x35	4.80	290

Accessories



Pull studs

→ 57-58

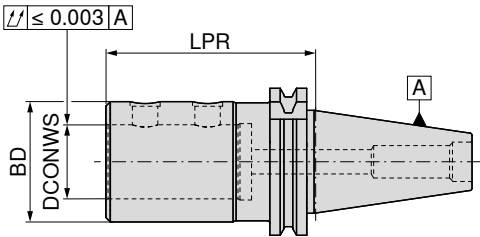


Others

→ 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	£ 2E/45	
SK 40	20	80	40	123.43	120
SK 40	25	85	45	123.43	125
SK 40	32	90	52	123.43	132
SK 50	20	80	40	156.83	220
SK 50	25	85	45	156.83	225
SK 50	32	90	52	156.83	232
SK 50	40	90	65	156.83	240
SK 50	50	100	75	156.83	250

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



Grubscrew

10 950 ...

Spare parts

DCONWS		£ 2A/28	
20	M10x1x10	3.66	001
25 - 32	M12x1x10	3.66	002
40 - 50	M16x1x12	3.66	003

Accessories



Pull studs

Others

→ 57-58

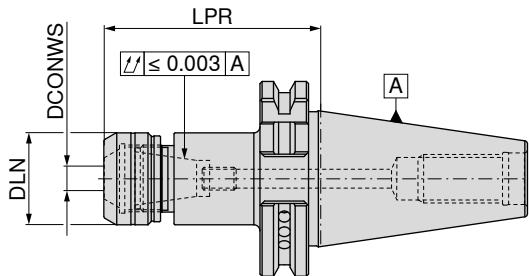
→ 273

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	£ Y8	
SK 40	1 - 10	70	30	426E (ER16)	40 / 2-70	179.07	11079
SK 40	1 - 10	100	30	426E (ER16)	40 / 2-70	257.95	21079
SK 40	2 - 16	70	40	430E (ER25)	80 / 10-160	179.07	11679
SK 40	2 - 16	100	40	430E (ER25)	80 / 10-160	257.95	21679
SK 40	2 - 20	70	50	470E (ER32)	125 / 15-250	179.07	12079
SK 40	2 - 20	100	50	470E (ER32)	125 / 15-250	257.95	22079
SK 50	2 - 16	70	40	430E (ER25)	80 / 10-160	337.35	11678
SK 50	2 - 16	100	40	430E (ER25)	80 / 10-160	418.95	21678
SK 50	2 - 20	70	50	470E (ER32)	125 / 15-250	337.35	12078
SK 50	2 - 20	100	50	470E (ER32)	125 / 15-250	418.95	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

	£ Y8		£ Y8		£ Y8		£ Y8	
426E (ER16)	68.07	11000	64.14	01000	6.41	00100	6.41	00100
430E (ER25)	68.07	11600	64.14	01600	8.72	00200	6.41	00300
470E (ER32)	68.07	12000	64.14	02000	8.72	00200	6.41	00300

Accessories

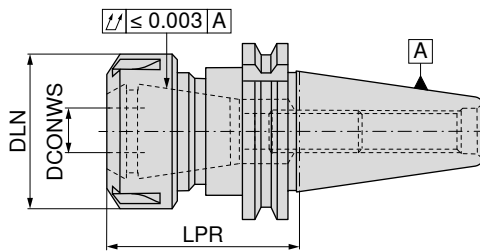
ER collet	Sealing ring	Roll key
→ 256–266	→ 270	→ 275

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	SK 30	1 - 10	70	32	8 - 56	426E (ER16)	£		
	SK 30	1 - 16	70	42	24 - 104	430E (ER25)	Y8		
	SK 30	2 - 20	70	50	24 - 136	470E (ER32)	112.42	01000	
							112.42	01600	
							109.14	02000	
	SK 40	1 - 10	60	32	8 - 56	426E (ER16)			88.28 110
	SK 40	1 - 16	70	42	24 - 104	430E (ER25)			92.57 116
	SK 40	2 - 20	70	50	24 - 136	470E (ER32)			92.57 120
	SK 40	3 - 26	70	63	176	472E (ER40)			97.71 126
	SK 50	1 - 10	60	32	8 - 56	426E (ER16)			186.69 31000
	SK 50	1 - 16	70	42	24 - 104	430E (ER25)			148.71 31600
	SK 50	2 - 20	70	50	24 - 136	470E (ER32)			150.01 32000
	SK 50	3 - 26	70	63	176	472E (ER40)			153.08 32600
	SK 30	1 - 10	100	32	8 - 56	426E (ER16)	132.18	21000	
	SK 30	1 - 16	100	42	24 - 104	430E (ER25)	132.18	21600	
	SK 30	2 - 20	100	50	24 - 136	470E (ER32)	112.42	22000	
long	SK 40	1 - 10	120	32	8 - 56	426E (ER16)			100.91 410
	SK 40	1 - 16	120	42	24 - 104	430E (ER25)			100.91 416
	SK 40	2 - 20	120	50	24 - 136	470E (ER32)			100.91 420
	SK 40	3 - 26	100	63	176	472E (ER40)			228.27 42600
	SK 50	1 - 10	100	32	8 - 56	426E (ER16)			180.76 71000
	SK 50	1 - 16	100	42	24 - 104	430E (ER25)			192.38 71600
	SK 50	2 - 20	100	50	24 - 136	470E (ER32)			205.22 72000
	SK 50	3 - 26	100	63	176	472E (ER40)			214.76 72600
	SK 40	1 - 10	160	32	8 - 56	426E (ER16)			154.72 61000
	SK 40	2 - 16	160	42	24 - 104	430E (ER25)			232.13 61600
	SK 40	2 - 20	160	50	24 - 136	470E (ER32)			255.94 62000
	SK 40	3 - 26	160	63	176	472E (ER40)			161.24 62600
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)			209.70 81600
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)			232.31 82000
extra-long	SK 40	1 - 10	160	32	8 - 56	426E (ER16)			154.72 61000
	SK 40	2 - 16	160	42	24 - 104	430E (ER25)			232.13 61600
	SK 40	2 - 20	160	50	24 - 136	470E (ER32)			255.94 62000
	SK 40	3 - 26	160	63	176	472E (ER40)			161.24 62600
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)			209.70 81600
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)			232.31 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

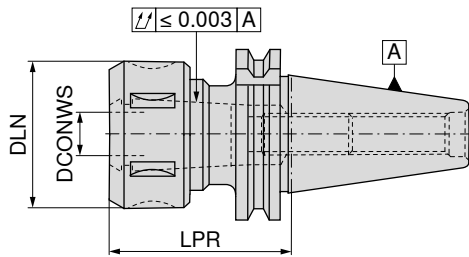
Lock nut IK	Lock nut	Y clamping key	Stop screw IK
83 950 ...	62 950 ...	83 357 ...	83 950 ...
£	£	£	£
Y8	W7	Y8	Y8
68.61 054	21.20 054	23.31 116	
79.92 055	22.08 055	23.31 125	2.80 010
79.92 055	22.08 055	23.31 125	2.80 010
85.48 056	22.64 056	33.95 132	2.80 010
85.48 056	22.64 056	33.95 132	2.80 010
102.87 057	23.45 057	38.47 140	2.71 011

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

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	SK 30	2 - 16	60	43	24 - 104	415E / 421E	£ Y8	
	SK 30	2 - 25	80	60	24 - 176	459E / 462E	112.06	01600
							117.84	02500
	SK 40	2 - 16	70	43	80 - 90	415E / 421E		140.12 116
	SK 40	2 - 25	70	60	90 - 100	459E / 462E		147.18 125
long	SK 50	2 - 16	70	43	80 - 90	415E / 421E		182.75 32500
	SK 50	2 - 25	70	60	90 - 100	459E / 462E		203.69 33200
	SK 50	4 - 32	70	72	110 - 120	460E / 467E		293.06 34000
	SK 40	2 - 16	120	43	80 - 90	415E / 421E		199.58 416
	SK 40	2 - 25	120	60	90 - 100	459E / 462E		208.27 425
	SK 40	4 - 32	100	72	227	460E / 467E		131.66 43200
	SK 50	2 - 16	100	43	80 - 90	415E / 421E		252.19 72500
	SK 50	2 - 25	100	60	90 - 100	459E / 462E		268.80 73200

Spare parts for collet

		£ W7	050	£ Y8	116		£ Y8	010
415E / 421E	M33x1,5	37.10	050	23.31	116	M10x50	2.80	010
459E / 462E	M48x2	38.72	051	18.68	125	M10x50	2.80	010
460E / 467E	M60x2,5	63.47	052	27.43	132	M12x50	2.71	011

Accessories

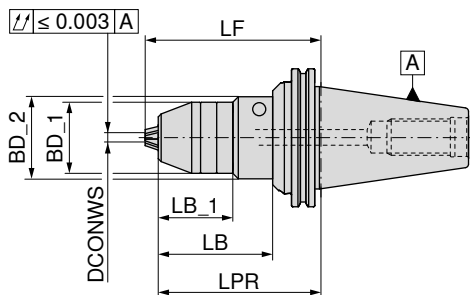
OZ Collet	Pull studs	Others
→ 268	→ 57-58	→ 273

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		AD		AD/B	
								G 6,3 n _{max} 10000		G 6,3 n _{max} 10000		G 6,3 n _{max} 10000	
								84 418 ...		84 419 ...		84 420 ...	
Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LF mm	£ Y8		£ Y8		£ Y8	
SK 30	0,5 - 10	80	43.0			59.9	89.0	443.50	313				
SK 40	0,5 - 13	80	48.5			60.8	89.0	443.50	413	402.37	413		
SK 40	0,5 - 13	80	48.5		50.9		89.0					531.24	413
SK 40	2,5 - 16	80	51.0			60.0	90.5			395.13	416		
SK 40	2,5 - 16	80	51.0			60.8	90.5	367.52	416				
SK 40	2,5 - 16	80	51.0		50.9		90.5					554.33	416
SK 50	0,5 - 13	110	48.5	56	50.9	78.0	119.0			598.93	513		
SK 50	0,5 - 13	110	48.5	56	50.9	78.1	119.0	522.96	513				
SK 50	2,5 - 16	110	51.0	56	50.9	78.0	120.5			550.55	516		
SK 50	2,5 - 16	110	56.0		50.9	78.0	120.5	522.96	516				



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

Accessories



Pull studs

Others

→ 57-58

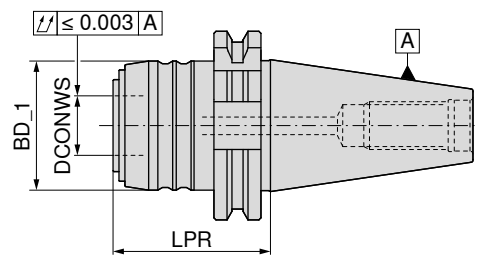
→ 273

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	£	
SK 40	M6 - M20	2	90	60	32	1,0 / 0,2	Y8	
							286.31	012
							371.40	020
SK 50	M3 - M12	1	53	43	20	1,0 / 0,2	311.02	112
SK 50	M6 - M20	2	74	60	32	1,0 / 0,2	481.38	120

Accessories




Pull studs

Others

→ 57-58

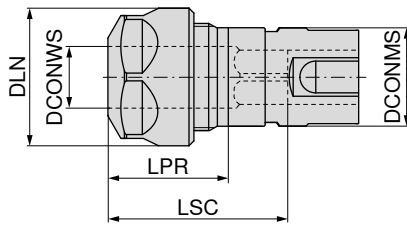
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



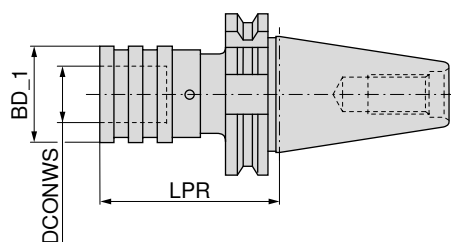
								83 608 ...	
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	£ Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	195.17	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	227.34	020

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.				£ W7		£ Y8		£ W7		£ Y8	
83 608 012				M22x1,5 - SW25	26.65	044	M22x1,5	68.61	054	23.31	116
83 608 020							M32x1,5	79.92	055	23.31	125
							M32x1,5	22.08	055		

Quick change tap chuck with length compensation

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



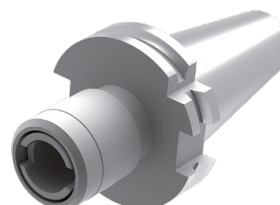
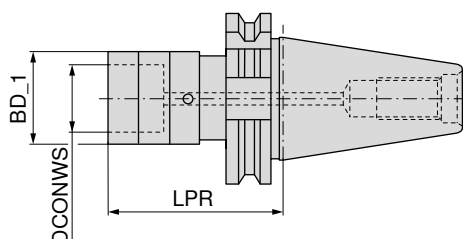
A

83 428 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	£ Y8	
SK 30	M3 - M12	01	60	38	19	9	484.28	312
SK 30	M6 - M20	02	101	55	31	15	550.19	320
SK 40	M3 - M12	01	60	38	19	9	374.01	412
SK 40	M6 - M20	02	100	55	31	15	405.28	420
SK 50	M3 - M12	01	62	38	19	9	558.58	512
SK 50	M6 - M20	02	83	55	31	15	605.07	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	£ Y8	
SK 30	02	80	50	31	390.64	320
SK 30	01	59	33	19	390.64	312
SK 40	02	86	50	31	294.39	420
SK 40	01	59	33	19	275.16	412
SK 50	01	75	33	19	368.79	512
SK 50	02	98	50	31	401.77	520

Accessories

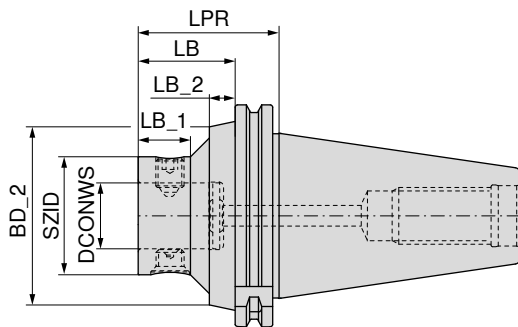
		
Collet	Pull studs	Others
→ 277-281	→ 57-58	→ 273

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

NEW



AD/B

G 6,3 n_{max} 8000

Adapter	KOMET no.	SZID	DCONWS	LPR	LB	LB_1	LB_2	BD_2	84 211 ...	84 201 ...
			mm	mm	mm	mm	mm	mm	£ 3E	£ 3E
SK 40	A50 00120	ABS 25	13	50	30.9	23.0			713.35 04090	792.18 04090
SK 40	A50 55120	ABS 25	13	50	30.9	20.0	7.9	50	713.35 04089	792.18 04089
SK 40	A50 00130	ABS 32	16	50	30.9	23.0			713.35 04088	792.18 04088
SK 40	A50 55130	ABS 32	16	50	30.9	20.0	7.9	50	713.35 04097	369.32 04097
SK 40	A50 00140	ABS 40	20	50	30.9				713.35 04096	804.88 04096
SK 40	A50 55140	ABS 40	20	50	30.9	20.0		50		
SK 40	A50 00150	ABS 50	28	50	30.9					
SK 40	A50 55150	ABS 50	28	50	30.9					
SK 40	A50 00160	ABS 63	34	90	70.9		15.9	50		
SK 40	A50 55160	ABS 63	34	90	70.9		15.9	50		
SK 50	A50 00320	ABS 25	13	60	40.9	31.0			815.52 05090	936.94 05090
SK 50	A50 55320	ABS 25	13	60	40.9	20.0	12.9	80	815.52 05089	926.29 05089
SK 50	A50 00330	ABS 32	16	60	40.9	31.0			815.52 05088	926.29 05088
SK 50	A50 55330	ABS 32	16	60	40.9	20.0	12.9	80	815.52 05097	431.83 05097
SK 50	A50 00340	ABS 40	20	60	40.9	31.0			826.17 05096	936.94 05096
SK 50	A50 55340	ABS 40	20	60	40.9	20.0	12.9	80	841.11 05092	949.63 05092
SK 50	A50 00350	ABS 50	28	60	40.9				930.59 05091	1,009.42 05091
SK 50	A50 55350	ABS 50	28	60	40.9	22.0	10.9	80	1,056.10 05085	
SK 50	A50 00360	ABS 63	34	60	40.9					
SK 50	A50 55360	ABS 63	34	60	40.9	30.4	7.3	80		
SK 50	A50 00370	ABS 80	46	70	50.9					
SK 50	A50 55370	ABS 80	46	70	50.9					
SK 50	A50 00380	ABS 100	56	115	95.9		15.9	80		
SK 50	A50 55380	ABS 100	56	115	95.9		15.9	80		
SK 50	A50 00390	ABS 125	70	145	125.9					

Conversion kit – Cooling agent supply



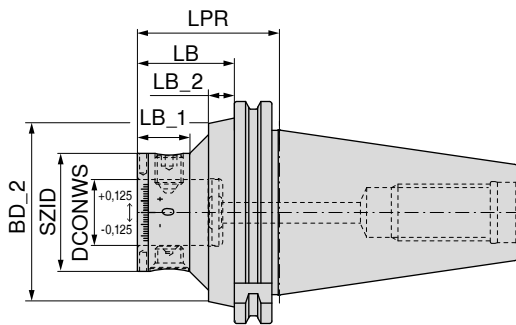
for		84 950 ...
		£ W7
4 mm	SK 40	5.75 23200
6 mm	SK 50	5.75 23400

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 ...

£

W4

502.04 04097

646.22 04096

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			
SK 40	A50 56160	ABS 63	34	90	70.9		15.9	50
SK 50	A50 56350	ABS 50	28	60	40.9	22.0	10.9	80
SK 50	A50 56360	ABS 63	34	60	40.9	30.4	7.3	80

563.17 05097

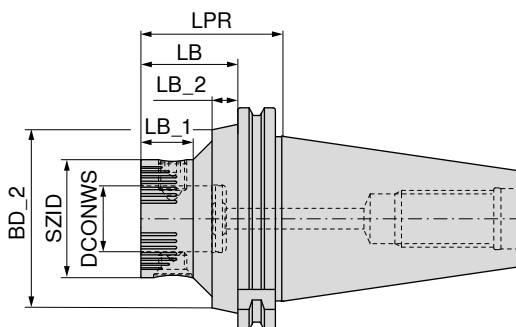
739.89 05096

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 ...

£

3E

637.35 04097

622.37 04096

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			
SK 40	A50 01361	ABS 63	34	90	70.9		15,9	50
SK 50	A50 01451	ABS 50	28	60	40.9	22,0	10,9	80
SK 50	A50 01461	ABS 63	34	60	40.9	30,4	7,3	80
SK 50	A50 01470	ABS 80	46	70	50.9			

710.76 05097

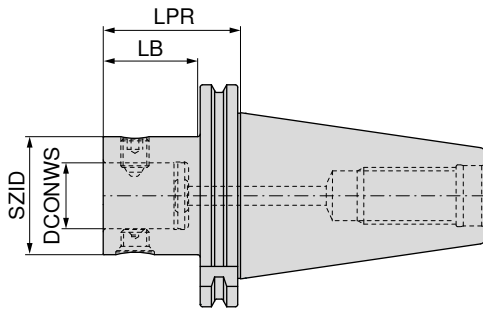
657.68 05096

721.63 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

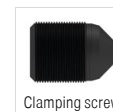
84 213 ...

£
3E

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm		
SK-FC 40	A50 57151	ABS 50	28	50	30.9	1,166.88	04097
SK-FC 40	A50 57161	ABS 63	34	90	70.9	1,201.06	04096
SK-FC 50	A50 57351	ABS 50	28	60	40.9	1,286.24	05097
SK-FC 50	A50 57361	ABS 63	34	60	40.9	1,286.24	05096
SK-FC 50	A50 57371	ABS 80	46	70	50.9	1,369.17	05092
SK-FC 50	A50 57381	ABS 100	56	115	95.9	1,486.29	05091

Spare parts

ABS 50	8.63	20300	19.57	99800	10.97	20400
ABS 63	8.22	25500	18.45	99400	10.42	27300
ABS 80	10.10	25600	22.38	99300	12.30	25100
ABS 100	12.45	25700	26.03	99200	13.65	25200



Clamping screw

84 950 ...

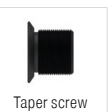
£
XX



Set

84 950 ...

£
XX



Taper screw

84 950 ...

£
XX

Accessories



Pull studs

→ 57–58

Extension

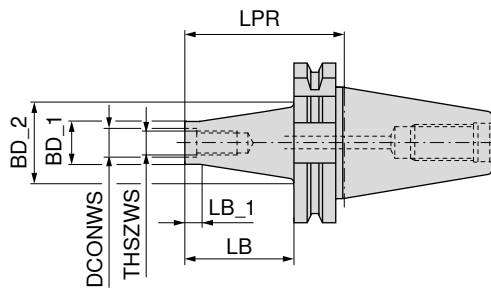
→ 193

Others

→ 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 16 n_{max} 8000

56 707 ...

£
WA



AD
G 6,3 n_{max} 18000

56 705 ...

£
WA



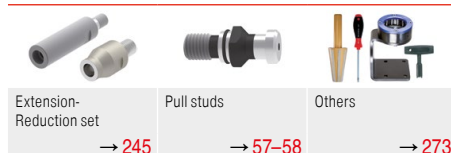
AD
G 2,5 n_{max} 30000

56 703 ...

£
WA

Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR			
		mm	mm	mm	mm	mm	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		202.78	081
SK 40	M8	8.5	50	13.8	23.0	12	69		207.74	082
SK 40	M8	8.5	75	13.8	25.0	12	94		212.54	083
SK 40	M10	10.5	25	18.0	23.0	12	44		202.78	101
SK 40	M10	10.5	50	18.0	25.0	12	69		207.74	102
SK 40	M10	10.5	75	18.0	30.0	12	94		212.54	103
SK 40	M10	10.5	100	18.0	35.0	12	119		217.49	104
SK 40	M12	12.5	25	21.0	24.0	12	44		202.78	121
SK 40	M12	12.5	50	21.0	30.0	12	69		207.74	122
SK 40	M12	12.5	75	21.0	35.0	12	94		212.54	123
SK 40	M12	12.5	100	21.0	38.0	12	119		217.49	124
SK 40	M16	17.0	25	29.0	29.0	12	44		202.78	161
SK 40	M16	17.0	50	29.0	34.0	12	69		207.74	162
SK 40	M16	17.0	75	29.0	35.0	12	94		212.54	163
SK 40	M16	17.0	100	29.0	40.0	12	119		217.49	164
SK 40	M16	17.0	125	29.0	44.0	12	144		222.26	165
SK 40	M16	17.0	150	29.0	48.0	12	169		227.23	166
SK 40	M16	17.0	200	29.0	50.0	12	219		236.99	167
SK 50	M12	12.5	50	21.0	30.0	12	69	287.79	122	
SK 50	M12	12.5	100	21.0	38.0	12	119	297.53	124	
SK 50	M12	12.5	150	21.0	52.0	12	169	307.28	126	
SK 50	M16	17.0	50	29.0	34.0	12	69	287.79	162	
SK 50	M16	17.0	100	29.0	40.0	12	119	292.58	164	
SK 50	M16	17.0	150	29.0	48.0	12	169	302.33	166	
SK 50	M16	17.0	200	29.0	58.0	12	219	312.07	167	
SK 50	M16	17.0	250	29.0	62.0	12	269	321.98	168	

Accessories



Extension-
Reduction set

→ 245

Pull studs

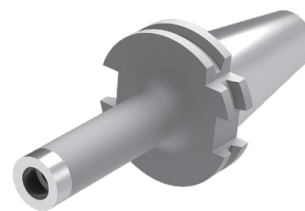
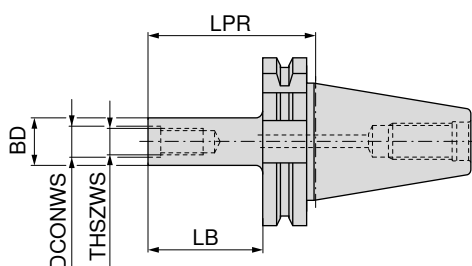
→ 57–58

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	£ WA	
SK 40	M8	8.5	50	13.8	69	220.68	082
SK 40	M10	10.5	50	18.0	69	220.68	102
SK 40	M10	10.5	75	18.0	94	225.63	103
SK 40	M10	10.5	100	18.0	119	230.60	104
SK 40	M12	12.5	50	21.0	69	220.68	122
SK 40	M12	12.5	75	21.0	94	225.63	123
SK 40	M12	12.5	100	21.0	119	230.60	124
SK 40	M16	17.0	50	29.0	69	220.68	162
SK 40	M16	17.0	75	29.0	94	225.63	163
SK 40	M16	17.0	100	29.0	119	230.60	164

Accessories

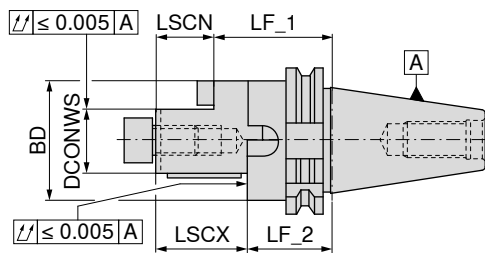
Extension-Reduction set → 245	Pull studs → 57–58	Others → 273

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		
	SK 30	22	50	40	31	19	38		
	SK 30	27	55	48	33	21	43		
	SK 30	32	60	58	38	24	46		
	SK 40	16	55	32	27	17	45		
	SK 40	22	55	40	31	19	43		
	SK 40	27	55	48	33	21	43		
	SK 40	32	60	58	38	24	46		
	SK 40	40	60	70	41	27	46		
	SK 50	16	55	32	27	17	45		
	SK 50	22	55	40	31	19	43		
	SK 50	27	55	48	33	21	43		
	SK 50	32	55	58	38	24	41		
	SK 50	40	55	70	41	27	41		
	SK 50	50	70	90	46	30	54		
long	SK 40	16	100	32	27	17	90		
	SK 40	22	100	40	31	19	88		
	SK 40	27	100	48	33	21	88		
	SK 40	32	100	58	38	24	86		
	SK 40	40	100	70	41	27	86		

£
Y8
111.32 01600
111.32 02200
133.29 02700
140.01 03200

148.47 116
154.25 122
157.43 127
165.89 132
174.86 140 ¹⁾

201.71 316
206.77 322
224.19 327
230.20 332
239.04 340 ¹⁾
261.98 350 ¹⁾

121.31 21600
126.19 22200
128.58 22700
135.65 23200
142.93 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		Y8		Y8		Y8		Y8		Y8			
16	4 x 4 x 20	3.45	284	12.74	116	21.07	116	M8	5.60	016	M8x25	5.93	113
22	6 x 6 x 25	3.45	285	12.23	122	26.21	122	M10	6.23	022	M10x25	6.70	124
27	7 x 7 x 25	5.48	286	15.26	127	30.81	127	M12	7.96	027	M12x30	7.40	125
32	8 x 7 x 28	3.90	287	16.01	132	42.00	132	M16	12.50	032	M16x35	9.02	126
40	10 x 8 x 32	4.60	288	26.96	140	41.71	140	M20	13.38	040	M20x40 - SW17	9.94	112
50	12 x 8 x 36	4.60	289	54.25	150	59.45	150	M24	34.03	050			

Accessories



Pull studs



Milling Adapter Rings



Others

→ 57-58

→ 253

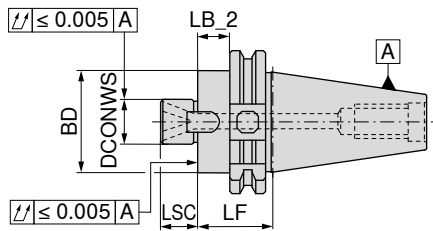
→ 273

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

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 428 ...		82 428 ...	
							£ Y8		£ Y8	
short	SK 30	16	21.0	40	38	17	106.96	01600		
	SK 30	22	14.6	50	48	19	106.96	02200		
	SK 30	27	19.3	55	58	21	125.66	02700		
	SK 30	32	31.0	50	78	24	132.93	03200		
	SK 40	16	25.0	44	38	17			114.59	116
	SK 40	22	25.0	44	48	19			124.69	122
	SK 40	27	36.0	55	58	21			126.12	127
	SK 40	32	31.0	50	78	24			133.06	132
	SK 40	40	31.0	50	88	27			144.60	140 ¹⁾
	SK 50	16	25.0	44	38	17			168.40	316
	SK 50	22	25.0	44	48	19			174.03	322
	SK 50	27	25.0	44	58	21			178.16	327
	SK 50	32	21.0	40	78	24			194.16	332
	SK 50	40	31.0	50	88	27			198.16	340 ¹⁾
	SK 40	16	81.0	100	38	17			123.14	416
	SK 40	22	81.0	100	48	19			130.23	422
long	SK 40	27	81.0	100	58	21			133.06	427
	SK 40	32	81.0	100	78	24			140.12	432
	SK 40	40	81.0	100	88	27			148.71	440 ¹⁾
	SK 50	16	81.0	100	38	17			235.60	616
	SK 50	22	81.0	100	48	19			240.67	622
	SK 50	27	81.0	100	58	21			247.62	627
	SK 50	32	81.0	100	78	24			255.05	632
	SK 50	40	81.0	100	88	27			259.96	640 ¹⁾
	SK 40	16	111.0	130	38	17			130.50	816
	SK 40	22	111.0	130	48	19			134.77	822
medium length	SK 40	27	111.0	130	58	21			136.85	827
	SK 40	32	111.0	130	78	24			143.40	832
	SK 40	40	111.0	130	88	27			149.76	840 ¹⁾
	SK 50	16	111.0	130	38	17			206.73	916
	SK 50	22	111.0	130	48	19			210.77	922
	SK 50	27	111.0	130	58	21			216.56	927
	SK 50	32	111.0	130	78	24			222.33	932
	SK 50	40	111.0	130	88	27			226.36	940
	SK 40	16	141.0	160	38	17			168.85	516
	SK 40	22	141.0	160	48	19			174.03	522
extra-long	SK 40	27	141.0	160	58	21			176.62	527
	SK 40	32	141.0	160	78	24			184.98	532
	SK 40	40	141.0	160	88	27			192.74	540 ¹⁾
	SK 50	16	141.0	160	38	17			256.57	716
	SK 50	22	141.0	160	48	19			261.25	722
	SK 50	27	141.0	160	58	21			268.80	727
	SK 50	32	141.0	160	78	24			276.95	732
	SK 50	40	141.0	160	88	27			279.54	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)!

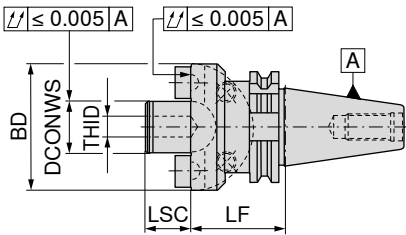
Spare parts facemill adapters

Large diameter facemill adapter

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

Scope of supply:

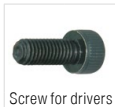
Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws



A
G 6,3 n_{max} 8000

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

82 432 ...
£ Y8
303.89
040
322.60
395.15
240
260



Screw for drivers



Driver



clamping screw

Spare parts

40	M6x16	1.65	138	15,9x16,3x19,5	21.97	295	M12x50	7.39	140
60				25,4x16,3x26,5	24.77	298	M16x45	15.19	160

Accessories



Pull studs



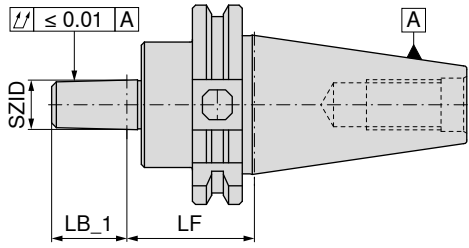
Others

→ 57-58

→ 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	£ Y8	
SK 40	B12	40	18.5	146.87	112
SK 40	B16	40	24.0	146.87	116
SK 50	B16	40	24.0	178.93	316
SK 50	B18	40	32.0	178.93	318

Spare parts

SZID		£ Y8			£ Y8	
B12	0 - 8 mm	154.05	012	0 - 10 mm	182.16	112
B16	1 - 13 mm	218.33	016	3 - 16 mm	178.26	116
B18				3 - 16 mm	232.48	018

Accessories



Pull studs
→ 57-58



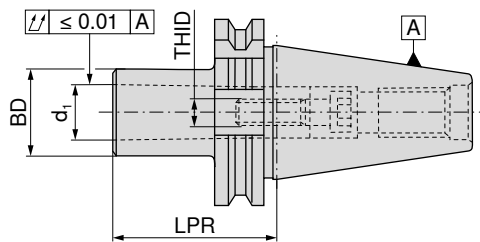
Others
→ 273

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	£	
	SK 40	MK2	50	32	M10	Y8	
	SK 40	MK3	70	40	M12	142.01	110
	SK 40	MK4	95	48	M16	142.01	120
						148.47	130
						154.25	140
	SK 50	MK1	45	25	M6	196.75	310
	SK 50	MK2	60	32	M10	196.75	320
	SK 50	MK3	65	40	M12	196.75	330
	SK 50	MK4	95	48	M16	207.00	340
	SK 50	MK5	120	63	M20	235.37	350

Morse taper
clamping screw

Counterscrew

Hollow key with
nose

Fixing ring

		83 950 ...		83 950 ...		83 359 ...		83 950 ...				
Spare parts		£		£		£		£				
for Article no.		Y8		Y8		Y8		Y8				
82 446 110	M6x30	0.96	260	M5x6	0.79	030	16 x 32	36.27	013	M16x8x6,5	10.65	265
82 446 120	M10x30	2.05	261	M5x8	0.79	031	16 x 32	36.27	013	M16x8x10,5	10.65	267
82 446 130	M12x35	1.31	018	M5x6	0.79	030	17 x 117	40.94	017	M20x1,5x10x13	14.48	269
82 446 140	M16x40	6.22	019	M5x8	0.79	031	23 x 145	49.78	023	M26x1,5x17	14.48	270
82 446 310	M6x30	0.96	260	M5x8	0.79	031	20 x 135	43.62	020	M24x10x6,5	12.57	266
82 446 320	M10x30	1.31	017	M5x8	0.79	031	20 x 135	43.62	020	M24x10x10,5	12.57	268
82 446 330	M10x30	1.31	017	M5x8	0.79	031	17 x 117	40.94	017	M20x1,5x10x13	14.48	269
82 446 340	M16x40	6.22	019	M5x8	0.79	031	23 x 145	49.78	023	M26x1,5x17	14.48	270
82 446 350	M20x50	11.63	262	M5x8	0.79	031	33 x 175	61.66	033	M36x1,5x21	17.86	271

Accessories



Pull studs



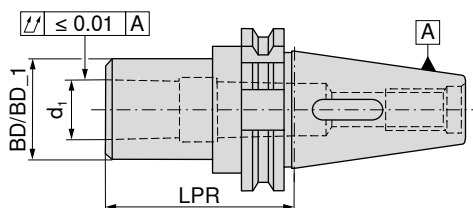
Others

→ 57–58

→ 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 ...

£
Y8

	Adapter	d ₁	LPR mm	BD mm	BD_1 mm		
short	SK 30	MK1	50	25		115.69	01000
	SK 30	MK2	63	32		105.87	02000
	SK 30	MK3	80	40		105.87	03000
	SK 40	MK1	50		25	100.44	110
	SK 40	MK2	50		32	103.29	120
	SK 40	MK3	70		40	110.45	130
	SK 40	MK4	95	48		116.09	140
	SK 50	MK1	50		25	126.12	310
	SK 50	MK2	60		32	130.23	320
	SK 50	MK3	65		40	134.82	330
	SK 50	MK4	95		48	140.12	340
	SK 50	MK5	105		63	153.08	350
long	SK 40	MK2	117	32		175.84	22000
	SK 40	MK3	133	40		195.49	23000
	SK 40	MK4	156	48		213.07	24000

Accessories

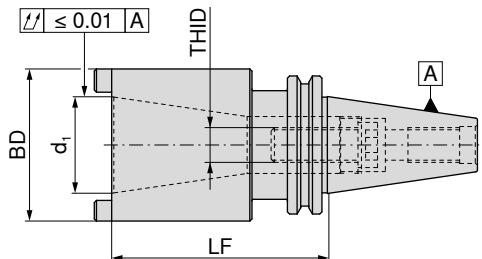
		
Morse taper adapter sleeve	Pull studs	Others
→ 230	→ 57–58	→ 273

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		

Spare parts for Article no.

	£ Y8		£ Y8		£ Y8		£ Y8	
82 453 03000			4.97	18400	0.79	030	40.94	017
82 453 040	10.42	009			0.79	030	49.78	023
82 453 240	11.17	264						
82 453 250	36.73	256			0.79	031	61.81	133

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

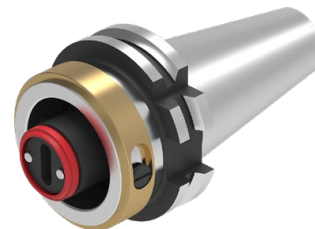
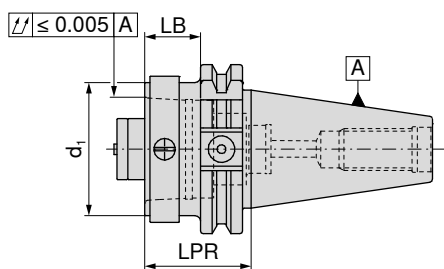
ISO 7388-1	Norm of the SK-shank		Clamping screw length				
Suitable for article no.	Ø d ₁ ISO 7388-1	Ø d ₁ DIN 2080	THID	Clamping screw SK Article no.	retaining ring Article no.	lock screw Article no.	hollow key Article no.
82 453 03000		SK 30	M12 x 40	83 950 18400	83 950 18500	83 950 030	83 359 017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

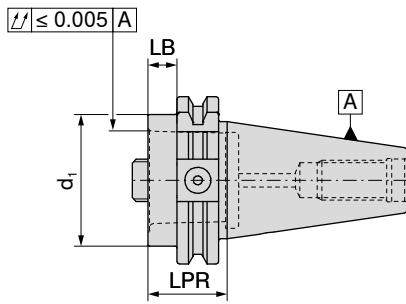
84 014 ...

Adapter	d ₁	LB mm	LPR mm	£ Y8	
SK 40	HSK-A 32	20.9	40	867.51	04060
SK 40	HSK-A 40	20.9	40	884.90	04059
SK 40	HSK-A 50	20.9	40	902.48	04058
SK 40	HSK-A 63	60.9	80	884.90	04057
SK 50	HSK-A 100	80.9	100	1,390.28	05055
SK 50	HSK-A 32	20.9	40	1,093.93	05060
SK 50	HSK-A 40	20.9	40	1,093.93	05059
SK 50	HSK-A 50	20.9	40	1,111.51	05058
SK 50	HSK-A 63	20.9	40	1,181.25	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



Adapter	d ₁	LB mm	LPR mm		
SK 40	PSC 32	10.9	30		
SK 40	PSC 40	10.9	30		
SK 40	PSC 50	10.9	30		
SK 40	PSC 63	65.9	85		
SK 50	PSC 32	10.9	30		
SK 50	PSC 40	10.9	30		
SK 50	PSC 50	10.9	30		
SK 50	PSC 63	10.9	30		
SK 50	PSC 80	50.9	70		

84 015 ...	
£	
Y8	
553.77	04087
571.35	04095
571.35	04094
553.77	04093
763.18	05087
902.48	05095
780.38	05094
797.77	05093
850.12	05086



Threaded ring



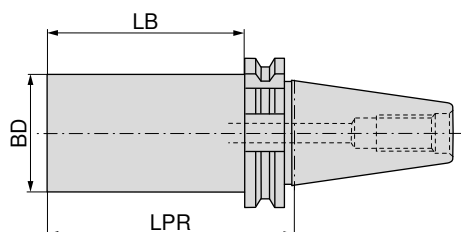
tightening screw

Spare parts DCONWS

	£			£	
	Y8			Y8	
22	41.15	127	SW8	29.87	122
28	41.15	128	SW8	33.67	123
35	41.15	129	SW10	33.67	124
44	82.16	130	SW14	37.47	126
55	82.16	130	SW14	37.47	126

Blank

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



AD/B

82 458 ...

£

Y8

164.71 040

293.06 050

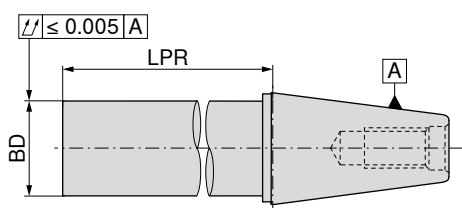
Adapter	BD mm	LPR mm	LB mm
SK 40	63.0	250	231
SK 50	63.5	300	281

Test bar

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

Scope of supply:

in wooden box



A

82 456 ...

£

Y8

771.57 040

954.42 050

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

Accessories



Pull studs

→ 57–58, 111–112



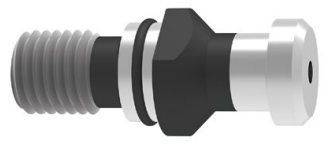
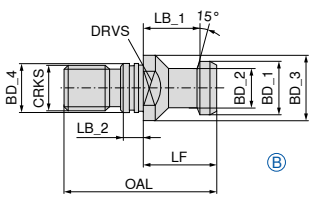
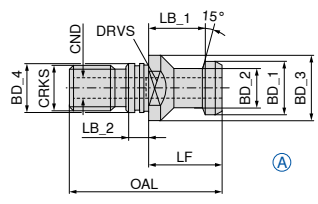
Others

→ 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

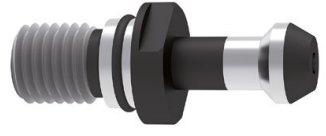
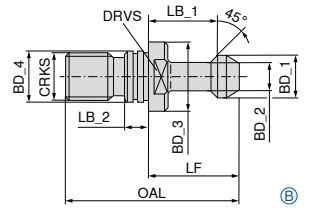
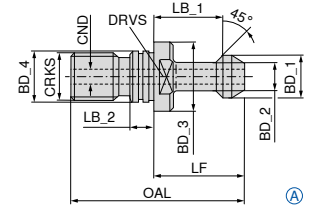


Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 475 ...		82 468 ...	
														£ Y8		£ Y8	
SK 30	13	9	17	13	M12	44	24	19	5	3.5	14	60	A			14.82	030
SK 40	19	14	23	17	M16	54	26	20	7	7.0	19	90	A			12.61	040
SK 50	28	21	36	25	M24	74	34	25	10	11.5	30	145	A			18.72	050
SK 30	13	9	17	13	M12	44	24	19	5		14	60	B	14.82	030		
SK 40	19	14	23	17	M16	54	26	20	7		19	90	B	12.61	040		
SK 50	28	21	36	25	M24	74	34	25	10		30	145	B	18.72	050		

Pull studs for tool holders according to ISO 7388-1

- ▲ Similar to BT 45°, but 3 mm shorter
- ▲ for Haas, Micron and Hurco machines

Scope of supply:
including O-Ring



Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	83 538 ...		83 535 ...	
														£ Y8		£ Y8	
SK 40	15	10	23	17	M16	57	32	25	5	4	19	90	A			18.25	040
SK 40	15	10	23	17	M16	57	32	25	5		19	90	B	21.66	040		



Spare parts

BD_4
17
25

83 476 ...	
£ Y8	
BT / SK 40	2.49 040
BT / SK 50	2.49 050

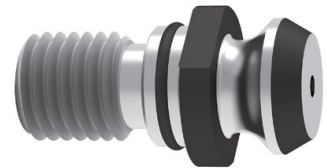
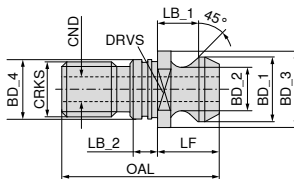
Pull studs for tool holders according to ISO 7388-1

▲ 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

£

Y8

12.61

040

19.78

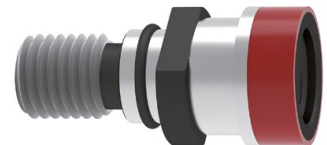
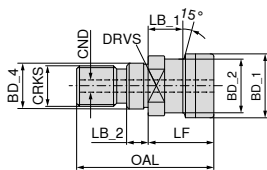
050

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 ...

£

Y8

20.63

23.53

040

050

with internal
thread

82 494 ...

£

Y8

20.63

23.53

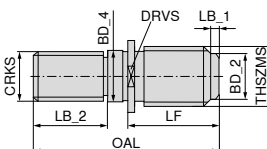
040

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

£

Y8

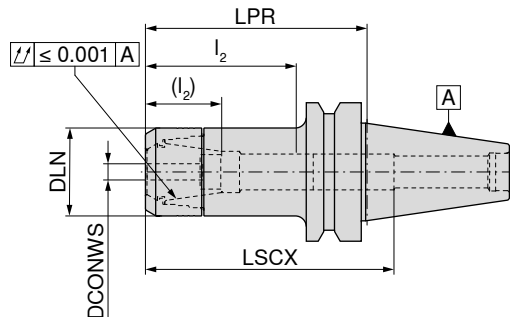
35.47

040

ER Precision Collet chuck – Centro-P

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

Scope of supply:

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

AD

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

84 524 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	£ Y8	
BT 30	1 - 10	50	30	73	28 - 44 (16 - 31)	426E (ER16)	207.90	001
BT 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	230.18	002
BT 30	1 - 10	100	30	123	28 - 44 (16 - 31)	426E (ER16)	267.24	003
BT 30	1 - 10	120	30	112	28 - 45 (14 - 31)	426E (ER16)	290.06	004
BT 30	2 - 16	60	40	77	35 - 59 (30 - 42)	430E (ER25)	237.65	160
BT 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	237.65	161
BT 30	2 - 16	90	40	87	38 - 56 (23 - 39)	430E (ER25)	290.06	162
BT 30	2 - 16	120	40	115	38 - 56 (23 - 39)	430E (ER25)	290.06	164
BT 30	2 - 20	60	50	69	42 - 52	470E (ER32)	182.01	207
BT 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	182.01	208
BT 30	2 - 20	90	50	94	42 - 62 (24 - 45)	470E (ER32)	199.28	209
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	146.62	210
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	173.74	310
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	236.58	410
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	255.06	510
BT 40	1 - 10	200	30	220	29 - 50 (29 - 36)	426E (ER16)	295.71	610
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	166.35	116
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	146.62	216
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	173.74	316
BT 40	2 - 16	105	40	100	35 - 60 (20 - 42)	430E (ER25)	250.34	168
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	255.06	416
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	273.54	516
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	314.19	616
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	166.35	120
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	146.62	220
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	173.74	320
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	255.06	420
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	273.54	520
BT 40	3 - 26	75	63	78	54 - 59	472E (ER40)	187.29	226
BT 40	3 - 26	105	63	93	55 - 71 (48 - 53)	472E (ER40)	242.74	326
BT 50	2 - 20	75	50	110	45 - 70 (42 - 53)	470E (ER32)	277.24	720
BT 50	2 - 20	105	50	140	45 - 63 (42 - 45)	470E (ER32)	328.99	820
BT 50	2 - 20	165	50	200	45 - 74 (42 - 56)	470E (ER32)	495.33	920
BT 50	3 - 26	75	63	100	48 - 58	472E (ER40)	295.71	726
BT 50	3 - 26	105	63	100	48 - 58	472E (ER40)	347.47	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

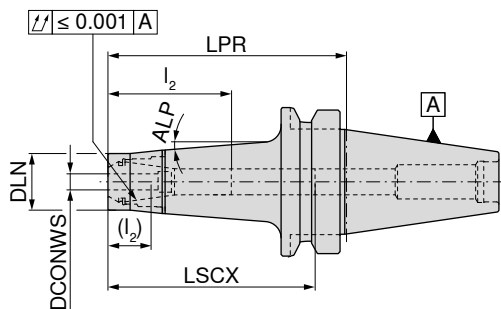
Spare parts, ER precision collet chuck – Centro-P

				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	£ Y8	£ Y8	£ Y8	£ Y8
426E (ER16)	76.42 011	56.75 001	M11x1 - SW6 47.40 341	M11x1 - SW6 31.75 337
430E (ER25)	85.18 013	63.06 003	M18x1,5 - SW6 33.34 432	M18x1,5 - SW6 23.78 431
470E (ER32)	91.08 015	69.36 005	M22x1,5 - SW6 28.16 402	M22x1,5 - SW6 20.51 401
472E (ER40)	124.56 017	100.91 007		M28x1,5 - SW6 28.75 400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

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

AD/B

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

84 517 ...

£

Y8

243.61

410

228.96

31000

305.35

510

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°
BT 40	1 - 10	135	24	165	28 - 48 (20 - 35)	426E (ER16)	
BT 40	1 - 10	160	24	180	28 - 48 (20 - 35)	426E (ER16)	4.5°

→ 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	£ Y8	£ Y8	£ Y8	£ Y8
426E (ER16)	93.82 033	79.26 031	M11x1 - SW6 47.40 341	M11x1 - SW6 31.75 337

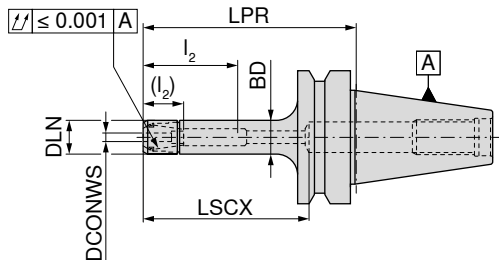
Accessories

					
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 ...

£
Y8231.17
255.94007
008AD/B
G 2,5 $n_{\max}$ 25000

84 508 ...

£
Y8243.45
251.25307
40600507
90600

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)		
BT 40	1 - 7	75	16	16	100	15 - 30 (8 - 21)	4008E (ER11)		
BT 40	1 - 7	90	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		
BT 40	1 - 7	120	16	16	140	15 - 30 (8 - 21)	4008E (ER11)		
BT 40	1 - 7	150	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		
BT 40	1 - 10	75	22	22	100	27 - 49 (16 - 32)	426E (ER16)		
BT 40	1 - 10	90	22	22	115	27 - 49 (16 - 32)	426E (ER16)		
BT 40	1 - 10	120	22	22	145	27 - 49 (16 - 32)	426E (ER16)		
BT 40	1 - 10	150	22	22	175	27 - 49 (16 - 32)	426E (ER16)		

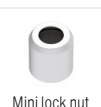


LSCX = Clamping depth without back stop screw for shanks
 I_2 = With back stop screw 1, Dimension in brackets (I_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer



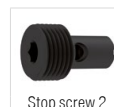
Mini lock nut IK

84 950 ...

£
Y877.19
035

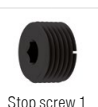
Mini lock nut

84 950 ...

£
Y879.26
63.32041
034

Stop screw 2

83 950 ...

£
Y845.18
47.40340
341

Stop screw 1

83 950 ...

£
Y830.09
31.75336
337Spare parts
for collet

4008E (ER11)									
426E (ER16)									

Accessories

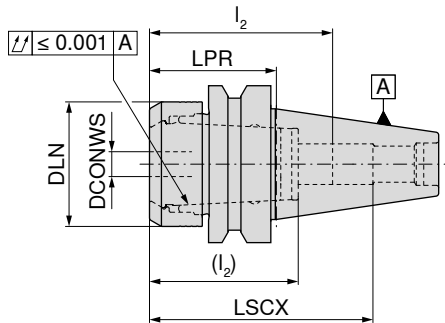
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 256–263, 266	→ 269	→ 274	→ 275	→ 275	→ 111–112	→ 273

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 ...

£

Y8

194.85

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 ...
£	£	£	£
Y8	Y8	Y8	Y8
75.33	71.45	28.16	20.51
020	009	402	401

M22x1,5 - SW6

M22x1,5 - SW6

Accessories

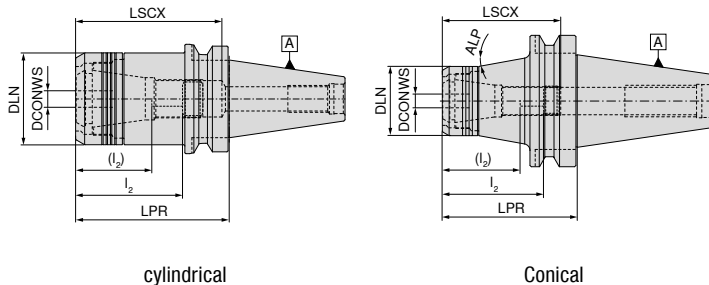
OZ Collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 267	→ 267	→ 275	→ 275	→ 111-112	→ 273

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 ...

£

Y8

337.16 12069

351.12 22069

NEW



AD

G 6,3 n_{max} 18000

conical

84 400 ...

£

Y8

522.69 12068

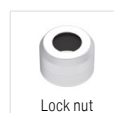
610.47 22068

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



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 ...

£

Y8

105.74 30100



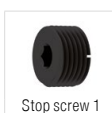
Stop screw 2

83 950 ...

£

Y8

28.16 402



Stop screw 1

83 950 ...

£

Y8

20.51 401

Spare parts

DCONWS

2 - 20

Accessories

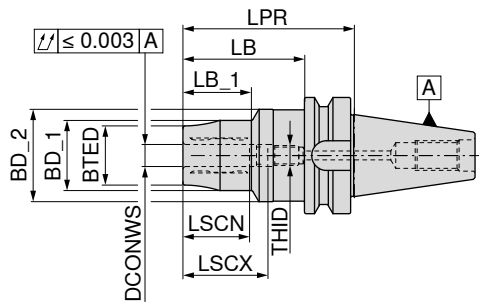
ER collet	Roll key	Roll key device	Pull studs	Others
→ 256–266	→ 275	→ 275	→ 111–112	→ 273

High pressure chuck, short version

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

Scope of supply:

Base body with backstop screw and pressure screw

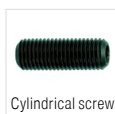


AD/B
G 2,5 n_{max} 25000

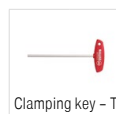
83 526 ...

	Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB_1	LSCX	LSCN	LB	THID		
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
short	BT 40	16	95	36	42	50	42	49	39	71	M12x1	£	
	BT 40	20	100	42	48	50	45	51	41	76	M16x1	Y8	
	BT 40	25	110	51	57	50	60	57	47	91	M16x1	943.79	116
	BT 40	32	120	57	63	50	65	61	51	101	M16x1	838.64	120
												943.79	125
												943.79	132

→ Min. clamping depth, Page 300



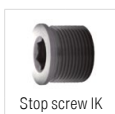
83 950 ...



80 397 ...



83 950 ...



83 950 ...

Spare parts for Article no.

		£			£			£			£	
		Y7			Y7			Y7			Y7	
83 526 116	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x14	9.08	429	M12x1x18	17.55	446
83 526 120	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M16x1x18,5	19.23	448
83 526 125	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M16x1x22	30.40	449
83 526 132	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x14	9.08	429	M16x1x25	37.83	450

Accessories



→ 271

→ 57-58

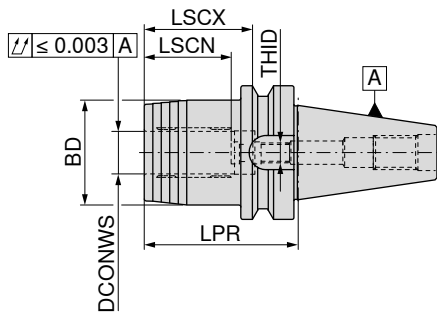
→ 273

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 ...

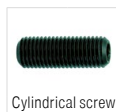
£

Y8

355.46 120

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

→ Min. clamping depth, Page 300



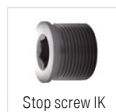
Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.

83 513 120	M5x5 - SW2,5	£ Y7 3.03	157	SW5	£ Y7 6.39	050	M10x1x14	£ Y7 9.08	429	M16x1x13,5 - SW8	£ Y7 22.87	424
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Accessories

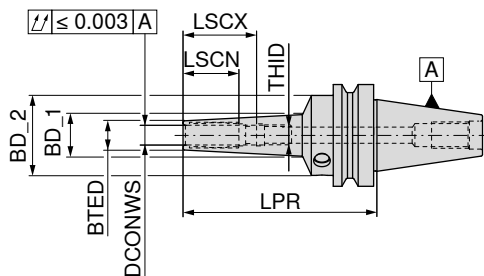
		
Reduction sleeve	Pull studs	Others
→ 271	→ 111–112	→ 273

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

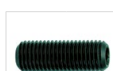


AD/B
G 2,5 n_{max} 25000

83 522 ...

	Adapter	DCONWS mm	LPR mm	BTD mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	£ Y8	
long	BT40	3	120	9	16.55	49.5	28	12	M3	695.36	103
	BT40	4	120	10	17.55	49.5	28	16	M3	695.36	104
	BT40	5	120	11	18.55	49.5	28	20	M3	695.36	105
	BT40	6	120	12	19.55	49.5	37	27	M5	593.02	106
	BT40	8	120	14	21.55	49.5	37	27	M6	593.02	108
	BT40	10	120	16	23.65	49.5	41	31	M8x1	593.02	110
	BT40	12	120	18	25.76	49.5	46	36	M10x1	593.02	112
	BT40	16	120	24	31.45	49.5	49	39	M12x1	852.66	116
	BT40	20	120	28	35.55	49.5	51	41	M16x1	852.66	120
	BT40	6	160	16	33.53	49.5	37	27	M5	892.50	206
	BT40	8	160	18	34.60	49.5	37	27	M6	892.50	208
	BT40	10	160	20	36.27	49.5	41	31	M8x1	892.50	210
	BT40	12	160	22	37.88	49.5	46	36	M10x1	892.50	212
	BT40	6	200	16	37.88	49.5	37	27	M5	1,002.98	306
	BT40	8	200	18	38.90	49.5	37	27	M6	1,002.98	308
	BT40	10	200	20	40.57	49.5	41	31	M8x1	1,002.98	310
BT40	12	200	22	42.18	49.5	46	36	M10x1	1,002.98	312	

→ Min. clamping depth, Page 300



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

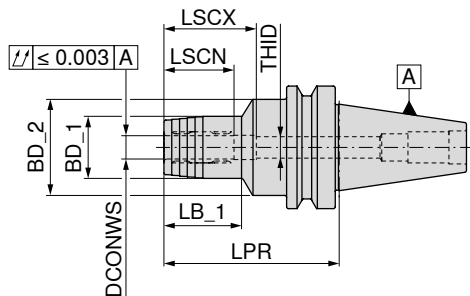
		83 950 ...		80 397 ...		83 950 ...		83 950 ...				
Spare parts for Article no.		£ Y7		£ Y7		£ Y7		£ Y7				
83 522 103	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172
83 522 104	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172
83 522 105	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172
83 522 106	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418
83 522 108	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419
83 522 110	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420
83 522 112	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M10x1x13,5 - SW5	19.83	421
83 522 116	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M12x1x13,5 - SW5	19.83	422
83 522 120	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M16x1x13,5 - SW8	22.87	424
83 522 206	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418
83 522 208	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419
83 522 210	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420
83 522 212	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M10x1x13,5 - SW5	19.83	421
83 522 306	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418
83 522 308	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419
83 522 310	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420
83 522 312	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M10x1x13,5 - SW5	19.83	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

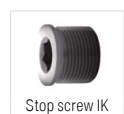
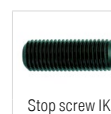


AD/B
G 2,5 n_{max} 25000

83 521 ...

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID	£ Y8	
BT 40	6	90	26	49.5	37	27	29	M5	690.96	106
BT 40	8	90	28	49.5	37	27	30	M6	690.96	108
BT 40	10	90	30	49.5	41	31	35	M8x1	690.96	110
BT 40	12	90	32	49.5	46	36	40	M10x1	604.01	112
BT 40	16	90	38	49.5	49	39	45	M12x1	690.96	116
BT 40	20	90	42	49.5	51	41	47	M16x1	604.01	120
BT 40	25	90	55	52.0	57	47	50	M16x1	690.96	125
BT 40	32	90	63	62.0	61	51	48	M16x1	690.96	132
BT 50	6	90	26	49.5	37	27	29	M5	967.02	306
BT 50	8	90	28	49.5	37	27	30	M6	967.02	308
BT 50	10	90	30	49.5	41	31	34	M8x1	967.02	310
BT 50	12	90	32	49.5	46	36	34	M10x1	878.56	312
BT 50	16	90	38	49.5	49	39	35	M12x1	967.02	316
BT 50	20	90	42	49.5	51	41	35	M16x1	878.56	320
BT 50	25	110	55	63.0	57	47	48	M16x1	967.02	325
BT 50	32	110	63	70.0	61	51	50	M16x1	967.02	332

→ Min. clamping depth, Page 300



		83 950 ...		83 950 ...		83 950 ...			
Spare parts		£		£		£			
DCONWS		Y7		Y7		Y7			
6	M8x1x10	13.73	439	M6x14 - SW2	19.83	417	M5x12,5 - SW2,5	19.83	418
8	M8x1x10	13.73	439				M6x12,5 - SW3	19.83	419
10	M10x1x12	13.73	440				M8x1x13,5 - SW3	19.83	420
12	M10x1x12	13.73	440				M10x1x13,5 - SW5	19.83	421
16	M10x1x12	13.73	440				M12x1x13,5 - SW5	19.83	422
20 - 32	M10x1x12	13.73	440				M16x1x13,5 - SW8	22.87	424

Accessories

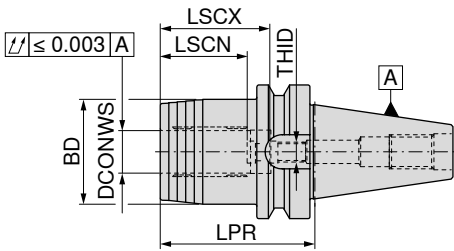


Hydraulic chuck MAS BT, short and stable version

- ▲ 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 ...

£

Y8

469.78

120

559.79

332

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

→ Min. clamping depth, Page 300

Spare parts DCONWS 20 - 32



Pressure screw

83 950 ...

£

Y7

13.73

440



Stop screw IK

83 950 ...

£

Y7

22.87

424

M10x1x12

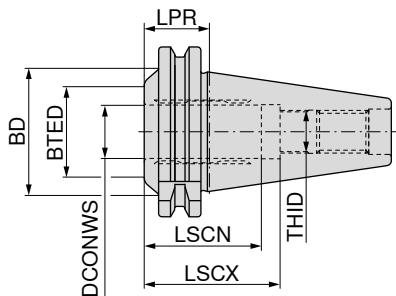
M16x1x13,5 - SW8

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 ...

£

Y8

549.50 120

→ 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 ...

£

Y7

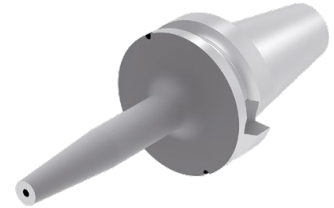
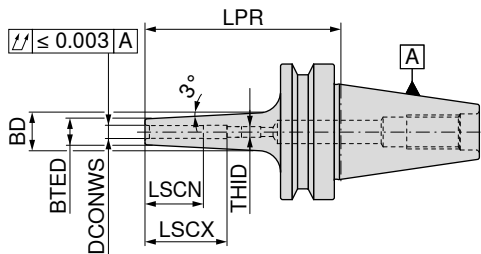
22.87 424

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

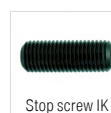


AD/B
G 2,5 n_{max} 25000

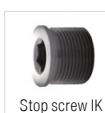
84 323 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	£ Y8	
short	BT 40	3	90	9	15	28	12	M6	559.98	103
	BT 40	4	90	10	16	28	16	M6	544.85	104
	BT 40	5	90	11	17	30	20	M6	544.85	105
	BT 40	6	90	12	18	36	26	M5	484.29	106
	BT 40	8	90	14	20	36	26	M6	484.29	108
	BT 40	10	90	16	22	41	31	M8x1	484.29	110
	BT 40	12	90	18	24	47	37	M10x1	484.29	112
	BT 40	14	90	20	26	47	37	M10x1	484.29	114
	BT 40	16	90	22	28	50	40	M12x1	484.29	116
	BT 40	18	90	24	30	50	40	M12x1	484.29	118
	BT 40	20	90	26	32	52	42	M16x1	484.29	120
long	BT 40	3	120	9	16	12	12		624.28	203
	BT 40	4	120	10	17	16	16		612.94	204
	BT 40	5	120	11	18	20	20		612.94	205
	BT 40	6	120	12	21	36	26	M5	548.63	206
	BT 40	8	120	14	23	36	26	M6	548.63	208
	BT 40	10	120	16	25	41	31	M8x1	548.63	210
	BT 40	12	120	18	27	47	37	M10x1	548.63	212
	BT 40	14	120	20	29	47	37	M10x1	548.63	214
	BT 40	16	120	22	31	50	40	M12x1	548.63	216
	BT 40	18	120	24	33	50	40	M12x1	548.63	218
	BT 40	20	120	26	35	52	42	M16x1	548.63	220
extra-long	BT 40	3	160	9	19	12	12		703.74	303
	BT 40	4	160	10	20	16	16		692.39	304
	BT 40	5	160	11	21	20	20		692.39	305
	BT 40	6	160	12	24	36	26	M5	628.08	306
	BT 40	8	160	14	26	36	26	M6	628.08	308
	BT 40	10	160	16	28	41	31	M8x1	628.08	310
	BT 40	12	160	18	30	47	37	M10x1	628.08	312
	BT 40	14	160	20	32	47	37	M10x1	628.08	314
	BT 40	16	160	22	34	50	40	M12x1	628.08	316
	BT 40	18	160	24	36	50	40	M12x1	628.08	318
	BT 40	20	160	26	38	52	42	M16x1	628.08	320

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK

Spare parts
DCONWS

	£ Y7	
3 - 5		
6		
8		
10		
12 - 14		
16 - 18		
20		
	M6x14 - SW2	19.83 417

83 950 ...

£

Y7

19.83 417

83 950 ...

£

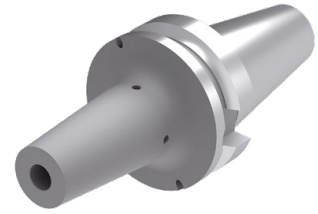
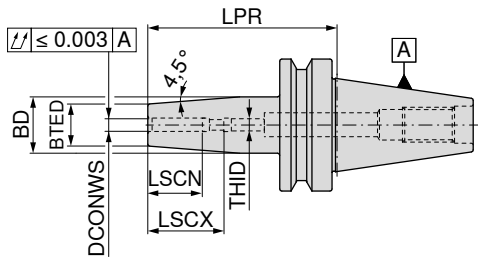
Y7

M5x12,5 - SW2,5	19.83	418
M6x12,5 - SW3	19.83	419
M8x1x13,5 - SW3	19.83	420
M10x1x13,5 - SW5	19.83	421
M12x1x13,5 - SW5	19.83	422
M16x1x13,5 - SW8	22.87	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

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	AD		AD/B	
									£ Y8		£ Y8	
short	BT 30	3	85	10	17	28	12	M6	563.76	003		
	BT 30	4	85	15	22	28	16	M6	544.85	004		
	BT 30	5	85	15	22	30	20	M6	544.85	005		
	BT 30	6	85	21	27	36	26	M5	484.29	006		
	BT 30	8	85	21	27	36	26	M6	484.29	008		
	BT 30	10	85	24	32	41	31	M8x1	484.29	010		
	BT 30	12	85	24	32	47	37	M10x1	484.29	012		
	BT 30	14	85	27	34	47	37	M10x1	484.29	014		
	BT 30	16	85	27	34	50	40	M12x1	484.29	016		
	BT 30	18	85	33	42	50	40	M12x1	484.29	018		
	BT 30	20	85	33	42	52	42	M16x1	484.29	020		
	BT 40	3	90	10	17	28	12	M6			266.36	103
	BT 40	4	90	15	22	28	16	M6			258.88	104
	BT 40	5	90	15	22	30	20	M6			258.88	105
	BT 40	6	90	21	27	36	26	M5			227.83	106
	BT 40	8	90	21	27	36	26	M6			227.83	108
	BT 40	10	90	24	32	41	31	M8x1			227.83	110
	BT 40	12	90	24	32	47	37	M10x1			227.83	112
	BT 40	14	90	27	34	47	37	M10x1			227.83	114
	BT 40	16	90	27	34	50	40	M12x1			227.83	116
	BT 40	18	90	33	42	50	40	M12x1			227.83	118
	BT 40	20	90	33	42	52	42	M16x1			227.83	120
	BT 40	25	100	44	53	58	48	M16x1			227.83	125
long	BT 40	3	120	10	20	12	12				298.95	203
	BT 40	4	120	15	22	16	16				291.46	204
	BT 40	5	120	15	22	20	20				291.46	205
	BT 40	6	120	21	27	36	26	M5			260.42	206
	BT 40	8	120	21	27	36	26	M6			260.42	208
	BT 40	10	120	24	32	41	31	M8x1			260.42	210
	BT 40	12	120	24	32	47	37	M10x1			260.42	212
	BT 40	14	120	27	34	47	37	M10x1			260.42	214
	BT 40	16	120	27	34	50	40	M12x1			260.42	216
	BT 40	18	120	33	42	50	40	M12x1			260.42	218
	BT 40	20	120	33	42	52	42	M16x1			260.42	220
	BT 40	25	120	44	53	58	48	M16x1			260.42	225
extra-long	BT 40	3	160	10	20	12	12				338.87	303
	BT 40	4	160	15	22	16	16				331.38	304
	BT 40	5	160	15	22	20	20				331.38	305
	BT 40	6	160	21	27	36	26	M5			300.36	306
	BT 40	8	160	21	27	36	26	M6			300.36	308
	BT 40	10	160	24	32	41	31	M8x1			300.36	310
	BT 40	12	160	24	32	47	37	M10x1			300.36	312
	BT 40	14	160	27	34	47	37	M10x1			300.36	314
	BT 40	16	160	27	34	50	40	M12x1			300.36	316
	BT 40	18	160	33	42	50	40	M12x1			300.36	318
	BT 40	20	160	33	42	52	42	M16x1			300.36	320
	BT 40	25	160	44	53	58	48	M16x1			300.36	325

→ Min. clamping depth, Page 300

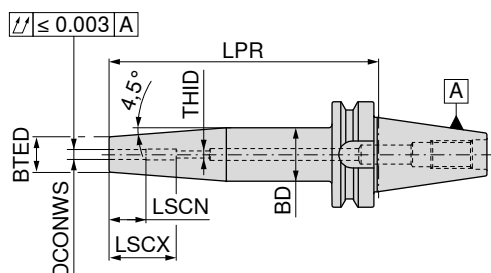
Spare parts heat shrink adapter 4.5°

		 Stop screw IK		 Stop screw IK	
		83 950 ...		83 950 ...	
Spare parts		£		£	
DCONWS		Y7		Y7	
3 - 5	M6x14 - SW2	19.83	417		
6				M5x12,5 - SW2,5	19.83 418
8				M6x12,5 - SW3	19.83 419
10				M8x1x13,5 - SW3	19.83 420
12 - 14				M10x1x13,5 - SW5	19.83 421
16 - 18				M12x1x13,5 - SW5	19.83 422
20 - 25				M16x1x13,5 - SW8	22.87 424

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 ...

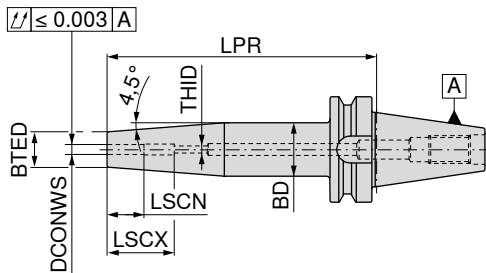
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
									£ Y8	
short	BT 40	3	90	11	15				241.73	10369
	BT 40	4	90	11	15				231.90	10469
	BT 40	5	90	11	15				231.90	10569
	BT 40	6	90	21	27	36	26	M5	208.09	10669
	BT 40	8	90	21	27	36	26	M6	208.09	10869
	BT 40	10	90	24	34	41	31	M8x1	208.09	11069
	BT 40	12	90	24	34	46	36	M10x1	208.09	11269
	BT 40	14	90	27	34	46	36	M10x1	208.09	11469
	BT 40	16	90	27	34	49	39	M12x1	208.09	11669
	BT 40	18	90	33	42	49	39	M12x1	208.09	11869
	BT 40	20	90	33	42	51	41	M16x1	208.09	12069
	BT 40	25	100	44	53	57	47	M16x1	208.09	12569
	BT 50	6	100	21	27	36	26	M5	221.45	10668
	BT 50	8	100	21	27	36	26	M6	221.45	10868
long	BT 50	10	100	24	32	41	31	M8x1	221.45	11068
	BT 50	12	100	24	32	47	37	M10x1	221.45	11268
	BT 50	14	100	27	34	47	37	M10x1	221.45	11468
	BT 50	16	100	27	34	50	40	M12x1	221.45	11668
	BT 50	18	100	33	42	50	40	M12x1	221.45	11868
	BT 50	20	100	33	42	52	42	M16x1	221.45	12068
	BT 50	25	100	44	53	58	48	M16x1	221.45	12568
	BT 50	32	100	44	53	62	52	M16x1	221.45	13268
	BT 50	6	120	21	27	36	26	M5	243.18	20668
	BT 50	8	120	21	27	36	26	M6	243.18	20868
	BT 50	10	120	24	32	41	31	M8x1	243.18	21068
	BT 50	12	120	24	32	47	37	M10x1	243.18	21268
	BT 50	14	120	27	34	47	37	M10x1	243.18	21468
	BT 50	16	120	27	34	50	40	M12x1	243.18	21668
	BT 50	18	120	33	42	50	40	M12x1	243.18	21868
	BT 50	20	120	33	42	52	42	M16x1	243.18	22068
	BT 50	25	120	44	53	58	48	M16x1	243.18	22568
	BT 50	32	120	44	53	62	52	M16x1	243.18	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 ...

£
Y8

	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	269.51	30669
	BT 40	8	160	21	27	36	26	M6	269.51	30869
	BT 40	10	160	24	34	41	31	M8x1	269.51	31069
	BT 40	12	160	24	34	46	36	M10x1	269.51	31269
	BT 40	14	160	27	34	46	36	M10x1	269.51	31469
	BT 40	16	160	27	34	49	39	M12x1	269.51	31669
	BT 40	18	160	33	42	49	39	M12x1	269.51	31869
	BT 40	20	160	33	42	51	41	M16x1	269.51	32069
	BT 40	25	160	44	53	57	47	M16x1	269.51	32569
	BT 50	6	160	21	27	36	26	M5	270.11	30668
	BT 50	8	160	21	27	36	26	M6	270.11	30868
	BT 50	10	160	24	32	41	31	M8x1	270.11	31068
	BT 50	12	160	24	32	47	37	M10x1	270.11	31268
	BT 50	14	160	27	34	47	37	M10x1	270.11	31468
	BT 50	16	160	27	34	50	40	M12x1	270.11	31668
	BT 50	18	160	33	42	50	40	M12x1	270.11	31868
	BT 50	20	160	33	42	52	42	M16x1	270.11	32068
	BT 50	25	160	44	53	58	48	M16x1	270.11	32568
	BT 50	32	160	44	53	62	52	M16x1	270.11	33268

→ Min. clamping depth, Page 300



Stop screw IK

82 950 ...

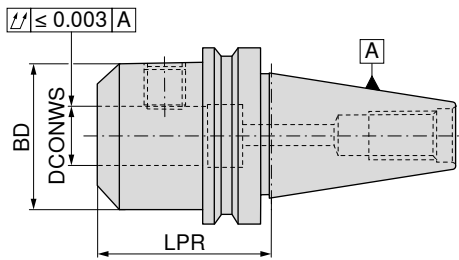
£
Y8

Spare parts
DCONWS

6	M5x16 - SW2,5	3.99	30000
8	M6x16 - SW3	4.25	30100
10	M8x16 - SW4	4.52	30200
12 - 14	M10x16 - SW5	4.78	30300
16 - 18	M12x16 - SW6	5.05	30400
20 - 32	M16x16 - SW8	5.31	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 ...

£
Y8

88.26 00600
86.07 00800
86.07 01000
86.07 01200
86.07 01400
86.07 01600
86.07 01800
86.07 02000

82 503 ...

£
Y8

184.74 416
184.74 420
196.75 425
184.25 432



Grubscrew

62 950 ...

£
W7

Spare parts

DCONWS_{H4}

6	M6x10	0.91	006
8	M8x10	0.91	008
10	M10x12	1.75	010
12 - 14	M12x16	1.39	012
16 - 18	M14x16	1.71	016
20	M16x16	1.83	020
25	M18x2x20	3.53	025
32	M20x2x20	3.69	032

Accessories



Pull studs



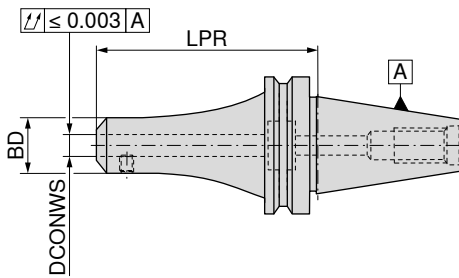
Others

→ 111-112

→ 273

Cylindrical shank adapter (Weldon)

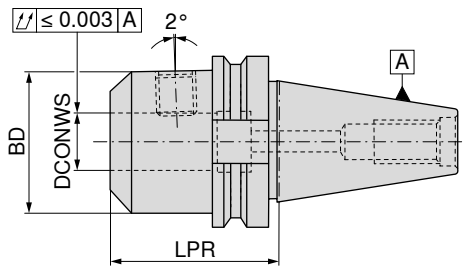
- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
▲ also available with Balluff chip **on request**

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 ...	
					£ Y8		£ Y8	
short	BT 40	6	50	25	88.28	106	126.13	106
	BT 40	8	50	28	88.28	108	126.13	108
	BT 40	10	63	35	88.28	110	126.13	110
	BT 40	12	63	42	88.28	112	126.13	112
	BT 40	14	63	44	88.28	114	126.13	114
	BT 40	16	63	48	88.28	116	126.13	116
	BT 40	18	63	50	88.28	118	126.13	118
	BT 40	20	63	52	88.28	120	126.13	120
	BT 40	25	100	65	88.28	125	126.13	125
	BT 40	32	100	72	100.91	132	126.13	13200
	BT 40	40	120	90	88.28	14000		
	BT 50	6	63	25	119.05	30600	190.33	30600
	BT 50	8	63	28	119.05	30800	190.33	30800
	BT 50	10	80	35	114.59	31000	175.29	31000
	BT 50	12	80	42	114.59	31200	175.29	31200
	BT 50	14	80	44	114.59	31400	175.29	31400
	BT 50	16	80	48	114.59	31600	191.92	31600
	BT 50	18	80	50	114.59	31800	191.92	31800
	BT 50	20	80	52	114.59	32000	191.92	32000
	BT 50	25	100	65	126.12	32500	205.65	32500
	BT 50	32	105	72	127.41	33200	216.52	33200
	BT 50	40	120	90	133.06	34000		
long	BT 40	6	100	25	94.58	506		
	BT 40	8	100	28	94.58	508		
	BT 40	10	100	35	94.58	510		
	BT 40	12	100	42	94.58	512		
	BT 40	14	100	44	94.58	514		
	BT 40	16	100	48	129.64	516		
	BT 40	18	100	50	94.58	518		
	BT 40	20	100	52	129.64	520		
	BT 50	6	100	25	174.03	70600		
	BT 50	8	100	28	174.03	70800		
	BT 50	10	100	35	166.50	71000		
	BT 50	12	100	42	166.50	71200		
	BT 50	14	100	44	166.50	71400		
	BT 50	16	100	48	166.96	71600		
	BT 50	18	100	50	166.96	71800		
	BT 50	20	100	52	166.96	72000		
	BT 50	25	120	65	178.64	72500		
	BT 40	6	160	25	100.91	606		
	BT 40	8	160	28	100.91	608		
	BT 40	10	160	35	100.91	610		
	BT 40	12	160	42	100.91	612		
extra-long	BT 40	14	160	44	100.91	614		
	BT 40	16	160	48	100.91	616		
	BT 40	18	160	50	100.91	618		
	BT 40	20	160	52	100.91	620		
	BT 40	25	160	65	100.91	625		
	BT 50	6	160	25	191.33	80600		
	BT 50	8	160	28	191.33	80800		
	BT 50	10	160	35	183.57	81000		
	BT 50	12	160	35	183.57	81200		
	BT 50	14	160	44	183.57	81400		
	BT 50	16	160	48	184.52	81600		
	BT 50	18	160	50	184.52	81800		
	BT 50	20	160	52	184.52	82000		
	BT 50	25	160	65	195.70	82500		
	BT 50	32	160	72	199.11	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**

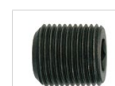


AD/B
G 2,5 n_{max} 18000

82 507 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
					£ Y8	
short	BT 40	6	50	25	132.35	106
	BT 40	8	50	28	132.35	108
	BT 40	10	63	35	122.58	110
	BT 40	12	63	42	122.58	112
	BT 40	14	63	44	122.58	114
	BT 40	16	63	48	135.05	116
	BT 40	18	63	50	135.05	118
	BT 40	20	63	52	135.05	120
	BT 40	25	100	65	144.76	12500
	BT 40	32	100	72	157.72	13200
	BT 40	40	120	80	140.91	14000
	BT 50	6	63	25	193.50	30600
	BT 50	8	63	28	193.50	30800
	BT 50	10	80	35	184.57	31000
	BT 50	12	80	42	184.57	31200
	BT 50	14	80	44	184.57	31400
	BT 50	16	80	48	185.69	31600
	BT 50	18	80	50	185.69	31800
	BT 50	20	80	52	185.69	32000
	BT 50	25	100	65	202.94	32500
	BT 50	32	105	72	206.60	33200
medium length	BT 40	6	130	25	141.39	206
	BT 40	8	130	28	141.39	208
	BT 40	10	130	35	132.32	210
	BT 40	12	130	42	132.32	212
	BT 40	16	130	48	142.26	216
	BT 40	20	130	52	142.26	220
	BT 40	25	130	65	169.96	225
	BT 50	6	130	25	222.25	90600
	BT 50	8	130	28	222.25	90800
	BT 50	10	130	35	210.24	91000
	BT 50	12	130	42	210.24	91200
	BT 50	16	130	48	211.11	91600
	BT 50	20	130	52	211.11	92000
	BT 50	25	130	65	223.14	92500
	BT 50	32	130	72	225.57	93200

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



Grubscrew



Stop screw IK

62 950 ...

83 950 ...

Spare parts DCONWS

		£ W7			£ Y8	
6	M6x10	0.91	006	M5x35	3.19	033
8	M8x10	0.91	008	M6x35	2.16	034
10	M10x12	1.75	010	M8x35	2.30	035
12 - 14	M12x16	1.39	012	M10x35	3.14	036
16 - 18	M14x16	1.71	016	M12x40	2.80	037
20	M16x16	1.83	020	M16x45	2.71	272
25	M18x2x20	3.53	025	M20x35	4.80	290
32	M20x2x20	3.69	032	M20x35	4.80	290
40	M20x2x20	3.69	032			

Accessories



Pull studs

→ 111–112

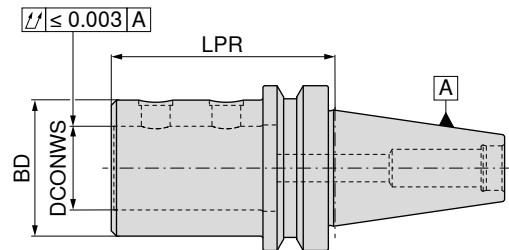


Others

→ 273

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

▲ also available with Balluff chip on request



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

10 841 ...

Adapter	DCONWS mm	LPR mm	BD mm	£	
BT 40	20	75	40	2E/45	
BT 40	25	80	45	123.43	120
BT 40	32	85	52	123.43	125
				123.43	132
BT 50	20	85	40	156.83	220
BT 50	25	90	45	156.83	225
BT 50	32	95	52	156.83	232
BT 50	40	105	65	156.83	240
BT 50	50	113	75	156.83	250

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



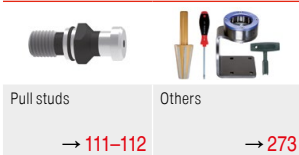
Grubscrew

10 950 ...

Spare parts

DCONWS	£	
20	2A/28	
25 - 32	3.66	M10x1x10 001
40 - 50	3.66	M12x1x10 002
	3.66	M16x1x12 003

Accessories



Pull studs

Others

→ 111-112

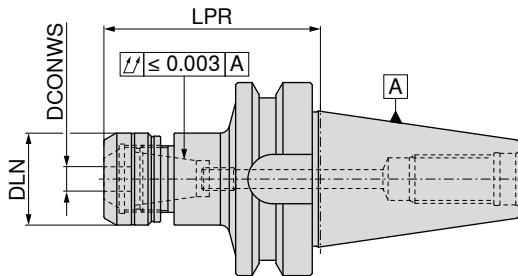
→ 273

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 ...

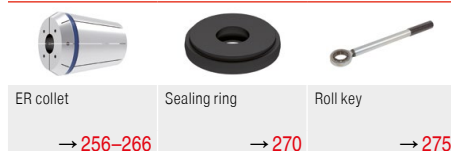
Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	£ Y8	
BT 40	1 - 10	70	30	426E (ER16)	40 / 2-70	179.07	11069
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	257.95	21069
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	179.07	11669
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	257.95	21669
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	179.07	12069
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	257.95	22069
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	337.35	11668
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	418.95	21668
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	337.35	12068
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	418.95	22068



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

	Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
	82 950 ...	82 950 ...	82 950 ...	82 950 ...
	£ Y8	£ Y8	£ Y8	£ Y8
Spare parts for collet				
426E (ER16)	68.07 11000	64.14 01000		M8X3,0 6.41 00100
430E (ER25)	68.07 11600	64.14 01600	M18x1,5 8.72 00200	M8x8 6.41 00300
470E (ER32)	68.07 12000	64.14 02000	M18x1,5 8.72 00200	M8x8 6.41 00300

Accessories



→ 256-266

→ 270

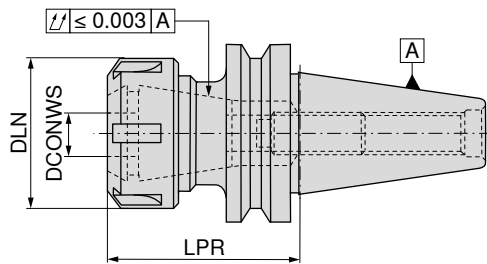
→ 275

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)	Y8		
	BT 30	2 - 20	70	50	136	470E (ER32)	112.42	01000	
							112.42	01600	
							112.42	02000	
	BT 40	1 - 10	60	32	56	426E (ER16)			88.28 110
	BT 40	1 - 16	70	42	104	430E (ER25)			92.57 116
	BT 40	2 - 20	70	50	136	470E (ER32)			92.57 120
	BT 40	3 - 26	70	63	176	472E (ER40)			97.71 126
	BT 50	1 - 10	75	32	56	426E (ER16)	186.69	31000	
	BT 50	1 - 16	75	42	104	430E (ER25)	167.33	31600	
	BT 50	2 - 20	75	50	136	470E (ER32)	150.01	32000	
	BT 50	4 - 26	75	63	176	472E (ER40)	153.08	32600	
	BT 30	1 - 10	100	32	56	426E (ER16)	132.18	21000	
	BT 30	1 - 16	100	42	104	430E (ER25)	132.18	21600	
long	BT 40	1 - 10	120	32	56	426E (ER16)			100.91 410
	BT 40	1 - 16	120	42	104	430E (ER25)			100.91 416
	BT 40	2 - 20	120	50	136	470E (ER32)			100.91 420
	BT 40	3 - 26	100	63	176	472E (ER40)			143.81 42600
	BT 50	1 - 10	100	32	56	426E (ER16)	189.34	71000	
	BT 50	1 - 16	100	42	104	430E (ER25)	175.22	71600	
	BT 50	2 - 20	100	50	136	470E (ER32)	187.93	72000	
	BT 50	3 - 26	100	63	176	472E (ER40)	197.68	72600	
	BT 40	1 - 10	160	32	56	426E (ER16)			154.72 51000
	BT 40	1 - 16	160	42	104	430E (ER25)			192.79 51600
	BT 40	2 - 20	160	50	136	470E (ER32)			209.27 52000
	BT 40	3 - 26	160	63	176	472E (ER40)			161.24 52600
extra-long	BT 50	1 - 16	160	42	104	430E (ER25)	194.40	81600	
	BT 50	2 - 20	160	50	136	470E (ER32)	214.76	82000	

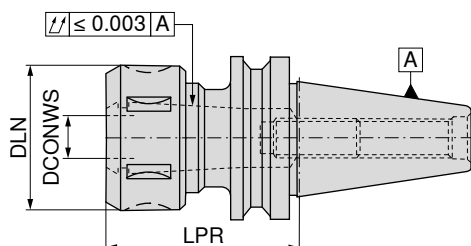
Spare parts
for collet

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 ...
£	£	£	£
Y8	W7	Y8	Y8
68.61 054	21.20 054	23.31 116	
79.92 055	22.08 055	23.31 125	2.80 010
79.92 055	22.08 055	23.31 125	2.80 010
85.48 056	22.64 056	33.95 132	2.80 010
85.48 056	22.64 056	33.95 132	2.80 010
102.87 057	23.45 057	38.47 140	2.71 011

OZ-Collet chuck

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



AD
G 2,5 n_{max} 18000



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

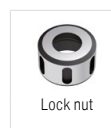
	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	BT 30	2 - 16	60	43	24 - 104	415E / 421E	£ Y8	
	BT 30	2 - 25	80	60	24 - 176	459E / 462E	119.12 125.29	02500 03500
	BT 40	2 - 16	70	43	80 - 90	415E / 421E		
	BT 40	2 - 25	70	60	90 - 100	459E / 462E		140.12 147.18
								116 125
long	BT 50	2 - 25	90	60	90 - 100	459E / 462E	182.75 203.69	32500 33200
	BT 50	4 - 32	100	72	110 - 120	460E / 467E		
	BT 40	2 - 16	120	43	80 - 90	415E / 421E		
	BT 40	2 - 25	120	60	90 - 100	459E / 462E		199.58 208.27
								416 425
	BT 50	2 - 25	120	60	90 - 100	459E / 462E	233.97 256.81	72500 73200
	BT 50	4 - 32	120	72	110 - 120	460E / 467E		

Spare parts for collet

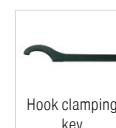
		£ W7		£ Y8		£ Y8	
415E / 421E	M33x1,5	37.10	050	23.31	116	2.80	010
459E / 462E	M48x2	38.72	051	18.68	125	2.80	010
460E / 467E	M60x2,5	63.47	052	27.43	132	2.71	011

Accessories

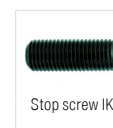
OZ Collet	Pull studs	Others
→ 268	→ 111-112	→ 273



62 950 ...



83 354 ...



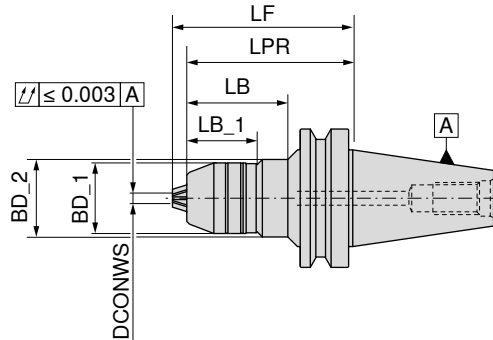
83 950 ...

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 ...
£ Y8
443.50 413
367.52 416
522.96 516



AD
G 6,3 n_{max} 10000

84 510 ...
£ Y8
402.37 413
395.13 416
550.55 516

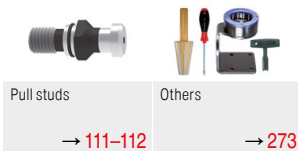


AD/B
G 6,3 n_{max} 10000

84 511 ...
£ Y8
531.96 413

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

Accessories



Pull studs

Others

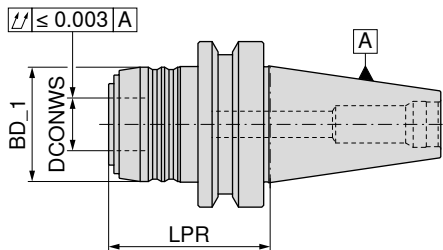
→ 111-112

→ 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

£

Y8

286.31 012

371.40 020

311.02 112

481.38 120

Accessories



Pull studs

→ 111-112



Others

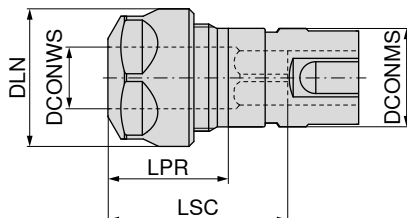
→ 273

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
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32

£

Y8

195.17 012

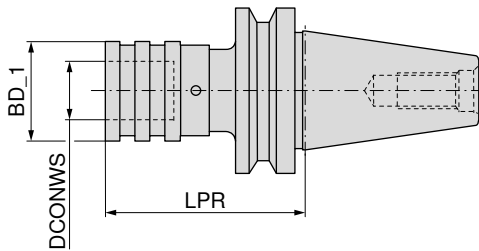
227.34 020

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.	£ W7			£ Y8			£ W7			£ Y8		
83 608 012	M22x1,5 - SW25	26.65	044	M22x1,5	68.61	054				23.31	116	
83 608 020				M32x1,5	79.92	055	M32x1,5	22.08	055	23.31	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		
BT 30	M6 - M20	02	96	55	31	15		
BT 40	M3 - M12	01	68	38	19	9		
BT 40	M6 - M20	02	93	55	31	15		
BT 50	M3 - M12	01	80	38	19	9		
BT 50	M6 - M20	02	102	55	31	15		

£

Y8

486.86 312

610.56 320

390.64 412

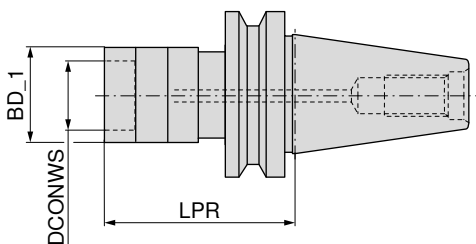
405.28 420

654.64 512

753.64 520

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		
BT 40	M6 - M20	02	90	50	31		
BT 50	M3 - M12	01	78	33	19		
BT 50	M6 - M20	02	101	50	31		

£

Y8

354.94 412

363.32 420

473.14 512

473.14 520

Accessories



Collet

→ 277-281



Pull studs

→ 111-112



Others

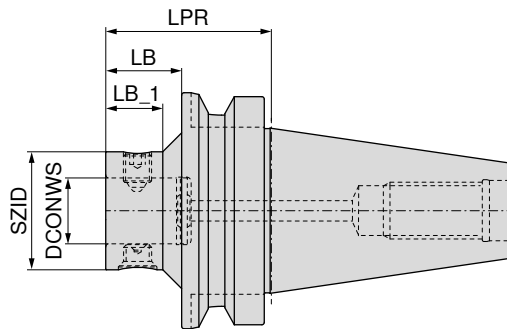
→ 273

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



AD



AD/B

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	84 202 ...		84 212 ...	
							£ 3E		£ 3E	
BT 40	A55 00120	ABS 25	13	60	33	25	713.35	04090		
BT 40	A55 00130	ABS 32	16	60	33		713.35	04089		
BT 40	A55 00140	ABS 40	20	60	33		713.35	04088		
BT 40	A55 00150	ABS 50	28	60	33		332.57	04097		
BT 40	A55 55150	ABS 50	28	60	33				792.18	04097
BT 40	A55 00160	ABS 63	34	70			724.00	04096		
BT 40	A55 55160	ABS 63	34	70					885.75	04096
BT 50	A55 00330	ABS 32	16	70	32	24	815.52	05089		
BT 50	A55 00340	ABS 40	20	70	32	24	815.52	05088		
BT 50	A55 00350	ABS 50	28	70	32	24	380.19	05097		
BT 50	A55 55350	ABS 50	28	70	32	24			926.29	05097
BT 50	A55 55360	ABS 63	34	80	42	37			1,000.82	05096
BT 50	A55 00360	ABS 63	34	80	42	37	826.17	05096		
BT 50	A55 55370	ABS 80	46	100	62				1,032.76	05092
BT 50	A55 00370	ABS 80	46	100	62		841.11	05092		
BT 50	A55 55380	ABS 100	56	110					1,056.10	05091
BT 50	A55 00380	ABS 100	56	110			930.59	05091		

Conversion kit – Cooling agent supply



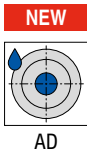
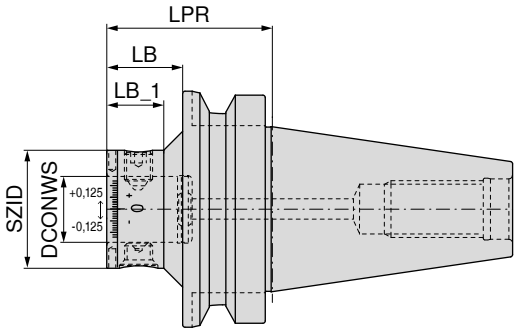
		84 950 ...	
for		£ W7	
4 mm	SK 40	5.75	23200
6 mm	SK 50	5.75	23400

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
BT 40	A55 56150	ABS 50	28	60	33	
BT 40	A55 56160	ABS 63	34	70		
BT 50	A55 56350	ABS 50	28	70	32	24
BT 50	A55 56360	ABS 63	34	80	42	37

84 205 ...
£
W4
646.22
04096
739.89
05096

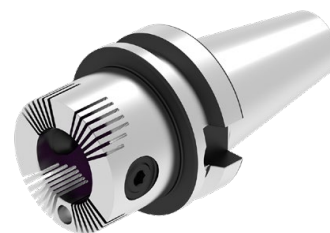
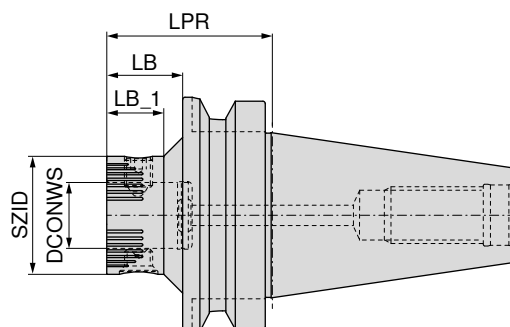
84 205 ...
£
W4
502.04
04097
563.17
05097

Torsional vibration dampers with ABS Connection

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

Scope of supply:

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



NEW



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		£ 714.77	04097
BT 40	A55 02160	ABS 63	34	70			2,005.94	04096
BT 50	A55 02350	ABS 50	28	70	32	24	864.62	05097
BT 50	A55 02360	ABS 63	34	80	42	37	667.22	05096

Clamping screw	Set	Taper screw
		
84 950 ...	84 950 ...	84 950 ...
£ XX	£ XX	£ XX
8.63 20300	19.57 99800	10.97 20400
8.22 25500	18.45 99400	10.42 27300

Spare parts

SZID

ABS 50

ABS 63

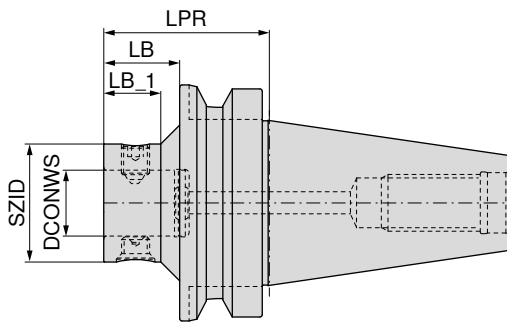
Accessories

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

Adapter with ABS Connection – BT-FC

▲ with face contact

▲ also available with Balluff chip on request



84 214 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	£ 3E	
BT-FC 40	A55 57121	ABS 25	13	60	33	25	1,175.48	04090
BT-FC 40	A55 57131	ABS 32	16	60	33		1,175.48	04089
BT-FC 40	A55 57141	ABS 40	20	60	33		1,175.48	04088
BT-FC 40	A55 57151	ABS 50	28	60	33		1,175.48	04097
BT-FC 40	A55 57161	ABS 63	34	70			1,209.46	04096
BT-FC 50	A55 57331	ABS 32	16	70		24	1,362.82	05089
BT-FC 50	A55 57341	ABS 40	20	70		24	1,362.82	05088
BT-FC 50	A55 57351	ABS 50	28	70		24	1,362.82	05097
BT-FC 50	A55 57361	ABS 63	34	80		37	1,386.16	05096
BT-FC 50	A55 57371	ABS 80	46	100	60		1,443.70	05092
BT-FC 50	A55 57381	ABS 100	56	110			1,550.17	05091

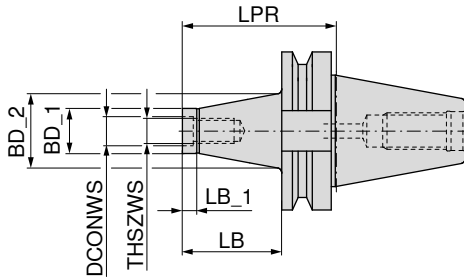
Spare parts

SZID	£ XX	£ XX	£ XX	£ XX
ABS 25		5.68 26800	13.77 99700	8.22 27000
ABS 32	9.47 13989		13.77 99600	8.22 27100
ABS 40		6.43 26900	14.92 99500	8.54 27200
ABS 50		8.63 20300	19.57 99800	10.97 20400
ABS 63		8.22 25500	18.45 99400	10.42 27300
ABS 80		10.10 25600	22.38 99300	12.30 25100
ABS 100		12.45 25700	26.03 99200	13.65 25200

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

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	£ WA	
BT 40	M8	8.5	25	13.8	15	12	52	202.78	081
BT 40	M8	8.5	50	13.8	23	12	77	207.74	082
BT 40	M8	8.5	75	13.8	25	12	102	212.54	083
BT 40	M10	10.5	25	18.0	23	12	52	202.78	101
BT 40	M10	10.5	50	18.0	25	12	77	207.74	102
BT 40	M10	10.5	75	18.0	30	12	102	212.54	103
BT 40	M12	12.5	25	21.0	24	12	52	202.78	121
BT 40	M12	12.5	50	21.0	30	12	77	207.74	122
BT 40	M12	12.5	75	21.0	35	12	102	212.54	123
BT 40	M12	12.5	100	21.0	38	12	127	217.49	124
BT 40	M16	17.0	25	29.0	29	12	52	202.78	161
BT 40	M16	17.0	50	29.0	34	12	77	207.74	162
BT 40	M16	17.0	75	29.0	35	12	102	212.54	163
BT 40	M16	17.0	100	29.0	40	12	127	217.49	164

Accessories

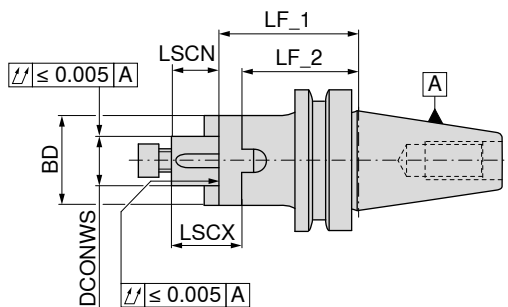
Extension-Reduction set → 245	Pull studs → 111-112	Others → 273

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



A
G 6,3 n_{max} 8000

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

1) With cross screw

Spare parts

16	3.45	284	12.74	116	21.07	116	5.60	016	5.93	113
22	3.45	285	12.23	122	26.21	122	6.23	022	6.70	124
27	5.48	286	15.26	127	30.81	127	7.96	027	7.40	125
32	3.90	287	16.01	132	42.00	132	12.50	032	9.02	126
40	4.60	288	26.96	140	41.71	140	13.38	040	9.94	112

Accessories

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

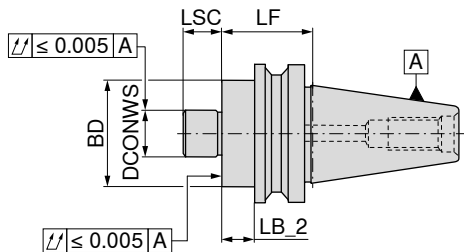
Parallel key	Drive ring	Cross nut key	Retaining screw	clamping screw
83 950 ...	83 370 ...	83 368 ...	83 367 ...	83 950 ...
£ Y8	£ Y8	£ Y8	£ Y8	£ Y8

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 ...

£
Y8
110.22 01600
110.22 02200
125.66 02700
136.74 03200



AD
G 6,3 n_{max} 8000

82 514 ...

£
Y8
168.40 316
174.03 322
178.16 327
194.16 332
198.16 340 ¹⁾



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

82 514 ...

£
Y8
114.59 116
124.69 122
126.12 127
133.06 132
144.60 140 ¹⁾

123.14 416
130.23 422
133.06 427
140.12 432
148.71 440 ¹⁾

130.50 816
134.77 822
136.85 827
143.40 832
149.76 840 ¹⁾

182.71 916
186.57 922
192.13 927
197.72 932
201.53 940 ¹⁾

168.85 516
174.03 522
176.62 527
184.98 532
192.74 540 ¹⁾

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm			
short	BT 30	16	18	40	38	17			
	BT 30	22	18	40	48	19			
	BT 30	27	18	50	58	21			
	BT 30	32	28	50	78	24			
	BT 40	16	25	52	38	17			
	BT 40	22	25	52	48	19			
	BT 40	27	25	52	58	21			
	BT 40	32	23	50	78	24			
	BT 40	40	23	50	88	27			
	BT 50	16	25	63	38	17			
	BT 50	22	25	63	48	19			
	BT 50	27	25	63	58	21			
	BT 50	32	22	60	78	24			
	BT 50	40	22	60	88	27			
long	BT 40	16	73	100	38	17			
	BT 40	22	73	100	48	19			
	BT 40	27	73	100	58	21			
	BT 40	32	73	100	78	24			
	BT 40	40	73	100	88	27			
	BT 50	16	62	100	38	17			
	BT 50	22	62	100	48	19			
	BT 50	27	62	100	58	21			
	BT 50	32	62	100	78	24			
	BT 50	40	62	100	88	27			
medium length	BT 40	16	103	130	38	17			
	BT 40	22	103	130	48	19			
	BT 40	27	103	130	58	21			
	BT 40	32	103	130	78	24			
	BT 40	40	103	130	88	27			
	BT 50	16	92	130	38	17			
	BT 50	22	92	130	48	19			
	BT 50	27	92	130	58	21			
	BT 50	32	92	130	78	24			
	BT 50	40	92	130	88	27			
extra-long	BT 40	16	133	160	38	17			
	BT 40	22	133	160	48	19			
	BT 40	27	133	160	58	21			
	BT 40	32	133	160	78	24			
	BT 40	40	133	160	88	27			
	BT 50	16	122	160	38	17			
	BT 50	22	122	160	48	19			
	BT 50	27	122	160	58	21			
	BT 50	32	122	160	78	24			
	BT 50	40	122	160	88	27			

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

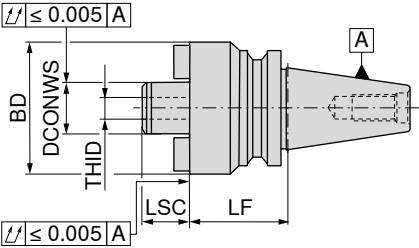
Spare parts facemill adapters

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 ...

£

Y8

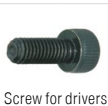
322.60

395.15

240

260

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



Screw for drivers



Driver



Socket head
screw



clamping screw

83 950 ...

83 950 ...

70 950 ...

83 950 ...

Spare parts

DCONWS

		£		£		£		£	
40	M6x16	1.65	138	15,9x16,3x19,5	21.97	295	M12x50	7.39	140
60				25,4x16,3x26,5	24.77	298	M16x45	15.19	160
				M12x30 - SW10	8.06	181			

Accessories



Pull studs



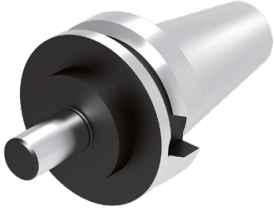
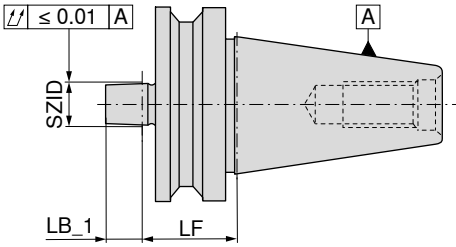
Others

→ 111-112

→ 273

Drill chuck adapter

▲ also available with Balluff chip on request



A
G 6,3 n_{max} 8000

Adapter	SZID	LF mm	LB_1 mm	£	
BT 30	B12	25	18.5	94.77	01200
BT 30	B16	25	24.0	94.77	01600
BT 40	B12	40	18.5	108.16	112
BT 40	B16	40	24.0	124.01	116
BT 40	B18	32	32.0	87.89	11800
BT 50	B16	50	24.0	177.42	216
BT 50	B18	50	32.0	185.66	218

82 513 ...

£

Y8

01200

01600

108.16

112

124.01

116

87.89

11800

177.42

216

185.66

218

Spare parts

SZID		£		£	
B12	0 - 8 mm	154.05	012	182.16	112
B16	1 - 13 mm	218.33	016	178.26	116
B18				232.48	018

Accessories

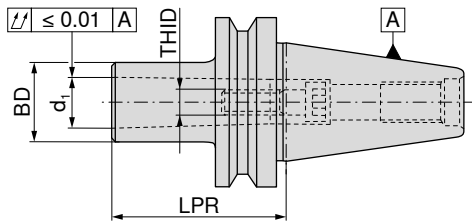
	
Pull studs	Others
→ 111-112	→ 273

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		
						£ Y8	
short	BT 40	MK1	50	25	M6	110.42	01000
	BT 40	MK2	55	32	M10	110.42	02000
	BT 40	MK3	70	40	M12	148.47	030
	BT 40	MK4	95	48	M16	154.25	040
	BT 50	MK1	45	25	M6	201.93	210
	BT 50	MK2	60	32	M10	196.75	220
	BT 50	MK3	65	40	M12	199.58	230
	BT 50	MK4	95	48	M16	207.00	240
	BT 50	MK5	118	63	M20	235.37	250

Morse taper
clamping screw

Counterscrew

Hollow key with
nose

Fixing ring

Spare parts for Article no.	83 950 ...		83 950 ...		83 359 ...		83 950 ...	
	£ Y8		£ Y8		£ Y8		£ Y8	
82 527 01000	0.96	260	0.79	030	36.27	013	10.65	265
82 527 02000	2.05	261	0.79	030	36.27	013	10.65	267
82 527 030	1.31	018	0.79	030	40.94	017	14.48	269
82 527 040	6.22	019	0.79	030	49.78	023	14.48	270
82 527 210	0.96	260	0.79	031	43.62	020	12.57	266
82 527 220	1.31	017	0.79	031	43.62	020	12.57	268
82 527 230	1.31	018	0.79	031	40.94	017	14.48	269
82 527 240	6.22	019	0.79	031	49.78	023	14.48	270
82 527 250	11.63	262	0.79	031	61.66	033	17.86	271

Accessories



Pull studs



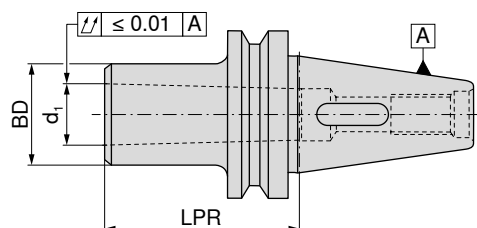
Others

→ 111–112

→ 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 ...

£

Y8

115.69 01000

105.87 02000

105.87 03000

100.44 110

103.29 120

110.45 130

116.09 140

126.12 210

130.23 220

179.39 230

140.12 240

153.08 250

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

Accessories

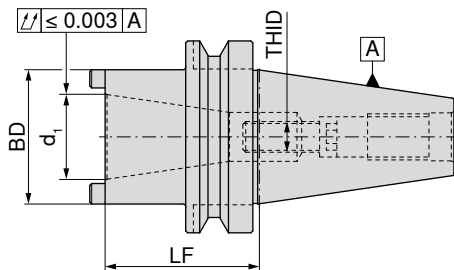
		
Morse taper adapter sleeve	Pull studs	Others
→ 230	→ 111–112	→ 273

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 ...

£
Y8

203.75 10600

203.75 11000

320.01 250

Adapter	d ₁	LF mm	BD mm	THID
BT 40	SK 30	60	51	M12
BT 40	SK 40	100	63	M16
BT 50	SK 40	80	70	M16

Spare parts for Article no.

	£ Y8		£ Y8		£ Y8		£ Y8		£ Y8
82 518 10600			4.97	18400	0.79	030	40.94	017	6.10
82 518 11000	10.42	009			0.79	030	49.78	023	14.48
82 518 250	10.42	009							270

Clamping screw
SK

83 950 ...

Morse taper
clamping screw

83 950 ...



Counterscrew

83 950 ...

Hollow key with
nose

83 359 ...



Fixing ring

83 950 ...

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

ISO 7388-2	Taper Shank	Clamping screw length	Clamping screw length
Suitable for article no.	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

→ 111–112



Others

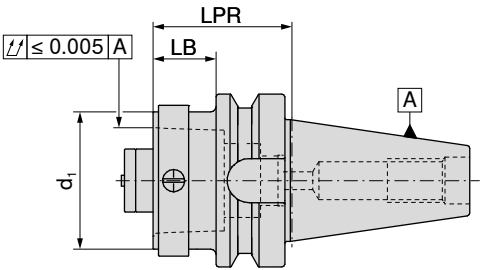
→ 273

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 ...

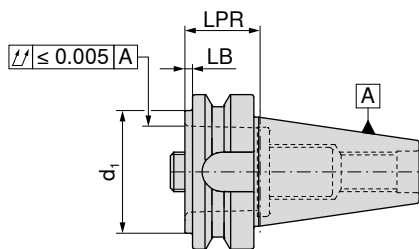
Adapter	d ₁	LB mm	LPR mm	£ Y8	
BT 40	HSK-A 32	13	40	937.25	04060
BT 40	HSK-A 40	13	40	954.83	04059
BT 40	HSK-A 50	23	50	972.22	04058
BT 40	HSK-A 63	43	70	954.83	04057
BT 50	HSK-A 32	12	50	1,181.25	05060
BT 50	HSK-A 40	12	50	1,181.25	05059
BT 50	HSK-A 50	22	60	1,216.03	05058
BT 50	HSK-A 63	22	60	1,285.58	05057
BT 50	HSK-A 100	52	90	1,460.03	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



NEW



AD

84 017 ...

Adapter	d ₁	LB mm	LPR mm	£ Y8	
BT 40	PSC 32	3	30	606.12	04087
BT 40	PSC 40	3	30	623.70	04095
BT 40	PSC 50	3	30	623.70	04094
BT 40	PSC 63	58	85	606.12	04093
BT 50	PSC 32	2	40	832.55	05087
BT 50	PSC 40	2	40	972.22	05095
BT 50	PSC 50	2	40	850.12	05094
BT 50	PSC 63	2	40	884.90	05093
BT 50	PSC 80	32	70	919.86	05086



Threaded ring



tightening screw

84 950 ...

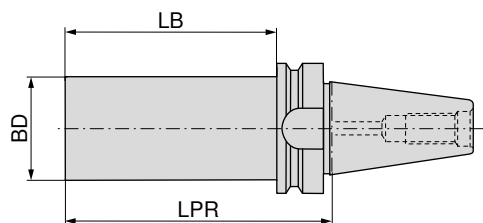
84 950 ...

Spare parts DCONWS

	£ Y8			£ Y8	
22	41.15	127	SW8	29.87	122
28	41.15	128	SW8	33.67	123
35	41.15	129	SW10	33.67	124
44	82.16	130	SW14	37.47	126
55	82.16	130	SW14	37.47	126

Blank

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



A



AD/B

82 523 ...

£
Y8

82 523 ...

£
Y8

164.71 040

274.23 050

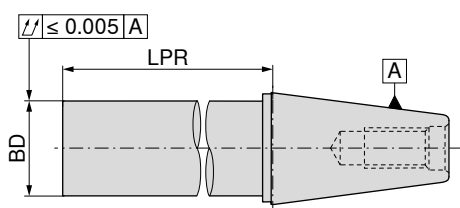
Adapter	BD mm	LPR mm	LB mm
BT 40	63.0	250	223
BT 50	63.5	300	262

Test bar

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

Scope of supply:

in wooden box



A

82 456 ...

£
Y8

771.57 040

954.42 050

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

Accessories



Pull studs

→ 58, 111–112



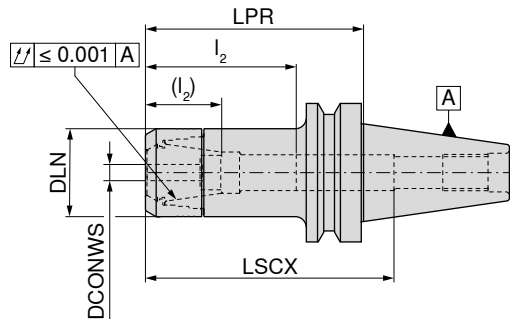
Others

→ 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	£ Y8	
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	254.32	002
BT-FC 30	1 - 10	90	30	105	29 - 41 (29 - 38)	426E (ER16)	255.98	00400
BT-FC 30	1 - 10	120	30	130	29 - 45 (29 - 32)	426E (ER16)	294.15	00600
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	257.95	012
BT-FC 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	257.95	022
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	283.38	102
BT-FC 40	1 - 10	90	30	115	38 - 53 (29 - 38)	426E (ER16)	244.86	10400
BT-FC 40	1 - 10	120	30	145	38 - 53 (29 - 38)	426E (ER16)	313.22	10600
BT-FC 40	1 - 16	90	40	84	41 - 64 (36 - 46)	430E (ER25)	244.86	11400
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	287.02	112
BT-FC 40	2 - 16	120	40	113	41 - 64 (36 - 46)	430E (ER25)	335.48	11600
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	287.02	122
BT-FC 40	2 - 20	90	50	95	41 - 72 (41 - 55)	470E (ER32)	244.86	12400
BT-FC 40	2 - 20	120	50	110	41 - 72 (41 - 55)	470E (ER32)	335.48	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

Spare parts for Article no.	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£ Y8		£ Y8		£ Y8		£ Y8	
84 525 002	76.42	011	56.75	001	47.40	341	31.75	337
84 525 012	85.18	013	63.06	003	33.34	432	23.78	431
84 525 022	91.08	015	69.36	005	28.16	402	20.51	401
84 525 102	76.42	011	56.75	001	47.40	341	31.75	337
84 525 112	85.18	013	63.06	003	33.34	432	23.78	431
84 525 122	91.08	015	69.36	005	28.16	402	20.51	401

Accessories

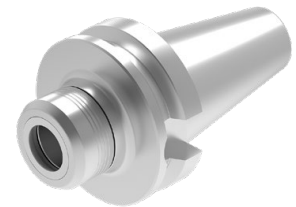
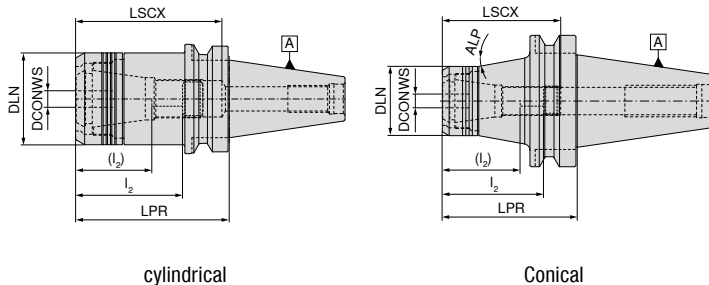
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256–266	→ 269	→ 275	→ 275	→ 111–112	→ 273

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

NEW



AD

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

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	84 400 ...	84 400 ...
BT-FC 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	£ Y8 508.73	12064
BT-FC 40	2 - 20	90	53	95	41 - 65 (27 - 47)		470E (ER32)	£ Y8 522.69	22064
BT-FC 50	2 - 20	75	53	114	41 - 81 (27 - 63)	10	470E (ER32)		847.88 12063
BT-FC 50	2 - 20	105	53	144	41 - 81 (27 - 63)	10	470E (ER32)		855.86 22063



LSCX = Clamping depth without backstop screw

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

Spare parts

DCONWS

2 - 20

		
Lock nut	Stop screw 2	Stop screw 1
84 950 ...	83 950 ...	83 950 ...
£ Y8 105.74	£ Y8 28.16	£ Y8 20.51
30100	402	401

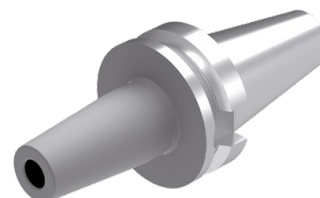
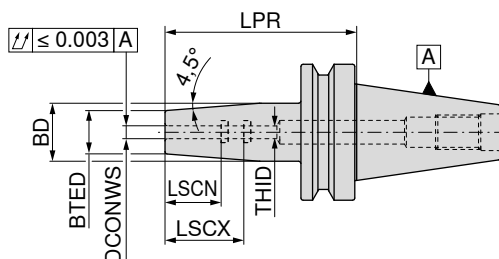
Accessories

				
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 ...

£
Y8£
Y8

	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	212.31	003
	BT-FC 30	4	85	15	22	28	16	M6	212.31	004
	BT-FC 30	5	85	15	22	30	20	M6	212.31	005
	BT-FC 30	6	85	21	27	36	26	M5	212.31	006
	BT-FC 30	8	85	21	27	36	26	M6	212.31	008
	BT-FC 30	10	85	24	32	41	31	M8x1	212.31	010
	BT-FC 30	12	85	24	32	47	37	M10x1	212.31	012
	BT-FC 30	16	85	27	34	50	40	M12x1	212.31	016
	BT-FC 30	20	85	33	42	52	42	M16x1	212.31	020
	BT-FC 40	3	90	10	17	28	12	M6	188.46	103
	BT-FC 40	4	90	15	22	28	16	M6	188.46	104
	BT-FC 40	5	90	15	22	30	20	M6	188.46	105
	BT-FC 40	6	90	21	27	36	26	M5	188.46	106
	BT-FC 40	8	90	21	27	36	26	M6	188.46	108
	BT-FC 40	10	90	24	32	41	31	M8x1	188.46	110
	BT-FC 40	12	90	24	32	47	37	M10x1	188.46	112
	BT-FC 40	16	90	27	34	50	40	M12x1	188.46	116
	BT-FC 40	20	90	33	42	52	42	M16x1	188.46	120
	BT-FC 40	25	100	44	53	58	48	M16x1	188.46	125

Spare parts
DCONWS

3 - 5
6
8
10
12
16
20 - 25

83 950 ...

£
Y7

M6x14 - SW2

19.83 417

83 950 ...

£
Y7

M5x12,5 - SW2,5 19.83 418
M6x12,5 - SW3 19.83 419
M8x1x13,5 - SW3 19.83 420
M10x1x13,5 - SW5 19.83 421
M12x1x13,5 - SW5 19.83 422
M16x1x13,5 - SW8 22.87 424

Accessories

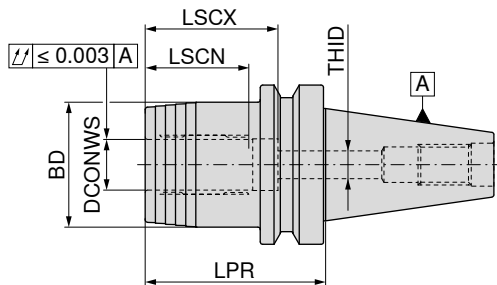
Shrink fit extension	Pull studs	Others
→ 235	→ 111-112	→ 273

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 ...

£

Y8

380.18 120

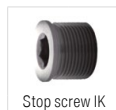
Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
BT-FC 40	20	72.5	49	51	40	M16x1x13,5



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.

83 527 120	SW5	80 397 ...	£ Y7	6.39	050	M10x1x10	83 950 ...	£ Y7	18.06	158	M8x1x13,5 - SW3	83 950 ...	£ Y7	19.83	420
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Accessories



Reduction sleeve

→ 271



Pull studs

→ 111–112



Others

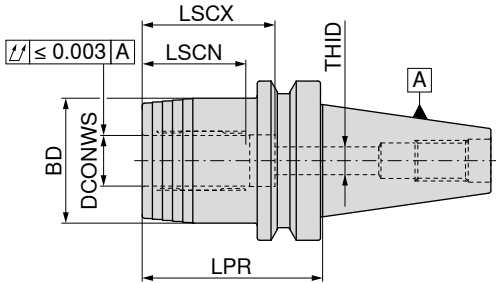
→ 273

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 ...

£
Y8

341.74 120

456.41 332

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



Pressure screw



Stop screw IK

83 950 ...

£
Y7

13.73 440

83 950 ...

£
Y7

22.87 424

Spare parts

DCONWS

20 - 32

M10x1x12

M16x1x13,5 - SW8

Accessories



Reduction sleeve

→ 271



Pull studs

→ 111-112

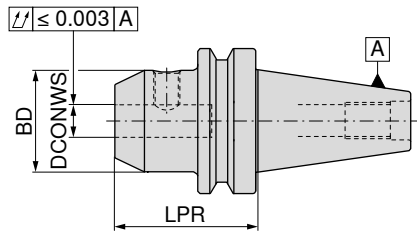


Others

→ 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} mm	LPR mm	BD mm		
					£ Y8	
short	BT-FC 30	6	50	25	110.47	006
	BT-FC 30	8	50	28	110.47	008
	BT-FC 30	10	50	35	110.47	010
	BT-FC 30	12	50	42	110.47	012
	BT-FC 30	16	63	48	118.52	016
	BT-FC 30	20	63	52	118.52	020
	BT-FC 40	6	50	25	139.99	106
	BT-FC 40	8	50	28	135.45	108
	BT-FC 40	10	63	35	135.45	110
	BT-FC 40	12	63	42	135.45	112
	BT-FC 40	16	63	48	135.45	116
	BT-FC 40	20	63	52	135.45	120
	BT-FC 40	25	90	65	180.08	125
	BT-FC 40	32	100	72	180.08	132
	BT-FC 50	6	63	25	207.77	306
	BT-FC 50	8	63	28	201.64	308
	BT-FC 50	10	63	35	201.64	310
	BT-FC 50	12	80	42	201.64	312
	BT-FC 50	16	80	48	201.64	316
	BT-FC 50	20	80	52	201.64	320
	BT-FC 50	25	100	65	230.82	325
	BT-FC 50	32	105	72	230.82	332



Grubscrew

62 950 ...

Spare parts

DCONWS_{H4}

		£ W7	
6	M6x10	0.91	006
8	M8x10	0.91	008
10	M10x12	1.75	010
12	M12x16	1.39	012
16	M14x16	1.71	016
20	M16x16	1.83	020
25	M18x2x20	3.53	025
32	M20x2x20	3.69	032

Accessories



Pull studs

→ 111–112



Others

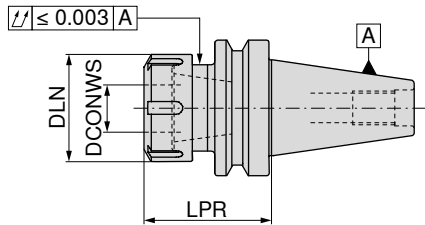
→ 273

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)	£ 124.66	010
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	£ 124.66	016
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	£ 124.66	020
	BT-FC 40	1 - 10	63	28	56	426E (ER16)	£ 157.02	110
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	£ 157.02	116
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	£ 157.02	120
	BT-FC 50	1 - 16	70	42	104	430E (ER25)	£ 213.90	316
	BT-FC 50	2 - 20	70	50	136	470E (ER32)	£ 213.90	320
long	BT-FC 50	1 - 10	100	28	56	426E (ER16)	£ 213.90	310



Lock nut

62 950 ...



Lock nut

62 950 ...



Y clamping key

83 357 ...



Stop screw IK

81 950 ...

Spare parts
for collet

		£ W7		£ Y8		£ Y8	
426E (ER16) / BT30-BT50	M22x1,5 - SW25	26.65	044				
430E (ER25) / BT30-BT50	M32x1,5	22.08	055	23.31	125	4.18	054
470E (ER32) / BT30-BT50	M40x1,5	22.64	056	33.95	132	4.64	055

Accessories



ER collet

→ 256–266



Pull studs

→ 111–112

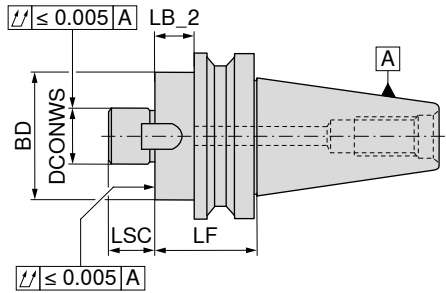


Others

→ 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	£	
							Y8	
short	BT-FC 30	16	18	39.0	40	17	121.59	016
	BT-FC 30	22	18	39.0	50	19	121.59	022
	BT-FC 30	27	18	39.0	60	21	121.59	027
	BT-FC 30	32	28	49.0	80	24	121.59	032
	BT-FC 40	16	8	34.0	40	17	146.23	116
	BT-FC 40	22	8	34.0	50	19	146.23	122
	BT-FC 40	27	8	34.0	60	21	146.23	127
	BT-FC 40	32	23	49.0	80	24	146.23	132
	BT-FC 40	40	23	49.0	89	27	146.23	140
	BT-FC 50	22	12	48.5	50	19	169.28	322
	BT-FC 50	27	12	48.5	60	21	169.28	327
	BT-FC 50	32	12	48.5	80	24	180.08	332
	BT-FC 50	40	17	53.5	89	27	180.08	340



Screw for drivers



Driver



clamping screw

Spare parts for Article no.

84 562 016	M3x12	8.20	162	8x9x11	20.84	157	M8x25	5.93	113
84 562 022	M4x10	8.20	163	10x11,2x13	24.53	158	M10x25	6.70	124
84 562 027	M4x16	8.20	164	12x12,6x15	26.57	159	M12x30	7.40	125
84 562 032	M5x16	8.20	165	14x14x22,5	30.20	160	M16x35	9.02	126
84 562 116	M3x12	8.20	162	8x9x11	20.84	157	M8x25	5.93	113
84 562 122	M4x10	8.20	163	10x11,2x13	24.53	158	M10x25	6.70	124
84 562 127	M4x16	8.20	164	12x12,6x15	26.57	159	M12x30	7.40	125
84 562 132	M5x16	8.20	165	14x14x22,5	30.20	160	M16x35	9.02	126
84 562 140	M5x16	8.20	166	16x16x23	33.61	161	M20x40 - SW17	9.94	112
84 562 322	M4x10	8.20	163	12x12,6x15	26.57	159	M10x25	6.70	124
84 562 327	M4x16	8.20	164	12x12,6x15	26.57	159	M12x30	7.40	125
84 562 332	M5x16	8.20	165	14x14x22,5	30.20	160	M16x35	9.02	126
84 562 340	M5x16	8.20	166	16x16x23	33.61	161	M20x40 - SW17	9.94	112

Accessories



Pull studs



Others

→ 111–112

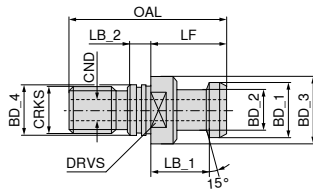
→ 273

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 15° Form A

Scope of supply:

including O-Ring



83 532 ...

£

Y8

18.31

040

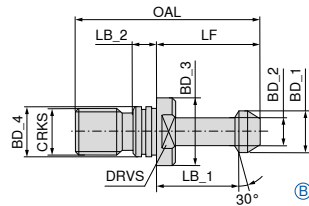
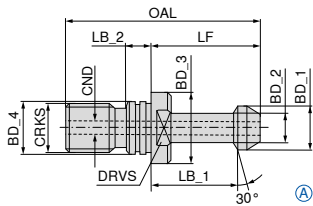
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm
BT 40	19	14	23	17	M16	54	29	23	5	5	19	90

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 ...

£

Y8

82 531 ...

£

Y8

18.18

030

18.18

040

23.39

050

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

18.18

030

15.57

040

22.09

050



O-Ring

Spare parts

BD_4

17	BT / SK 40	2.49	040
25	BT / SK 50	2.49	050

83 476 ...

£

Y8

2.49

040

2.49

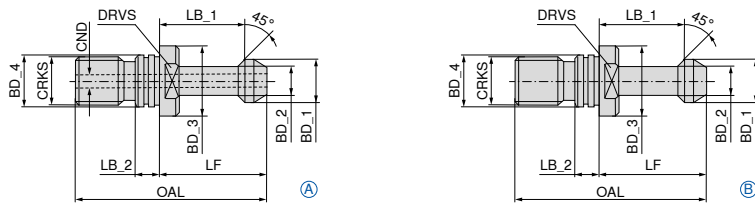
050

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:

including O-Ring



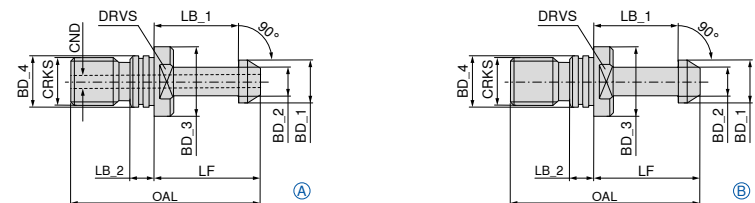
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 530 ...		82 534 ...	
														£		£	
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	60	A	Y8		18.18	030
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	90	A			18.18	040
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	145	A			23.39	050
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0		13	60	B	18.18	030		
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5		19	90	B	15.57	040		
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0		30	145	B	22.09	050		

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:

including O-Ring

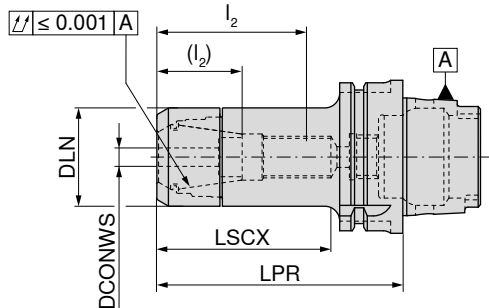


Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 536 ...		82 537 ...	
														£		£	
BT 40	15	10	23	17	M16	60	35	28	5.5	4	19	90	A	Y8		18.18	040
BT 50	23	17	38	25	M24	85	45	35	8.0	6	30	145	A			23.39	050
BT 40	15	10	23	17	M16	60	35	28	5.5		19	90	B	15.57	040		
BT 50	23	17	38	25	M24	85	45	35	8.0		30	145	B	22.09	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	£ Y8	
HSK-A 40	1 - 10	60	30	40	32 - 54	426E (ER16)	254.85	401
HSK-A 40	2 - 16	60	40	40		430E (ER25)	295.05	404
HSK-A 40	2 - 20	61	50	45		470E (ER32)	319.58	407
HSK-A 50	2 - 16	60	40	37		430E (ER25)	295.05	504
HSK-A 50	2 - 16	70	40	49	34 - 35	430E (ER25)	295.05	505
HSK-A 63	1 - 10	55	30	32		426E (ER16)	285.08	609
HSK-A 63	1 - 10	100	30	71	28 - 45 (16 - 31)	426E (ER16)	277.36	610
HSK-A 63	1 - 10	130	30	87	26 - 50 (17 - 38)	426E (ER16)	319.58	613
HSK-A 63	1 - 10	160	30	106	28 - 45 (16 - 31)	426E (ER16)	337.21	611
HSK-A 63	1 - 10	200	30	136	28 - 45 (16 - 31)	426E (ER16)	570.01	612
HSK-A 63	2 - 16	60	40	37		430E (ER25)	285.08	615
HSK-A 63	2 - 16	100	40	70	35 - 55 (24 - 37)	430E (ER25)	277.36	616
HSK-A 63	2 - 16	130	40	89	37 - 60 (12 - 42)	430E (ER25)	344.14	619
HSK-A 63	2 - 16	160	40	128	35 - 60 (24 - 42)	430E (ER25)	354.32	617
HSK-A 63	2 - 20	70	50	46		470E (ER32)	277.36	620
HSK-A 63	2 - 20	100	50	71	41 - 57 (26 - 39)	470E (ER32)	277.36	621
HSK-A 63	2 - 20	130	50	101	42 - 69 (18 - 41)	470E (ER32)	344.14	625
HSK-A 63	2 - 20	160	50	129	52 - 70 (26 - 60)	470E (ER32)	354.32	622
HSK-A 63	3 - 26	80	63	56		472E (ER40)	356.31	626 ¹⁾
HSK-A 63	3 - 26	120	63	91		472E (ER40)	294.15	62700
HSK-A 100	1 - 10	100	30	70	28 - 48 (16 - 35)	426E (ER16)	549.26	110
HSK-A 100	1 - 10	130	30	101	28 - 48 (16 - 35)	426E (ER16)	424.52	11200
HSK-A 100	1 - 10	160	30	130	28 - 48 (16 - 35)	426E (ER16)	786.59	111
HSK-A 100	1 - 16	100	40	98	40 - 60 (22 - 42)	430E (ER25)	424.52	11800
HSK-A 100	2 - 16	100	40	71	38 - 56 (20 - 40)	430E (ER25)	549.26	116
HSK-A 100	2 - 16	160	40	105	38 - 68 (20 - 50)	430E (ER25)	786.59	117
HSK-A 100	2 - 20	100	50	70	42 - 59 (24 - 40)	470E (ER32)	806.51	121
HSK-A 100	2 - 20	130	50	97	44 - 69 (41 - 51)	470E (ER32)	424.52	12400
HSK-A 100	2 - 20	160	50	99	42 - 70 (24 - 52)	470E (ER32)	1,122.02	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

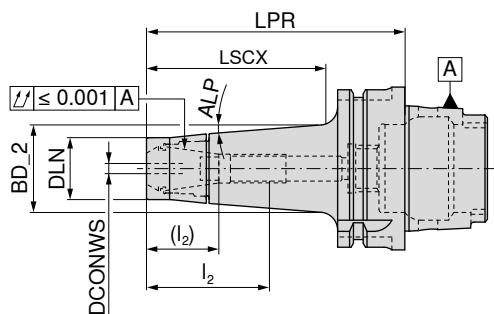
								
	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
Spare parts for collet	£		£		£		£	
426E (ER16)	76.42	011	56.75	001	47.40	341	31.75	337
430E (ER25)	85.18	013	63.06	003	33.34	432	23.78	431
470E (ER32)	91.08	015	69.36	005	28.16	402	20.51	401
472E (ER40)	124.56	017	100.91	007			28.75	400

ER precision collet chuck, tapered – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	LSCX mm	I_2 (I_2) mm	ALP	for collet	£	
HSK-A 40	1 - 10	100	24	30.8	67	26 - 47 (12 - 32)	2.0°	426E (ER16)	295.05	310
HSK-A 50	1 - 10	65	24	28.9	44	26 - 32	4.5°	426E (ER16)	295.05	710
HSK-A 50	1 - 10	100	24	34.4	77	26 - 47 (12 - 32)	4.5°	426E (ER16)	295.05	810
HSK-A 63	1 - 10	100	24	33.8	74	28 - 48 (20 - 35)	4.5°	426E (ER16)	277.36	610
HSK-A 63	1 - 10	130	24		77	28 - 48 (20 - 35)		426E (ER16)	259.16	61200
HSK-A 63	1 - 10	160	24	36.0	106	28 - 48 (20 - 35)	2.5°	426E (ER16)	323.69	611

→ 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 4 mm longer

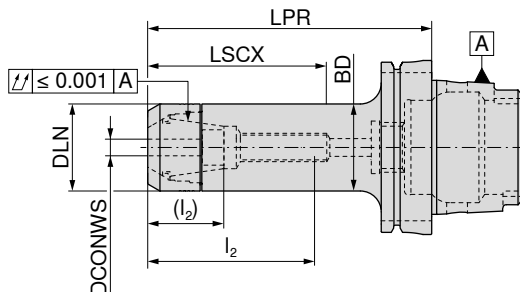
Spare parts
for collet
426E (ER16)

								
	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
	£		£		£		£	
	Y8	033	Y8	031	Y8	341	Y8	337
	93.82		79.26		47.40		31.75	

ER precision collet chuck, slim – Centro-P

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

Scope of supply:

Holder **without** nut, **without** 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	£ Y8	
HSK-A 50	1 - 7	130	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	368.83	407
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)	282.69	507
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	295.53	607
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)	363.90	707
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	385.22	608
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)	282.69	610
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)	282.69	710
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)	363.90	810
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)	363.90	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

Spare parts for collet	Mini lock nut IK		Mini lock nut		Stop screw 2		Stop screw 1	
	£ Y8		£ Y8		£ Y8		£ Y8	
4008E (ER11)			79.26	041	45.18	340	30.09	336
426E (ER16)	77.19	035	63.32	034	47.40	341	31.75	337

Accessories

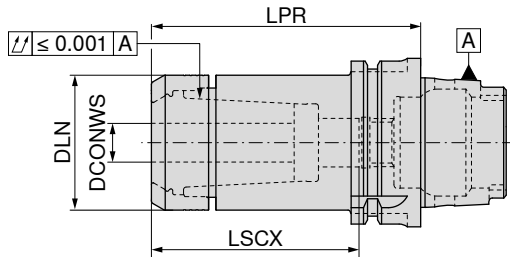
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256–263, 266	→ 269	→ 274	→ 275	→ 275	→ 163	→ 273

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 ...

£

Y8

311.78

626

463.49

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 ...

£

Y8

75.33

020

Spare parts for collet

462E

Accessories

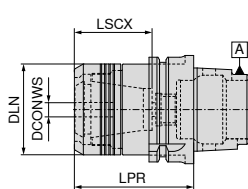
					
OZ Collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→ 267	→ 267	→ 275	→ 275	→ 163	→ 273

ER precision collet chuck – HDC

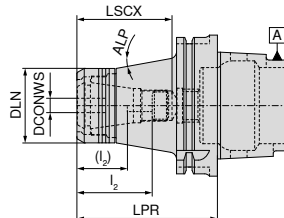
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{\max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

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



cylindrical



Conical



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

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

cylindrical

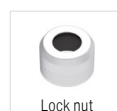
conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet		
HSK-A 63	2 - 20	70	53	45	41 - 57 (27 - 39)		470E (ER32)	£ Y8	
HSK-A 63	2 - 20	100	53	72	41 - 57 (27 - 39)		470E (ER32)	399.00	12057
HSK-A 100	2 - 20	100	53	68	41 - 54 (27 - 36)	10	470E (ER32)	399.00	22057
									662.34 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 ...

£
Y8

105.74 30100

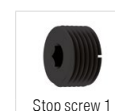


Stop screw 2

83 950 ...

£
Y8

28.16 402



Stop screw 1

83 950 ...

£
Y8

20.51 401

DCONWS

2 - 20

Accessories



ER collet

→ 256-266



Roll key

→ 275



Roll key device

→ 275



Others

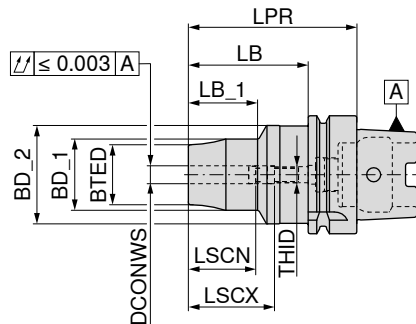
→ 273

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

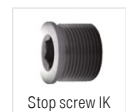
83 706 ...

£

Y8

	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	1,018.15	616
	HSK-A 63	20	100	42	48	52.5	45	51	41	74	M16x1	943.79	620
	HSK-A 63	25	120	51	57	53.0	62	57	47	94	M16x1	1,018.15	625
	HSK-A 63	32	125	57	63	53.0	62	61	51	99	M16x1	1,018.15	632

→ Min. clamping depth, Page 300



80 397 ...

£

Y7

83 950 ...

£

Y7

83 950 ...

£

Y7

Spare parts for Article no.

83 706 616	SW5	6.39	050	TR10x1,5x14	33.77	430	M12x1x18	17.55	446
83 706 620	SW5	6.39	050	TR10x1,5x14	33.77	430	M16x1x18,5	19.23	448
83 706 625	SW5	6.39	050	TR10x1,5x14	33.77	430	M16x1x22	30.40	449
83 706 632	SW5	6.39	050	TR10x1,5x14	33.77	430	M16x1x25	37.83	450

Accessories

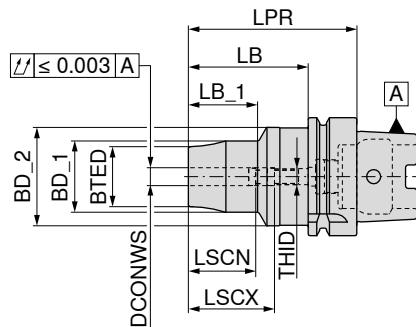
Reduction sleeve	Coolant transfer pipe	Others
→ 271	→ 163	→ 273

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 ...

£

Y8

386.37 120

→ Min. clamping depth, Page 300

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

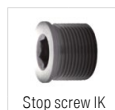
Spare parts for Article no. 83 722 120



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

£

Y7

6.39 050

83 950 ...

£

Y7

18.06 158

83 950 ...

£

Y7

19.83 420

SW5

M10x1x10

M8x1x13,5 - SW3

Accessories



Reduction sleeve

→ 271



Coolant transfer pipe

→ 163



Others

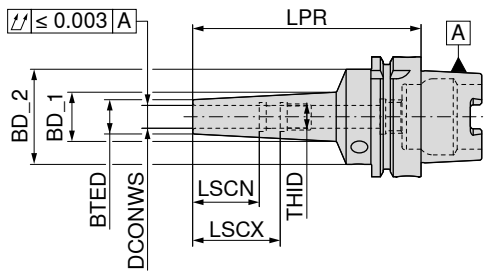
→ 273

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

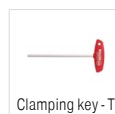


G 2,5 n_{max} 25000

83 727 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	£ Y8	
long	HSK-A 63	3	120	9	16.65	50	28	12	M3	738.66	603
	HSK-A 63	4	120	10	17.65	50	28	16	M3	738.66	604
	HSK-A 63	5	120	11	18.65	50	28	20	M3	738.66	605
	HSK-A 63	6	120	12	19.75	50	37	27	M5	636.33	606
	HSK-A 63	8	120	14	21.75	50	37	27	M6	636.33	608
	HSK-A 63	10	120	16	23.75	50	41	31	M8x1	636.33	610
	HSK-A 63	12	120	18	25.86	50	46	36	M10x1	636.33	612
	HSK-A 63	16	120	24	31.50	50	49	39	M12x1	989.68	616
	HSK-A 63	20	120	28	35.55	50	51	41	M16x1	989.68	620
extra-long	HSK-A 63	6	160	16	33.53	50	37	27	M5	1,045.49	706
	HSK-A 63	8	160	18	34.55	50	37	27	M6	1,045.49	708
	HSK-A 63	10	160	20	36.27	50	41	31	M8x1	1,045.49	710
	HSK-A 63	12	160	22	37.78	50	46	36	M10x1	1,045.49	712
extra long	HSK-A 63	6	200	16	37.83	50	37	27	M5	1,156.00	806
	HSK-A 63	8	200	18	38.85	50	37	27	M6	1,156.00	808
	HSK-A 63	10	200	20	40.57	50	41	31	M8x1	1,156.00	810
	HSK-A 63	12	200	22	42.07	50	46	36	M10x1	1,156.00	812

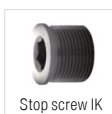
→ Min. clamping depth, Page 305



Clamping key - T



Pressure screw



Stop screw IK

Spare parts

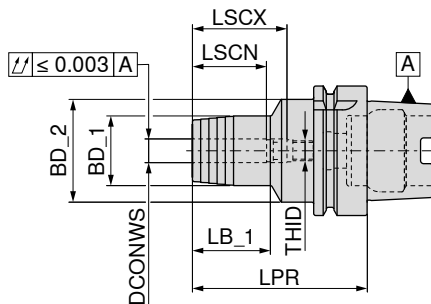
DCONWS		£ Y7		80 397 ...	£ Y7		83 950 ...	£ Y7		83 950 ...
3	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172	
4	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172	
5	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172	
6	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418	
6	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419	
8	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419	
10	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420	
12	SW5	6.39	050	M10x1x12	18.06	159	M10x1x13,5 - SW5	19.83	421	
16	SW5	6.39	050	M10x1x12	18.06	159	M12x1x13,5 - SW5	19.83	422	
20	SW5	6.39	050	M10x1x12	18.06	159	M16x1x13,5 - SW8	22.87	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

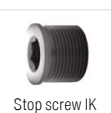
83 726 ...

£

Y8

	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	753.49	606
	HSK-A 63	8	70	28	49.5	37	27	24	M6	753.49	608
	HSK-A 63	10	80	30	49.5	41	31	32	M8x1	753.49	610
	HSK-A 63	12	85	32	49.5	46	36	40	M10x1	690.96	612
	HSK-A 63	16	90	38	49.5	49	39	46	M12x1	753.49	616
	HSK-A 63	20	90	42	49.5	51	41	48	M16x1	690.96	620
	HSK-A 63	25	120	57	52.0	57	47	63	M16x1	753.49	625
	HSK-A 63	32	125	63	53.0	61	51	61	M16x1	753.49	632

→ Min. clamping depth, Page 300



83 950 ...

£

Y7

83 950 ...

£

Y7

Spare parts DCONWS

6	M8x1x10	13.73	439	M5x12,5 - SW2,5	19.83	418
8	M8x1x10	13.73	439	M6x12,5 - SW3	19.83	419
10	M10x1x12	13.73	440	M8x1x13,5 - SW3	19.83	420
12	M10x1x12	13.73	440	M10x1x13,5 - SW5	19.83	421
16	M10x1x12	13.73	440	M12x1x13,5 - SW5	19.83	422
20 - 32	M10x1x12	13.73	440	M16x1x13,5 - SW5	22.87	423

Accessories



Reduction sleeve

→ 271



Coolant transfer pipe

→ 163



Others

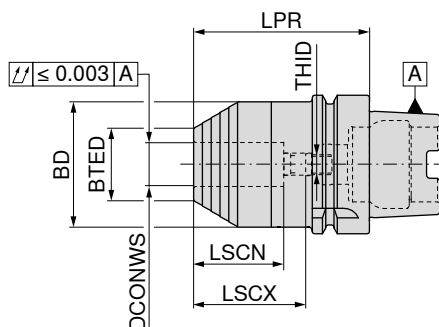
→ 273

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 ...

£

Y8

637.57

620

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

→ Min. clamping depth, Page 300

Spare parts

DCONWS

20



Pressure screw



Stop screw IK

83 950 ...

£

Y7

13.73

440

83 950 ...

£

Y7

M16x1x13,5 - SW5 22.87

423

Accessories



Reduction sleeve

→ 271



Coolant transfer pipe

→ 163



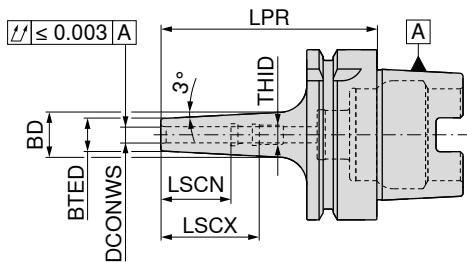
Others

→ 273

Shrink adapter, slim 3°

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

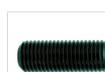
TG



G 2,5 n_{max} 25000

										84 324 ...	
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		£ Y8	
short	HSK-A 63	3	80	9	14	28	12	M6		567.54	103
	HSK-A 63	4	80	10	15	28	16	M6		552.41	104
	HSK-A 63	5	80	11	16	30	20	M6		552.41	105
	HSK-A 63	6	80	12	17	36	26	M5		499.43	106
	HSK-A 63	8	80	14	19	36	26	M6		499.43	108
	HSK-A 63	10	85	16	21	41	31	M8x1		499.43	110
	HSK-A 63	12	90	18	24	47	37	M10x1		499.43	112
	HSK-A 63	14	90	20	26	47	37	M10x1		499.43	114
	HSK-A 63	16	95	22	28	50	40	M12x1		499.43	116
	HSK-A 63	18	95	24	30	50	40	M12x1		499.43	118
	HSK-A 63	20	100	26	33	52	42	M16x1		499.43	120
long	HSK-A 63	3	120	9	16	12	12			605.37	203
	HSK-A 63	4	120	10	17	16	16			597.82	204
	HSK-A 63	5	120	11	18	20	20			597.82	205
	HSK-A 63	6	120	12	21	36	26	M5		537.26	206
	HSK-A 63	8	120	14	23	36	26	M6		537.26	208
	HSK-A 63	10	120	16	25	41	31	M8x1		537.26	210
	HSK-A 63	12	120	18	27	47	37	M10x1		537.26	212
	HSK-A 63	14	120	20	29	47	37	M10x1		537.26	214
	HSK-A 63	16	120	22	31	50	40	M12x1		537.26	216
	HSK-A 63	18	120	24	33	50	40	M12x1		537.26	218
	HSK-A 63	20	120	26	35	52	42	M16x1		537.26	220
extra-long	HSK-A 63	3	160	9	19	12	12			662.12	303
	HSK-A 63	4	160	10	20	16	16			646.99	304
	HSK-A 63	5	160	11	21	20	20			646.99	305
	HSK-A 63	6	160	12	24	36	26	M5		559.98	306
	HSK-A 63	8	160	14	26	36	26	M6		559.98	308
	HSK-A 63	10	160	16	28	41	31	M8x1		559.98	310
	HSK-A 63	12	160	18	30	47	37	M10x1		559.98	312
	HSK-A 63	14	160	20	32	47	37	M10x1		559.98	314
	HSK-A 63	16	160	22	34	50	40	M12x1		559.98	316
	HSK-A 63	18	160	24	36	50	40	M12x1		559.98	318
	HSK-A 63	20	160	26	38	52	42	M16x1		559.98	320

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK

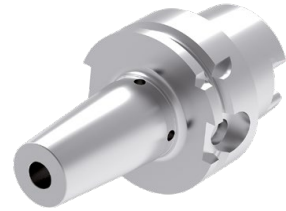
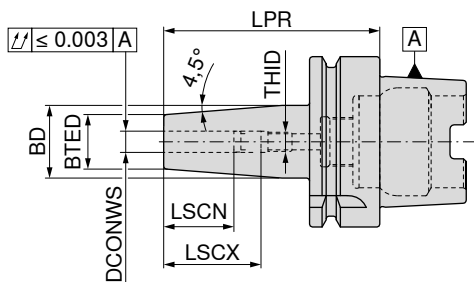
Spare parts
DCONWS

3-5	M6x14 - SW2	19.83	417	M5x12,5 - SW2,5	19.83	418
6				M6x12,5 - SW3	19.83	419
8				M8x1x13,5 - SW3	19.83	420
10				M10x1x13,5 - SW5	19.83	421
12 - 14				M12x1x13,5 - SW5	19.83	422
16 - 18				M16x1x13,5 - SW8	22.87	424
20						

Shrink fit adapters 4.5°

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

TG

G 2,5 n_{max} 25000

84 304 ...

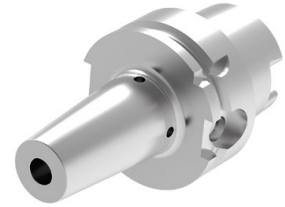
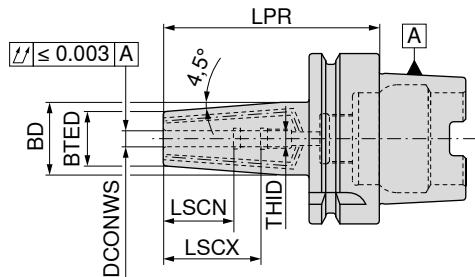
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	£ Y8	
short	HSK-A 63	3	80	10	15	22	12	M6	202.91	103
	HSK-A 63	4	80	15	22	26	16	M6	202.91	104
	HSK-A 63	5	80	15	22	30	20	M6	202.91	105
	HSK-A 63	6	80	21	27	36	26	M5	202.91	106
	HSK-A 63	8	80	21	27	36	26	M6	202.91	108
	HSK-A 63	10	85	24	32	41	31	M8x1	202.91	110
	HSK-A 63	12	90	24	32	47	37	M10x1	202.91	112
	HSK-A 63	14	90	27	34	47	37	M10x1	202.91	114
	HSK-A 63	16	95	27	34	50	40	M12x1	202.91	116
	HSK-A 63	18	95	33	42	50	40	M12x1	202.91	118
	HSK-A 63	20	100	33	42	52	42	M16x1	202.91	120
	HSK-A 63	25	115	44	53	58	48	M16x1	202.91	125
	HSK-A 63	32	120	44	53	62	52	M16x1	202.91	132
long	HSK-A 63	3	120	10	20	12	12		344.11	203
	HSK-A 63	4	120	15	22	16	16		337.84	204
	HSK-A 63	5	120	15	22	20	20		337.84	205
	HSK-A 63	6	120	21	27	36	26	M5	306.61	206
	HSK-A 63	8	120	21	27	36	26	M6	306.61	208
	HSK-A 63	10	120	24	32	41	31	M8x1	306.61	210
	HSK-A 63	12	120	24	32	47	37	M10x1	306.61	212
	HSK-A 63	14	120	27	34	47	37	M10x1	575.11	214
	HSK-A 63	16	120	27	34	50	40	M12x1	575.11	216
	HSK-A 63	18	120	33	42	50	40	M12x1	575.11	218
	HSK-A 63	20	120	33	42	52	42	M16x1	575.11	220
	HSK-A 63	25	120	44	53	58	48	M16x1	575.11	225
extra-long	HSK-A 63	3	160	10	20	12	12		384.72	303
	HSK-A 63	4	160	15	22	16	16		376.87	304
	HSK-A 63	5	160	15	22	20	20		376.87	305
	HSK-A 63	6	160	21	27	36	26	M5	345.68	306
	HSK-A 63	8	160	21	27	36	26	M6	345.68	308
	HSK-A 63	10	160	24	32	41	31	M8x1	345.68	310
	HSK-A 63	12	160	24	32	47	37	M10x1	345.68	312
	HSK-A 63	14	160	27	34	47	37	M10x1	345.68	314
	HSK-A 63	16	160	27	34	50	40	M12x1	345.68	316
	HSK-A 63	18	160	33	42	50	40	M12x1	345.68	318
	HSK-A 63	20	160	33	42	52	42	M16x1	345.68	320
	HSK-A 63	25	160	44	53	62	52	M16x1	345.68	325
extra long	HSK-A 63	6	200	21	27	36	26	M5	771.84	406
	HSK-A 63	8	200	21	27	36	26	M6	771.84	408
	HSK-A 63	10	200	24	32	41	31	M8x1	771.84	410
	HSK-A 63	12	200	24	32	47	37	M10x1	771.84	412
	HSK-A 63	14	200	27	34	47	37	M10x1	771.84	414
	HSK-A 63	16	200	27	34	50	40	M12x1	771.84	416
	HSK-A 63	18	200	33	42	50	40	M12x1	771.84	418
	HSK-A 63	20	200	33	42	52	42	M16x1	771.84	420
	HSK-A 63	25	200	44	53	62	52	M16x1	771.84	425
	HSK-A 63	32	200	44	53	62	52	M16x1	771.84	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	£	
	HSK-A 63	4	80	15	22	28	16	M6	Y8	
	HSK-A 63	5	80	15	22	30	20	M6	621.27	103
	HSK-A 63	6	80	21	27	36	26	M5	603.90	104
	HSK-A 63	8	80	21	27	36	26	M6	603.90	105
	HSK-A 63	10	85	24	32	41	31	M8x1	548.38	106
	HSK-A 63	12	90	24	32	47	37	M10x1	548.38	108
	HSK-A 63	14	90	27	34	47	37	M10x1	548.38	110
	HSK-A 63	16	95	27	34	50	40	M12x1	548.38	112
	HSK-A 63	18	95	33	42	50	40	M12x1	548.38	114
	HSK-A 63	20	100	33	42	52	42	M16x1	548.38	116
	HSK-A 63	25	115	44	53	58	48	M16x1	548.38	118
	HSK-A 63	32	120	44	53	62	52	M16x1	548.38	120
									548.38	125
									548.38	132

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK



Sealing screw

Spare parts
DCONWS

		£			£			£	
		Y7			Y7			Y7	
3 - 5	M6x14 - SW2	19.83	417	M5x12,5 - SW2,5	19.83	418	M2x6	1.60	512
6				M6x12,5 - SW3	19.83	419	M2x6	1.60	512
8				M8x1x13,5 - SW3	19.83	420	M2x6	1.60	512
10				M10x1x13,5 - SW5	19.83	421	M2x6	1.60	512
12 - 14							M2x6	1.60	512
16 - 18	M12x1 - SW5	26.94	510				M2x6	1.60	512
20 - 32	M16x1 - SW5	15.91	511				M2x6	1.60	512

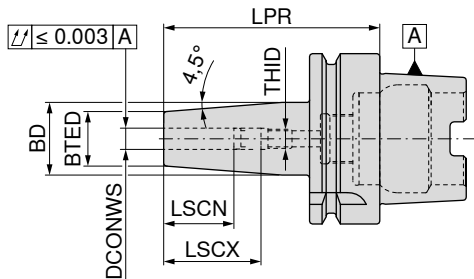
Accessories

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	LPR	BTED	BD	LSCX	LSCN	THID	£	
		mm	mm	mm	mm	mm	mm		Y8	
short	HSK-A 100	6	85	21	27	36	26	M5	380.52	106
	HSK-A 100	8	85	21	27	36	26	M6	380.52	108
	HSK-A 100	10	90	24	32	41	31	M8x1	380.52	110
	HSK-A 100	12	95	24	32	47	37	M10x1	380.52	112
	HSK-A 100	14	95	27	34	47	37	M10x1	380.52	114
	HSK-A 100	16	100	27	34	50	40	M12x1	380.52	116
	HSK-A 100	18	100	33	42	50	40	M12x1	380.52	118
	HSK-A 100	20	105	33	42	52	42	M16x1	380.52	120
	HSK-A 100	25	115	44	53	58	48	M16x1	380.52	125
	HSK-A 100	32	120	44	53	62	52	M16x1	380.52	132
long	HSK-A 100	6	120	21	27	36	26	M5	439.62	206
	HSK-A 100	8	120	21	27	36	26	M6	439.62	208
	HSK-A 100	10	120	24	32	41	31	M8x1	439.62	210
	HSK-A 100	12	120	24	32	47	37	M10x1	439.62	212
	HSK-A 100	14	120	27	34	47	37	M10x1	439.62	214
	HSK-A 100	16	120	27	34	50	40	M12x1	439.62	216
	HSK-A 100	18	120	33	42	50	40	M12x1	439.62	218
	HSK-A 100	20	120	33	42	52	42	M16x1	439.62	220
	HSK-A 100	25	120	44	53	58	48	M16x1	439.62	225
extra-long	HSK-A 100	6	160	21	27	36	26	M5	505.19	306
	HSK-A 100	8	160	21	27	36	26	M6	505.19	308
	HSK-A 100	10	160	24	32	41	31	M8x1	505.19	310
	HSK-A 100	12	160	24	32	47	37	M10x1	505.19	312
	HSK-A 100	14	160	27	34	47	37	M10x1	505.19	314
	HSK-A 100	16	160	27	34	50	40	M12x1	505.19	316
	HSK-A 100	18	160	33	42	50	40	M12x1	505.19	318
	HSK-A 100	20	160	33	42	52	42	M16x1	505.19	320
	HSK-A 100	25	160	44	53	58	48	M16x1	505.19	325
	HSK-A 100	32	160	44	53	62	52	M16x1	505.19	332

→ Min. clamping depth, Page 300



Stop screw IK

83 950 ...

Spare parts
DCONWS

	£	
	Y7	
6	M5x12,5 - SW2,5	19.83 418
8	M6x12,5 - SW3	19.83 419
10	M8x1x13,5 - SW3	19.83 420
12 - 14	M10x1x13,5 - SW5	19.83 421
16 - 18	M12x1x13,5 - SW5	19.83 422
20 - 32	M16x1x13,5 - SW8	22.87 424

Accessories

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

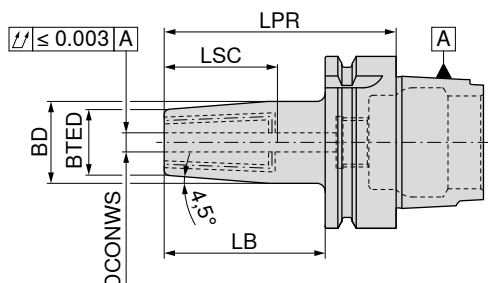
Shrink fit adapters 4.5°

- ▲ 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 ...

£
Y8

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LB mm	LSC mm		
								£	
short	HSK-A 63	6	80	21	26	54	36,5	391.07	606
	HSK-A 63	8	80	21	26	54	36,5	391.07	608
	HSK-A 63	10	85	24	30	59	41,5	391.07	610
	HSK-A 63	12	90	24	30	64	46,5	391.07	612
	HSK-A 63	14	90	27	34	64	46,5	391.07	614
	HSK-A 63	16	95	27	34	69	49,5	391.07	616
	HSK-A 63	18	95	33	41	69	49,5	391.07	618
	HSK-A 63	20	100	33	41	74	51,5	391.07	620
	HSK-A 63	25	115	44	52	89	57,5	409.38	625
	HSK-A 63	32	120	44	52	94	61,5	545.91	632
	HSK-A 100	6	85	21	26	56	36,5	551.23	106
	HSK-A 100	8	85	21	26	56	36,5	551.23	108
	HSK-A 100	10	90	24	30	56	41,5	551.23	110
	HSK-A 100	12	95	24	30	66	46,5	551.23	112
	HSK-A 100	14	95	27	34	66	46,5	551.23	114
	HSK-A 100	16	100	27	34	71	49,5	551.23	116
	HSK-A 100	18	100	33	42	71	49,5	551.23	118
	HSK-A 100	20	105	33	42	76	51,5	551.23	120
	HSK-A 100	25	115	44	53	86	57,5	569.39	125
	HSK-A 100	32	120	44	53	91	61,5	587.83	132

→ Min. clamping depth, Page 300



Stop screw IK



Sealing screw

Spare parts

DCONWS

		£ W7		£ W7	
6	M5x0,8x14	9.02	402	M3x6	1.91
8	M6x1x16	9.02	403	M3x6	1.91
10	M8x1x20	10.16	404		
12 - 18	M10x1x20	11.34	405		
20 - 32	M12x1x20	11.64	406		



Sealing screw for closing of two additional coolant holes.

Accessories

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

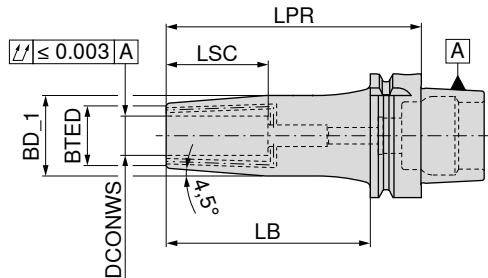
Shrink fit adapters 4.5°

- ▲ 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} 25000 G 2,5 n_{max} 25000

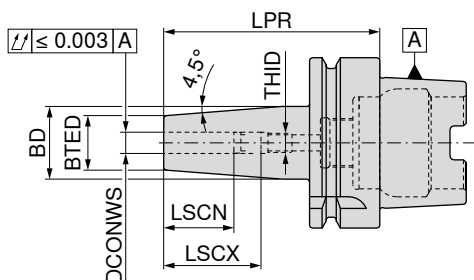
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	84 720 ...		84 723 ...	
								£ Y8		£ Y8	
medium length	HSK-A 63	6	130	21	27	104	36.5	545.91	606		
	HSK-A 63	8	130	21	27	104	36.5	545.91	608		
	HSK-A 63	10	130	24	32	104	41.5	545.91	610		
	HSK-A 63	12	130	24	32	104	46.5	545.91	612		
	HSK-A 63	14	130	27	34	104	46.5	545.91	614		
	HSK-A 63	16	130	27	34	104	49.5	545.91	616		
	HSK-A 63	18	130	33	41	104	49.5	545.91	618		
	HSK-A 63	20	130	33	41	104	51.5	545.91	620		
	HSK-A 100	6	130	21	27	101	36.5	747.84	106		
	HSK-A 100	8	130	21	27	101	36.5	747.84	108		
	HSK-A 100	10	130	24	32	101	41.5	747.84	110		
	HSK-A 100	12	130	24	32	101	46.5	747.84	112		
	HSK-A 100	14	130	27	34	101	46.5	747.84	114		
	HSK-A 100	16	130	27	34	101	49.5	747.84	116		
	HSK-A 100	18	130	33	41	101	49.5	747.84	118		
	HSK-A 100	20	130	33	41	101	51.5	747.84	120		
extra-long	HSK-A 63	6	160	21	27	134	36.5			598.23	606
	HSK-A 63	8	160	21	27	134	36.5			598.23	608
	HSK-A 63	10	160	24	32	134	41.5			598.23	610
	HSK-A 63	12	160	24	32	134	46.5			598.23	612
	HSK-A 63	14	160	27	34	134	46.5			598.23	614
	HSK-A 63	16	160	27	34	134	49.5			598.23	616
	HSK-A 63	18	160	33	41	134	49.5			598.23	618
	HSK-A 63	20	160	33	41	134	51.5			598.23	620
	HSK-A 63	25	160	44	52	134	57.5			574.43	625
	HSK-A 100	6	160	21	27	131	36.5			818.62	106
	HSK-A 100	8	160	21	27	131	36.5			818.62	108
	HSK-A 100	10	160	24	32	131	41.5			818.62	110
	HSK-A 100	12	160	24	32	131	46.5			818.62	112
	HSK-A 100	14	160	27	34	131	46.5			818.62	114
	HSK-A 100	16	160	27	34	131	49.5			818.62	116
	HSK-A 100	18	160	33	41	131	49.5			818.62	118
	HSK-A 100	20	160	33	41	131	51.5			818.62	120
	HSK-A 100	25	160	44	53	131	57.5			818.62	125
	HSK-A 100	32	160	44	53	131	61.5			818.62	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		Y8	
short	HSK-A 63	3	80	10	15	22	12		202.04	10357
	HSK-A 63	4	80	15	22	26	16		202.04	10457
	HSK-A 63	5	80	15	22	30	20		202.04	10557
	HSK-A 63	6	80	21	27	36	26	M5	202.04	10657
	HSK-A 63	8	80	21	27	36	26	M6	202.04	10857
	HSK-A 63	10	85	24	32	41	31	M8x1	202.04	11057
	HSK-A 63	12	90	24	32	47	37	M10x1	202.04	11257
	HSK-A 63	14	90	27	34	47	37	M10x1	202.04	11457
	HSK-A 63	16	95	27	34	50	40	M12x1	202.04	11657
	HSK-A 63	18	95	33	42	50	40	M12x1	202.04	11857
	HSK-A 63	20	100	33	42	52	42	M16x1	202.04	12057
	HSK-A 63	25	115	44	53	58	48	M16x1	202.04	12557
long	HSK-A 63	3	120	10	20	12	12		326.21	20357
	HSK-A 63	4	120	15	22	16	16		318.47	20457
	HSK-A 63	5	120	15	22	20	20		318.47	20557
	HSK-A 63	6	120	21	27	36	26	M5	291.44	20657
	HSK-A 63	8	120	21	27	36	26	M6	291.44	20857
	HSK-A 63	10	120	24	32	41	31	M8x1	291.44	21057
	HSK-A 63	12	120	24	32	47	37	M10x1	291.44	21257
	HSK-A 63	14	120	27	34	47	37	M10x1	291.44	21457
	HSK-A 63	16	120	27	34	50	40	M12x1	291.44	21657
	HSK-A 63	18	120	33	42	50	40	M12x1	291.44	21857
	HSK-A 63	20	120	33	42	52	42	M16x1	291.44	22057
	HSK-A 63	25	120	44	53	58	48	M16x1	291.44	22557
extra-long	HSK-A 63	3	160	10	20	12	12		365.34	30357
	HSK-A 63	4	160	15	22	16	16		357.40	30457
	HSK-A 63	5	160	15	22	20	20		357.40	30557
	HSK-A 63	6	160	21	27	36	26	M5	326.21	30657
	HSK-A 63	8	160	21	27	36	26	M6	326.21	30857
	HSK-A 63	10	160	24	32	41	31	M8x1	326.21	31057
	HSK-A 63	12	160	24	32	47	37	M10x1	326.21	31257
	HSK-A 63	14	160	27	34	47	37	M10x1	326.21	31457
	HSK-A 63	16	160	27	34	50	40	M12x1	326.21	31657
	HSK-A 63	18	160	33	42	50	40	M12x1	326.21	31857
	HSK-A 63	20	160	33	42	52	42	M16x1	326.21	32057
	HSK-A 63	25	160	44	53	62	52	M16x1	326.21	32557

→ Min. clamping depth, Page 300



Stop screw IK

82 950 ...

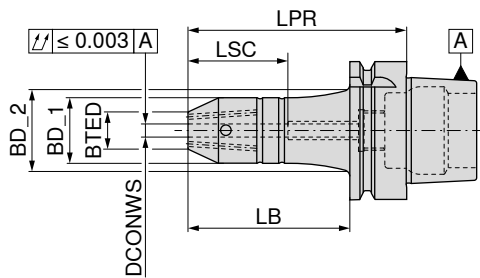
Spare parts

DCONWS

	£	
	Y8	
3 - 5	M6x16 - SW3	4.25 30100
6	M5x16 - SW2,5	3.99 30000
8	M6x16 - SW3	4.25 30100
10	M8x1x16 - SW4	4.52 30200
12 - 14	M10x1x14 - SW5	4.78 30300
16 - 18	M12x1x16 - SW6	5.05 30400
20 - 32	M16x1x16 - SW8	5.31 30500

Sidelock holder (Weldon)

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



	Adapter	DCONWS _{H5} mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000	
									£		£		£		£	
short	HSK-A 63	6	65	30	17	39	34		317.73	606	257.18	606 ¹⁾				
	HSK-A 63	8	65	32	20	39	34		317.73	608	257.18	608 ¹⁾				
	HSK-A 63	10	65	35	25	39	39		291.33	610	257.18	610 ¹⁾				
	HSK-A 63	12	80	42	30	54	44		291.33	612	263.43	612 ¹⁾				
	HSK-A 63	14	80	45	32	54	44		291.33	614	263.43	614 ¹⁾				
	HSK-A 63	16	80	48	36	54	47		291.33	616	263.43	616 ¹⁾				
	HSK-A 63	18	80	48	38	54	47		291.33	618	263.43	618 ¹⁾				
	HSK-A 63	20	80	52	40	54	49		291.33	620	263.43	620 ¹⁾				
	HSK-A 63	25	110	63	45	84	54		307.04	625	308.43	625 ¹⁾				
	HSK-A 63	32	110	72	52	84	58		343.72	632	308.43	632 ¹⁾				
	HSK-A 100	6	80	30	17	51	34		411.98	106						
	HSK-A 100	8	80	32	20	51	34		398.87	108						
	HSK-A 100	10	80	35	25	51	39		385.90	110						
	HSK-A 100	12	80	42	30	51	44		385.90	112						
	HSK-A 100	14	80	45	32	51	44		385.90	114						
	HSK-A 100	16	100	48	36	71	47		385.90	116						
	HSK-A 100	18	100	48	38	71	47		385.90	118						
	HSK-A 100	20	100	52	40	71	49		385.90	120						
	HSK-A 100	25	100	65	45	71	54		398.87	125						
	HSK-A 100	32	100	72	52	71	58		409.38	132						
	HSK-A 100	40	110	80	60	81	68		542.27	140						
long	HSK-A 63	6	100	30	17	74	34	36.2			362.28	606	273.02	606 ¹⁾		
	HSK-A 63	8	100	32	20	74	34	38.2			351.73	608	289.08	608 ¹⁾		
	HSK-A 63	10	100	35	25	74	39	41.2			351.73	610	263.43	610 ¹⁾		
	HSK-A 63	12	100	42	30	74	44				274.74	612	204.60	612 ¹⁾		
	HSK-A 63	14	100	45	32	74	44				274.74	614	204.60	614 ¹⁾		
	HSK-A 63	16	100	48	36	74	47				274.74	616	204.60	616 ¹⁾		
	HSK-A 63	18	100	48	38	74	47				274.74	618	204.60	618 ¹⁾		
	HSK-A 63	20	100	52	40	74	49				274.74	620	204.60	620 ¹⁾		

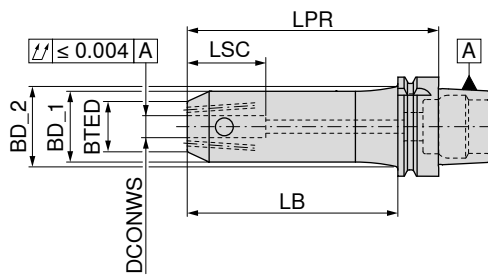
1) without threads for balancing screws



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

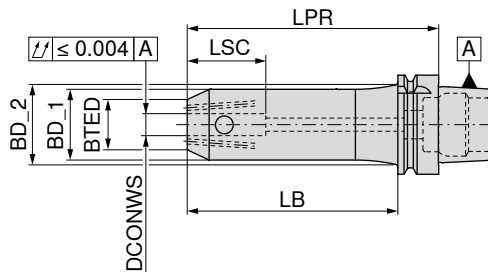
	Adapter	DCONWS mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	84 706 ...		84 708 ...	
									£ Y8		£ Y8	
medium length	HSK-A 63	6	130	30	17	104	34	36.2	317.61	606	224.08	606
	HSK-A 63	8	130	32	20	104	34	38.2	303.96	608	218.24	608
	HSK-A 63	10	130	35	25	104	39	41.2	303.96	610	218.24	610
	HSK-A 63	12	130	42	30	104	44	48.2	303.96	612	218.24	612
	HSK-A 63	14	130	45	32	104	44	50.5	303.96	614	218.24	614
	HSK-A 63	16	130	48	36	104	47	50.1	303.96	616	218.24	616
	HSK-A 63	18	130	48	38	104	47	50.1	303.96	618	218.24	618
	HSK-A 63	20	130	52	40	104	49		303.96	620	233.81	620
	HSK-A 63	25	130	63	45	104	54		467.65	625		
	HSK-A 63	32	130	72	52	104	58		467.65	632		



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**

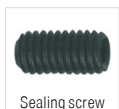
G 2,5 n_{max} 18000

84 707 ...

	Adapter	DCONWS _{H5} mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	£ Y8	
extra-long	HSK-A 63	6	160	30	17	134	34	36.2	435.60	606
	HSK-A 63	8	160	32	20	134	34	38.2	419.92	608
	HSK-A 63	10	160	35	25	134	39	41.2	419.92	610
	HSK-A 63	12	160	42	30	134	44	48.2	419.92	612
	HSK-A 63	14	160	45	32	134	44	50.5	419.92	614
	HSK-A 63	16	160	48	36	134	47	50.1	419.92	616
	HSK-A 63	18	160	48	38	134	47	50.1	419.92	618
	HSK-A 63	20	160	52	40	134	49		419.92	620
	HSK-A 63	25	160	63	45	134	54		419.92	625
	HSK-A 100	6	160	30	17	131	34	38.2	517.07	106
	HSK-A 100	8	160	32	20	131	34	40.2	498.62	108
	HSK-A 100	10	160	35	25	131	39	43.2	490.85	110
	HSK-A 100	12	160	42	30	131	44	50.2	490.85	112
	HSK-A 100	14	160	45	32	131	44	53.2	490.85	114
	HSK-A 100	16	160	48	36	131	47	56.2	490.85	116
	HSK-A 100	18	160	48	38	131	47	56.2	490.85	118
	HSK-A 100	20	160	52	40	131	49	60.2	490.85	120
	HSK-A 100	25	160	65	45	131	54	73.2	490.85	125
	HSK-A 100	32	160	72	52	134	58	79.5	490.85	132



Grubscrew



Sealing screw

Spare parts

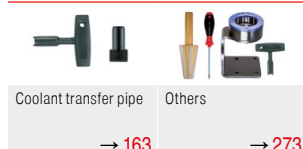
DCONWS_{H5}

6	M6x10	7.56	422	M3x6	1.91	411
8	M8x10	7.56	423	M3x6	1.91	411
10	M10x12	9.16	424	M3x6	1.91	411
12 - 14	M12x16	9.16	425	M3x6	1.91	411
16 - 18	M14x16	12.50	426	M3x6	1.91	411
20	M16x16	14.39	427	M3x6	1.91	411
25	M18x2x20	16.56	428	M4x8	1.91	412
32	M20x2x20	20.50	429	M4x8	1.91	412



Sealing screw for closing of two additional coolant holes.

Accessories



Coolant transfer pipe

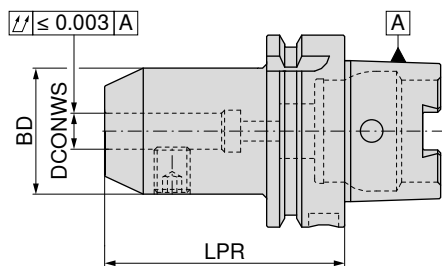
Others

→ 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**

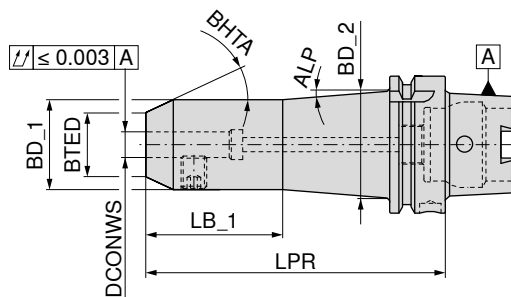


G 2,5 n_{max} 18000 G 2,5 n_{max} 18000 G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	81 736 ...		81 731 ...		81 730 ...	
					£ Y8		£ Y8		£ Y8	
short	HSK-A 32	6	60	25			271.07	306		
	HSK-A 32	8	60	28			261.05	308		
	HSK-A 32	10	65	35			261.05	310		
	HSK-A 32	12	75	42			261.05	312		
	HSK-A 32	16	75	48			261.05	316		
	HSK-A 40	6	60	25			261.05	406		
	HSK-A 40	8	60	28			251.18	408		
	HSK-A 40	10	65	34			251.18	410		
	HSK-A 40	12	70	42			251.18	412		
	HSK-A 40	16	80	48			251.18	416		
	HSK-A 40	20	80	52			251.18	420		
	HSK-A 50	6	65	25			276.17	506		
	HSK-A 50	8	65	28			261.05	508		
	HSK-A 50	10	65	35			261.05	510		
	HSK-A 50	12	80	42			261.05	512		
	HSK-A 50	16	80	48			261.05	516		
	HSK-A 50	20	80	52			261.05	520		
	HSK-A 50	25	105	65			281.25	525		
	HSK-A 50	32	120	72			281.25	532		
	HSK-A 63	6	65	25			276.17	606	352.57	606
	HSK-A 63	8	65	28			266.28	608	333.70	608
	HSK-A 63	10	65	35			266.28	610	333.70	610
	HSK-A 63	12	80	42			266.28	612	333.70	612
	HSK-A 63	14	80	44			266.28	614	333.70	614
	HSK-A 63	16	80	48			266.28	616	333.70	616
	HSK-A 63	18	80	50			266.28	618	333.70	618
	HSK-A 63	20	80	52			266.28	620	333.70	620
	HSK-A 63	25	110	65			291.28	625	352.57	625
	HSK-A 63	32	110	72			264.53	632	400.22	632
	HSK-A 63	40	125	80					441.60	640
	HSK-A 100	6	80	25			363.64	106	409.80	106
	HSK-A 100	8	80	28			353.09	108	395.41	108
	HSK-A 100	10	80	35			353.09	110	395.41	110
	HSK-A 100	12	80	42			353.09	112	395.41	112
	HSK-A 100	14	80	44			353.09	114	395.41	114
	HSK-A 100	16	100	48			353.09	116	386.49	116
	HSK-A 100	18	100	50			353.09	118	395.41	118
	HSK-A 100	20	100	52			353.09	120	395.41	120
	HSK-A 100	25	100	65			379.48	125	409.80	125
	HSK-A 100	32	100	72			390.03	132	428.81	132
	HSK-A 100	40	105	80			400.68	140	500.17	140
long	HSK-A 63	6	100	25	304.33	606				
	HSK-A 63	8	100	28	302.15	608				
	HSK-A 63	10	100	35	302.15	610				
	HSK-A 63	12	100	42	302.15	612				
	HSK-A 63	16	100	48	302.15	616				
	HSK-A 63	40	125	80	335.56	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°	£	
	HSK-A 63	8	160	28	37.9	20	50	3.5	25°	Y8	
	HSK-A 63	10	160	35	43.7	25	60	3.5	25°	361.44	606
	HSK-A 63	12	160	42		30			25°	361.44	608
	HSK-A 63	16	160	48		36			25°	361.44	610
	HSK-A 63	20	160	52		40			25°	361.44	612 ¹⁾
										361.44	616 ¹⁾
										371.46	620 ¹⁾
	HSK-A 100	6	160	25	45.2	15	50	7.5	25°	474.36	106
	HSK-A 100	8	160	28	48.7	20	50	7.5	25°	463.68	108
	HSK-A 100	10	160	35	51.2	25	65	7.5	25°	463.68	110
	HSK-A 100	12	160	42	59.5	30	60	7.5	25°	463.68	112
	HSK-A 100	16	160	48	62.9	36	70	7.5	25°	463.68	116
	HSK-A 100	20	160	52	69.6	40	60	7.5	25°	463.68	120
	HSK-A 100	25	160	65	77.5	45	80	7.5	45°	423.89	125

1) Cylindrical shank adapter



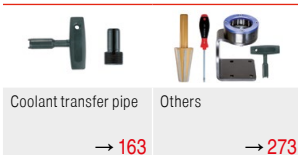
Grubscrew

62 950 ...

Spare parts

DCONWS _{H4}		£	
6	M6x10	0.91	006
8	M8x10	0.91	008
10	M10x12	1.75	010
12	M12x16	1.39	012
16	M14x16	1.71	016
20	M16x16	1.83	020
25	M18x2x20	3.53	025

Accessories



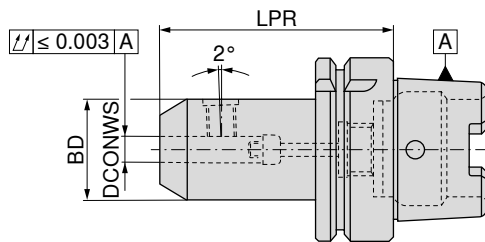
Coolant transfer pipe Others

→ 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	£ Y8	
short	HSK-A 63	6	80	25	291.28	606
	HSK-A 63	8	80	28	276.17	608
	HSK-A 63	10	80	35	276.17	610
	HSK-A 63	12	90	42	276.17	612
	HSK-A 63	14	90	44	276.17	614
	HSK-A 63	16	100	48	276.17	616
	HSK-A 63	18	100	50	276.17	618
	HSK-A 63	20	100	52	276.17	620
	HSK-A 63	25	110	65	301.13	625
	HSK-A 63	32	110	72	321.21	632
	HSK-A 100	6	90	25	374.15	106
	HSK-A 100	8	90	28	363.64	108
	HSK-A 100	10	90	35	363.64	110
	HSK-A 100	12	100	42	363.64	112
	HSK-A 100	14	100	44	363.64	114
	HSK-A 100	16	100	48	363.64	116
	HSK-A 100	18	100	50	363.64	118
	HSK-A 100	20	110	52	363.64	120
	HSK-A 100	25	120	65	390.03	125
	HSK-A 100	32	120	72	400.68	132
	HSK-A 100	40	120	80	411.06	140



Grubscrew



Stop screw IK

62 950 ...

81 950 ...

Spare parts DCONWS_{H4}

6	M6x10	0.91	006	M5x15	2.97	050
8	M8x10	0.91	008	M6x15	3.13	051
10	M10x12	1.75	010	M8x15	3.58	052
12 - 14	M12x16	1.39	012	M10x15	3.58	053
16 - 18	M14x16	1.71	016	M12x15	4.18	054
20	M16x16	1.83	020	M16x15	4.64	055
25	M18x2x20	3.53	025	M20x15	5.13	056
32	M20x2x20	3.69	032	M20x15	5.13	056
40	M20x2x20	3.69	032	M22x1.5x15	6.72	057

Accessories



Coolant transfer pipe

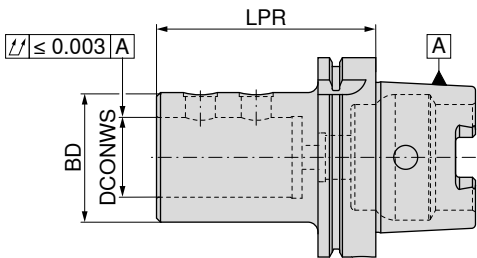
Others

→ 163

→ 273

Indexable insert drill adapter ISO 12164 HSK Form A

▲ also available with Balluff chip on request

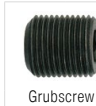


G 6,3 n_{max} 15000

10 842 ...

Adapter	DCONWS mm	LPR mm	BD mm	£	
HSK-A 63	20	80	40	2E/45	
HSK-A 63	25	90	45	166.86	320
HSK-A 63	32	90	52	166.86	325
HSK-A 63	40	110	65	166.86	332
				166.86	340
HSK-A 100	20	90	40	187.09	420
HSK-A 100	25	100	45	187.09	425
HSK-A 100	32	100	52	187.09	432
HSK-A 100	40	110	65	187.09	440
HSK-A 100	50	120	75	187.09	450

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



Grubscrew

10 950 ...

Spare parts	£	
DCONWS	2A/28	
20	M10x1x10	3.66 001
25 - 32	M12x1x10	3.66 002
40 - 50	M16x1x12	3.66 003

Accessories



Coolant transfer pipe

Others

→ 163

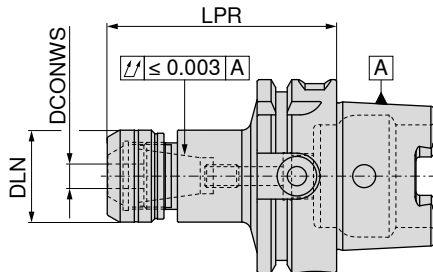
→ 273

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 ...

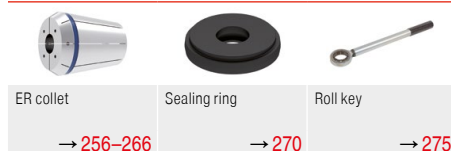
Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	£ Y8	
HSK-A 63	1 - 10	75	30	426E (ER16)	40 / 2-70	233.81	11057
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70	245.58	21057
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160	233.81	11657
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160	245.58	21657
HSK-A 63	2 - 20	75	50	470E (ER32)	125 / 15-250	233.81	12057
HSK-A 63	2 - 20	100	50	470E (ER32)	125 / 15-250	245.58	22057
HSK-A 100	2 - 16	100	40	430E (ER25)	80 / 10-160	406.78	21655
HSK-A 100	2 - 16	160	40	430E (ER25)	80 / 10-160	545.23	41655
HSK-A 100	2 - 20	100	50	470E (ER32)	125 / 15-250	406.78	22055
HSK-A 100	2 - 20	160	50	470E (ER32)	125 / 15-250	545.23	42055



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

	Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
	82 950 ...	82 950 ...	82 950 ...	82 950 ...
	£ Y8	£ Y8	£ Y8	£ Y8
Spare parts for collet				
426E (ER16)	68.07 11000	64.14 01000		M8X3,0 6.41 00100
430E (ER25)	68.07 11600	64.14 01600	M18x1,5 8.72 00200	M8x8 6.41 00300
470E (ER32)	68.07 12000	64.14 02000	M18x1,5 8.72 00200	M8x8 6.41 00300

Accessories



→ 256-266

→ 270

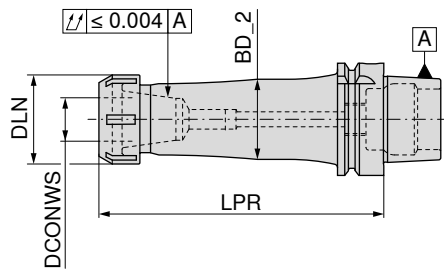
→ 275

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

	Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	TQX Nm	for collet	84 726 ...		84 732 ...		84 738 ...	
								£ Y8		£ Y8		£ Y8	
long	HSK-A 63	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	348.98	610				
	HSK-A 63	1 - 16	100	42	37	24 - 104	430E (ER25)	399.92	616				
	HSK-A 63	2 - 20	100	50	45	24 - 136	470E (ER32)	434.92	620				
	HSK-A 63	3 - 26	100	63	52	176	472E (ER40)	506.57	626				
	HSK-A 100	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	446.29	110				
	HSK-A 100	1 - 16	100	42	37	24 - 104	430E (ER25)	498.62	116				
	HSK-A 100	2 - 20	100	50	45	24 - 136	470E (ER32)	535.38	120				
	HSK-A 100	3 - 26	100	63	56	176	472E (ER40)	569.39	126				
extra-long	HSK-A 63	1 - 10	160	22	27	8 - 56	426E (ER16 mini)					425.26	610
	HSK-A 63	1 - 16	160	42	37	24 - 104	430E (ER25)					496.02	616
	HSK-A 63	2 - 20	160	50	45	24 - 136	470E (ER32)					504.93	620
	HSK-A 63	3 - 26	160	63	52	176	472E (ER40)					551.23	626
	HSK-A 100	1 - 10	200	22	27	8 - 56	426E (ER16 mini)					737.48	110
	HSK-A 100	1 - 16	200	42	37	24 - 104	430E (ER25)					737.48	116
	HSK-A 100	2 - 20	200	50	45	24 - 136	470E (ER32)					768.74	120
	HSK-A 100	3 - 26	200	63	56	176	472E (ER40)					831.74	126
	HSK-A 100	1 - 10	160	22	27	8 - 56	426E (ER16 mini)			535.38	110		
	HSK-A 100	1 - 16	160	42	37	24 - 104	430E (ER25)			587.83	116		
	HSK-A 100	2 - 20	160	50	45	24 - 136	470E (ER32)			624.44	120		
	HSK-A 100	3 - 26	160	63	56	176	472E (ER40)			677.10	126		

	Lock nut IK		Lock nut		Y clamping key		ER Mini clamping key		Mini lock nut		Mini IK		Stop screw IK	
	£ Y8		£ W7		£ Y8		£ Y8		£ W7		£ Y8		£ W7	
Spare parts for collet														
426E (ER16 mini)							37.35	101	35.07	066	84.36	058	9.02	403
430E (ER25)	79.92	055	22.08	055	23.31	125								
470E (ER32)	85.48	056	22.64	056	33.95	132								
472E (ER40)	102.87	057	23.45	057	38.47	140								

Accessories

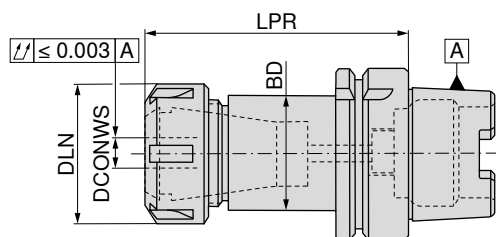
ER collet	Coolant transfer pipe	Others
→ 256-266	→ 163	→ 273

ER-Collet chuck

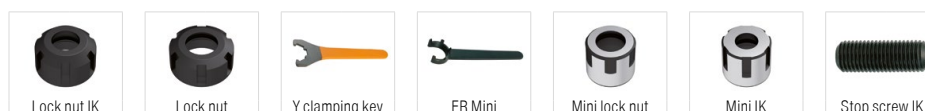
▲ also available with Balluff chip on request

Scope of supply:

Toolholder with lock nut and adjustable backstop



	Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	TQX Nm	for collet	G 2,5 n _{max} 18000		G 2,5 n _{max} 18000	
								£ Y8		£ Y8	
short	HSK-A 32	1 - 10	65	22	19	8 - 56	426E (ER16 mini)	281.25	316		
	HSK-A 32	1 - 16	70	35	30	24 - 104	430E (ER25 mini)	281.25	325		
	HSK-A 40	1 - 10	70	22	22	8 - 56	426E (ER16 mini)	266.28	416		
	HSK-A 40	1 - 16	80	42	35	24 - 104	430E (ER25)	261.05	425		
	HSK-A 50	1 - 10	80	22	22	8 - 56	426E (ER16 mini)	271.07	516		
	HSK-A 50	1 - 16	95	42	42	24 - 104	430E (ER25)	266.28	525		
long	HSK-A 40	2 - 20	100	50	40	24 - 136	470E (ER32)	271.07	432		
	HSK-A 50	2 - 20	100	50	50	24 - 136	470E (ER32)	271.07	532		
	HSK-A 63	1 - 10	100	22	19	8 - 56	426E (ER16 mini)	230.55	616		
	HSK-A 63	1 - 16	100	42	32	24 - 104	430E (ER25)	271.07	625		
	HSK-A 63	2 - 20	100	50	50	24 - 136	470E (ER32)	281.25	632		
	HSK-A 100	1 - 16	100	42	42	24 - 104	430E (ER25)	350.37	125		
medium length	HSK-A 100	2 - 20	100	50	50	24 - 136	470E (ER32)	368.98	132		
	HSK-A 40	1 - 16	120	35	35	24 - 104	430E (ER25 mini)			341.37	425
	HSK-A 63	2 - 26	120	63	50	176	472E (ER40)	296.21	640		
	HSK-A 100	3 - 26	120	63	50	176	472E (ER40)	395.20	140		
	HSK-A 63	2 - 20	160	50	50	24 - 136	470E (ER32)			381.61	632
	HSK-A 63	3 - 26	160	63	63	176	472E (ER40)			391.49	640
extra-long	HSK-A 100	1 - 16	160	42	42	24 - 104	430E (ER25)			455.31	125
	HSK-A 100	2 - 20	160	50	50	24 - 136	470E (ER32)			469.02	132
	HSK-A 100	3 - 26	160	63	63	176	472E (ER40)			490.09	140
	HSK-A 100	3 - 26	160	63	63	176	472E (ER40)				

Spare parts
for collet

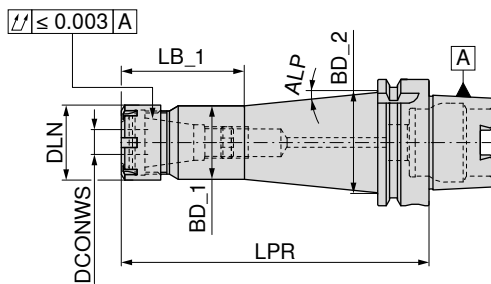
	£ Y8		£ W7		£ Y8		£ Y8		£ W7		£ Y8		£ Y8	
426E (ER16 mini)							37.35	101	35.07	066	84.36	058	3.58	053
430E (ER25 mini)							36.77	103	58.40	069	95.01	060	4.64	055
430E (ER25)	79.92	055	22.08	055	23.31	125							4.64	055
470E (ER32)	85.48	056	22.64	056	33.95	132							6.72	057
472E (ER40)	102.87	057	23.45	057	38.47	140							6.72	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	£ Y8	
medium length	HSK-A 40	1 - 10	120	22	22	29.15	47	4°	8 - 56	426E (ER16 mini)	341.37	416
extra-long	HSK-A 63	1 - 10	160	22	22	35.00	57	5°	8 - 56	426E (ER16 mini)	391.49	616
	HSK-A 63	1 - 16	160	35	35	46.10	68	5°	24 - 104	430E (ER25 mini)	381.61	625

	Lock nut IK	Lock nut	Y clamping key	ER Mini clamping key	Mini lock nut	Mini IK	Stop screw IK
Spare parts for collet	£ Y8	£ W7	£ Y8	£ Y8	£ W7	£ Y8	£ Y8
426E (ER16 mini)	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	81 950 ...
430E (ER25 mini)				37.35	35.07	84.36	3.58
430E (ER25)				36.77	58.40	95.01	4.64
470E (ER32)	79.92	22.08	23.31				4.64
470E (ER32)	85.48	22.64	33.95				6.72
472E (ER40)	102.87	23.45	38.47				6.72
	055	055	125	101	066	058	053
	057	057	140	103	069	060	055
							057

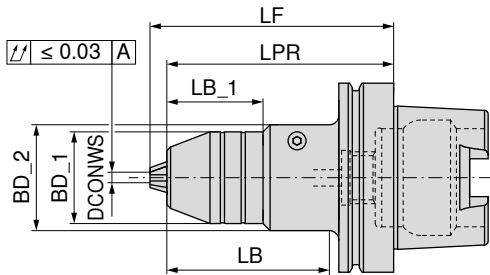
Accessories

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

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

84 716 ...

£

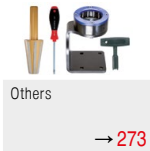
Y8

575.94 613
608.43 616

818.32 113
855.68 116

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

Accessories



Others

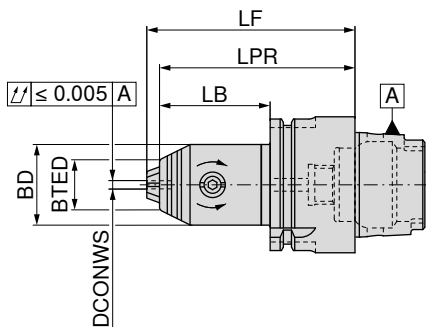
→ 273

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

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

84 710 ...

£
Y7

1,195.60	334
1,288.93	434
1,334.33	534

Spare parts
for Article no.

84 710 334
84 710 434
84 710 534

TORX® blade

80 950 ...

£
Y7

9.42	152
9.42	152
9.42	152

1,8 Nm
1,8 Nm
1,8 Nm

Torque
screwdriver

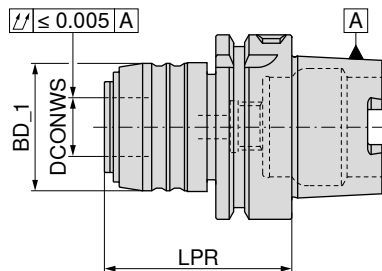
80 021 ...

£
Y7

122.33	018
122.33	018
122.33	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	£ Y8	
HSK-A 63	M3 - M12	1	20	64	43	1,0 / 0,2	360.42	612
HSK-A 63	M6 - M20	2	32	97	60	1,0 / 0,2	448.29	620
HSK-A 100	M3 - M12	1	20	70	43	1,0 / 0,2	569.39	112
HSK-A 100	M6 - M20	2	32	91	60	1,0 / 0,2	673.86	120

Accessories



Coolant transfer pipe

Others

→ 163

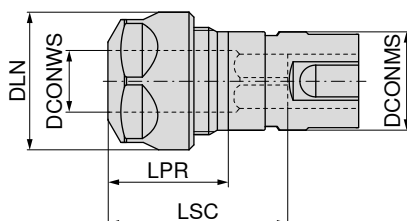
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



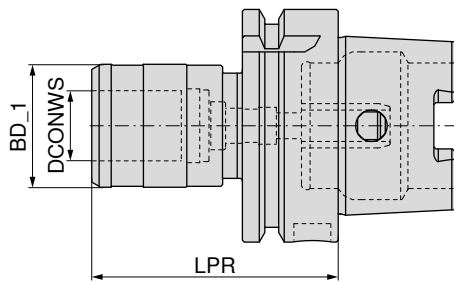
								83 608 ...	
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	£ Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	195.17	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	227.34	020

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.	£ W7			£ Y8			£ W7			£ Y8		
83 608 012	M22x1,5 - SW25	26.65	044	M22x1,5	68.61	054				23.31		116
83 608 020				M32x1,5	79.92	055	M32x1,5	22.08	055	23.31		125

Quick change tap chuck with length compensation

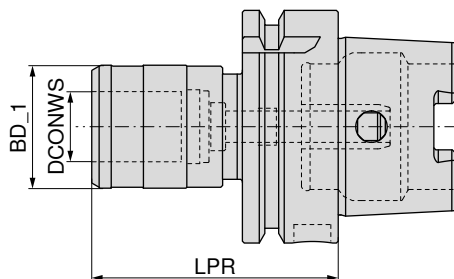
- ▲ With length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip **on request**



						83 712 ...	
Adapter	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	£ Y8	
HSK-A 63	01	72	41	19	7,5	792.24	612
HSK-A 63	02	110	60	31	10	921.26	620
HSK-A 100	01	80	41	19	7,5	1,336.44	112
HSK-A 100	02	100	60	31	10	1,174.76	120

Quick change tap chuck without length compensation

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



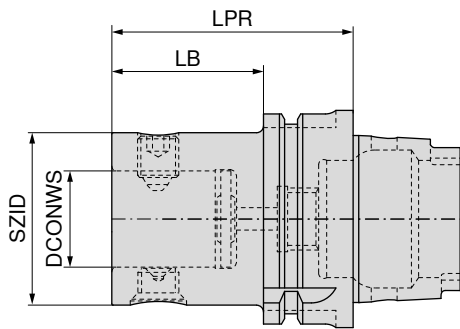
						83 710 ...	
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	£ Y8	
HSK-A 63	M3 - M12	01	63	33	19	533.72	612
HSK-A 63	M6 - M20	02	89	50	31	673.86	620
HSK-A 100	M3 - M12	01	69	33	19	668.40	112
HSK-A 100	M6 - M20	02	92	50	31	822.29	120

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	LPR	LB		
			mm	mm	mm		
HSK-A 63	A06 30120	ABS 25	13	50	24	768.63	06390
HSK-A 63	A06 30130	ABS 32	16	50	24	768.63	06389
HSK-A 63	A06 30140	ABS 40	20	60	34	789.93	06388
HSK-A 63	A06 30150	ABS 50	28	70	44	378.19	06397
HSK-A 63	A06 30160	ABS 63	34	80	54	821.87	06396
HSK-A 63	A06 30170	ABS 80	46	100	74	873.05	06392
HSK-A 100	A06 50120	ABS 25	13	60	31	936.94	10090
HSK-A 100	A06 50130	ABS 32	16	60	31	936.94	10089
HSK-A 100	A06 50140	ABS 40	20	80	51	956.18	10088
HSK-A 100	A06 50150	ABS 50	28	80	51	454.65	10097
HSK-A 100	A06 50160	ABS 63	34	80	51	1,000.82	10096
HSK-A 100	A06 50170	ABS 80	46	90	61	1,045.45	10092
HSK-A 100	A06 50180	ABS 100	56	100	71	1,109.34	10091

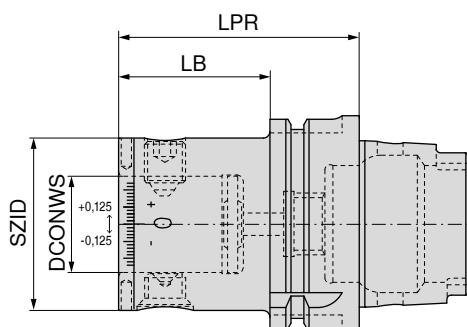
Eccentric adjuster with ABS Connection

▲ 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

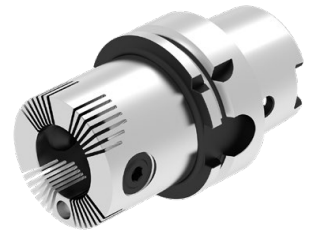
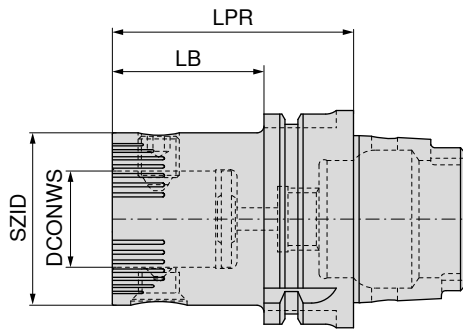


84 203 ...

Adapter	KOMET no.	SZID	DCONWS	LPR	LB		
			mm	mm	mm		
HSK-A 63	A06 36730	ABS 50	28	70.0	39.5	573.20	06397
HSK-A 100	A06 56730	ABS 50	28	75.5	46.5	651.36	10097
HSK-A 100	A06 56740	ABS 63	34	80.0	51.0	790.37	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	£ 3E	
HSK-A 63	A06 30251	ABS 50	28	70	44	676.01	06397
HSK-A 63	A06 30261	ABS 63	34	80	54	663.41	06396
HSK-A 63	A06 30270	ABS 80	46	100	74	931.63	06392
HSK-A 100	A06 50261	ABS 63	34	80	51	733.09	10096
HSK-A 100	A06 50251	ABS 50	28	80	51	792.17	10097
HSK-A 100	A06 50270	ABS 80	46	90	61	999.41	10092

Spare parts

SZID						
ABS 50	£	XX	8.63	20300	£	XX
ABS 63	£	XX	8.22	25500	£	XX
ABS 80	£	XX	10.10	25600	£	XX

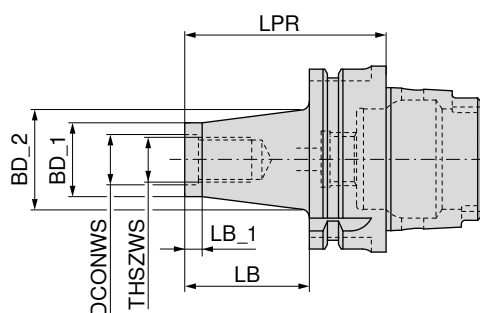
Accessories

		
Coolant transfer pipe	Extension	Others
→ 163	→ 193	→ 273

		
Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...
£	£	£
XX	XX	XX
8.63	19.57	10.97
20300	99800	20400
8.22	18.45	10.42
25500	99400	27300
10.10	22.38	12.30
25600	99300	25100

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 30000

56 714 ...

Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR
		mm	mm	mm	mm	mm	mm
HSK-A 63	M8	8.5	25	13.8	15	12	51
HSK-A 63	M8	8.5	50	13.8	23	12	76
HSK-A 63	M8	8.5	75	13.8	25	12	101
HSK-A 63	M8	8.5	100	13.8	30	12	126
HSK-A 63	M10	10.5	25	18.0	23	12	51
HSK-A 63	M10	10.5	50	18.0	25	12	76
HSK-A 63	M10	10.5	75	18.0	30	12	101
HSK-A 63	M10	10.5	100	18.0	35	12	126
HSK-A 63	M12	12.5	25	21.0	24	12	51
HSK-A 63	M12	12.5	50	21.0	30	12	76
HSK-A 63	M12	12.5	75	21.0	35	12	101
HSK-A 63	M12	12.5	100	21.0	38	12	126
HSK-A 63	M12	12.5	125	21.0	43	12	151
HSK-A 63	M12	12.5	150	21.0	45	12	176
HSK-A 63	M16	17.0	25	29.0	29	12	51
HSK-A 63	M16	17.0	50	29.0	34	12	76
HSK-A 63	M16	17.0	75	29.0	35	12	101
HSK-A 63	M16	17.0	100	29.0	40	12	126
HSK-A 63	M16	17.0	125	29.0	44	12	151
HSK-A 63	M16	17.0	150	29.0	48	12	176

£
WA

081
082
083
084

101
102
103
104

121
122
123
124
125
126

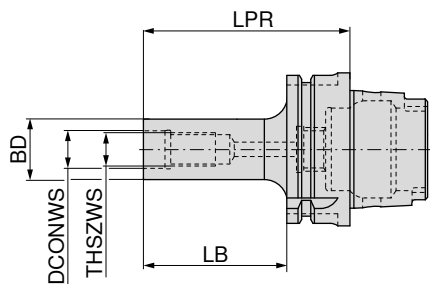
161
162
163
164
165
166

Accessories

Extension-Reduction set → 245	Coolant transfer pipe → 163	Others → 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 25000

Adapter	THSZWS	DCONWS	BD	LB	LPR
		mm	mm	mm	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

56 719 ...

£

WA

325.41

082

325.41

102

374.12

104

325.41

122

374.12

124

325.41

162

374.12

164

Accessories

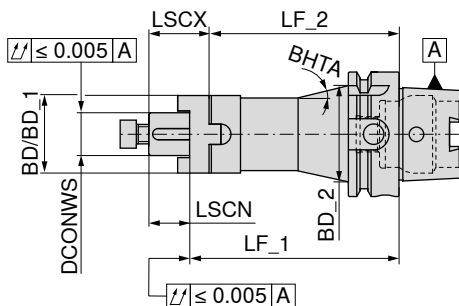
Extension-Reduction set	Coolant transfer pipe	Others
→ 245	→ 163	→ 273

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



	Adapter	DCONWS mm	LF_1 mm	LF_2 mm	BD mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	BHTA	G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000	
											£	Y8	£	Y8	£	Y8	£	Y8
short	HSK-A 63	16	60	50	32			27	17		276.30	616						
	HSK-A 63	22	60	48	40			31	19		282.26	622						
	HSK-A 63	27	60	48	48			33	21		294.45	627						
	HSK-A 63	32	60	46	53			38	24		304.05	632						
	HSK-A 63	40	70	56	70			41	27		309.70	640						
	HSK-A 100	16	60	50	32			27	17		400.24	116						
	HSK-A 100	22	60	48	40			31	19		405.28	122						
	HSK-A 100	27	60	48	48			33	21		410.30	127						
	HSK-A 100	32	60	46	58			38	24		425.26	132						
	HSK-A 100	40	70	56	70			41	27		435.17	140						
long	HSK-A 63	16	100	90	32			27	17						309.70	616		
	HSK-A 63	22	100	88	40			31	19						309.70	622		
	HSK-A 63	27	100	88	48			33	21						314.63	627		
	HSK-A 63	32	100	86	58			38	24						328.74	632		
	HSK-A 63	40	100	86	70			41	27						381.16	640		
extra-long	HSK-A 63	16	160	150		32	43.21	27	17	4.5°						347.63	616	
	HSK-A 63	22	160	148		40	47.25	31	19	3.0°						347.63	622	
	HSK-A 63	27	160	148	48			33	21							352.57	627	
	HSK-A 63	32	160	146	58			38	24							371.46	632	
	HSK-A 63	40	160	146	70			41	27							433.62	640	



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

Spare parts DCONWS								
		Parallel key		Drive ring		Retaining screw		
		83 950 ...		83 370 ...		81 950 ...		
		£		£		£		
		Y8		Y8		Y8		
16	4 x 4 x 20	3.45	284	12.74	116	M8x20 - 30 Nm	5.81	020
22	6 x 6 x 25	3.45	285	12.23	122	M10x30 - 50 Nm	6.69	021
27	7 x 7 x 25	5.48	286	15.26	127	M12x35 - 80 Nm	8.16	022
32	8 x 7 x 28	3.90	287	16.01	132	M16x40 - 110 Nm	10.37	023
40	10 x 8 x 32	4.60	288	26.96	140			

Accessories



→ 253

→ 163

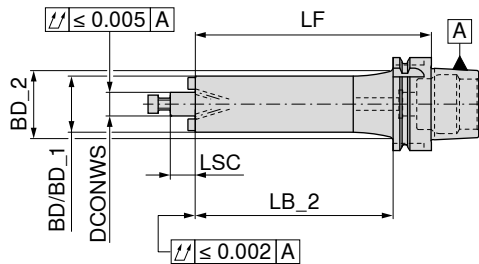
→ 273

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

										84 750 ...		84 754 ...		84 755 ...		84 757 ...		
	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	BD_1 mm	BD_2 mm	LSC mm		£ Y8		£ Y8		£ Y8		£ Y8		
short	HSK-A 63	16	34	60	38			17		348.98	616							
	HSK-A 63	22	34	60	48			19		362.28	622							
	HSK-A 63	27	34	60	58			21		385.90	627							
	HSK-A 63	32	34	60	72			24		406.80	632							
	HSK-A 63	40	34	70	80			27		419.92	640							
	HSK-A 100	16	31	60	38			17		419.92	116							
	HSK-A 100	22	31	60	48			19		435.60	122							
	HSK-A 100	27	31	60	58			21		451.34	127							
	HSK-A 100	32	31	60	72			24		469.78	132							
HSK-A 100	40	41	70	80			27		490.85	140								
long	HSK-A 63	16	74	100		38	44.3	17				385.90	616					
	HSK-A 63	22	74	100		48	50.3	19				398.87	622					
	HSK-A 63	27	74	100	58			21				419.92	627					
	HSK-A 63	32	74	100	72			24				440.82	632					
	HSK-A 63	40	74	100	80			27				456.67	640					
	HSK-A 100	16	71	100		38	46.3	17				469.78	116					
	HSK-A 100	22	71	100		48	56.3	19				490.85	122					
	HSK-A 100	27	71	100		58	66.3	24				509.12	127					
	HSK-A 100	32	71	100		72	80.3	24				527.45	132					
HSK-A 100	40	71	100	80			27				545.91	140						
medium length	HSK-A 63	16	104	130		38	44.3	17						509.10	616			
	HSK-A 63	22	104	130		48	50.3	19						509.10	622			
	HSK-A 63	27	104	130	58			21						539.55	627			
	HSK-A 63	32	104	130	72			24						539.55	632			
	HSK-A 63	40	104	130	80			27						564.45	640			
	HSK-A 100	16	101	130		38	46.3	17						542.30	116			
	HSK-A 100	22	101	130		48	56.3	19						564.45	122			
	HSK-A 100	27	101	130		58	66.3	21						600.43	127			
	HSK-A 100	32	101	130		72	80.3	24						608.72	132			
HSK-A 100	40	101	130	80			27						639.16	140				
extra-long	HSK-A 63	16	134	160		38	44.3	17								427.86	616	
	HSK-A 63	22	134	160		48	50.3	19								446.29	622	
	HSK-A 63	27	134	160	58			21								461.86	627	
	HSK-A 63	32	134	160	72			24								480.32	632	
	HSK-A 63	40	134	160	80			27								498.62	640	
	HSK-A 100	16	131	160		38	46.3	17								535.38	116	
	HSK-A 100	22	131	160		48	56.3	19								545.91	122	
	HSK-A 100	27	131	160		58	66.3	21								561.60	127	
	HSK-A 100	32	131	160		72	80.3	24								577.31	132	
HSK-A 100	40	131	160	80			27								600.97	140		

Spare parts facemill adapters

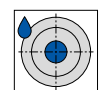
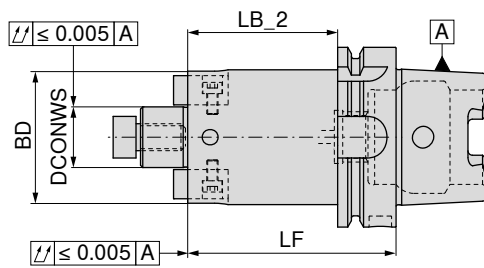
					
		83 950 ...	62 950 ...	62 950 ...	83 950 ...
Spare parts		£	£	£	£
DCONWS		Y8	W7	W7	Y8
16	4 x 4 x 20	3.45	23.40	57.82	5.93
22	6 x 6 x 25	3.45	23.40	66.54	6.70
27	7 x 7 x 25	5.48	23.40	73.51	7.40
32	8 x 7 x 28	3.90	23.40	90.79	9.02
40	10 x 8 x 32	4.60	23.40	119.98	9.94
		284	442	433	113
	M4x15		23.40		
	M5x17		23.40		
	M6x21		23.40		
	M6x22		23.40		
	M6x23		23.40		
	M8x16 - SW6			433	
	M10x18 - SW8			434	
	M12x20 - SW10			435	
	M16x26 - SW12			436	
	M20x30 - SW14			437	
	M8x25				113
	M10x25				124
	M12x30				125
	M16x35				126
	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 £ Y8	G 2,5 n _{max} 18000 £ Y8	G 2,5 n _{max} 18000 £ Y8	G 2,5 n _{max} 18000 £ Y8	G 2,5 n _{max} 18000 £ Y8
short	HSK-A 63	16	24	50	38	359.53	216	229.09	616	
	HSK-A 63	22	24	50	48	365.49	222	233.88	622	
	HSK-A 63	27	34	60	58	385.11	227	245.95	627	
	HSK-A 63	32	34	60	78	391.92	232	255.95	632	
	HSK-A 63	40	34	60	88	357.50	240 ¹⁾	275.43	640 ¹⁾	
	HSK-A 100	16	21	50	38		385.31			116
	HSK-A 100	22	21	50	48		395.20			122
	HSK-A 100	27	21	50	58		405.28			127
	HSK-A 100	32	21	50	78		420.21			132
	HSK-A 100	40	31	60	88		440.20			140 ¹⁾
long	HSK-A 100	60	41	70	129		455.00			160 ²⁾
	HSK-A 63	16	74	100	38			321.21	616	381.16
	HSK-A 63	22	74	100	48			326.26	622	381.16
	HSK-A 63	27	74	100	58			331.36	627	404.99
	HSK-A 63	32	74	100	78			331.36	632	404.99
	HSK-A 63	40	74	100	88			346.33	640 ¹⁾	423.89

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			Y8		Y8		Y8	
16	21.07	116	M8	5.60	016	M8x20 - 30 Nm	5.81	020
22	26.21	122	M10	6.23	022	M10x30 - 50 Nm	6.69	021
27	30.81	127	M12	7.96	027	M12x35 - 80 Nm	8.16	022
32	42.00	132	M16	12.50	032	M16x40 - 110 Nm	10.37	023
40	41.71	140	M20	13.38	040			
60								

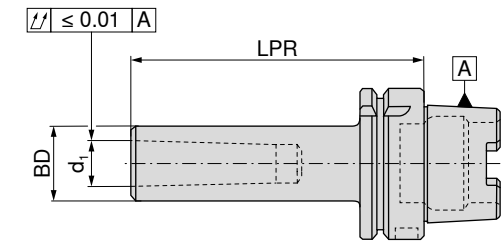
						
			drive dogs		Drive screw	
			81 950 ...		81 950 ...	
Spare parts			£		£	
DCONWS			Y8		Y8	
16	8x8x14	14.34	001	M3x8	1.02	010
22	10x10x17	14.81	002	M4x8	1.33	011
27	12x14x20	16.33	003	M4x14	1.37	012
32	14x14x22	16.15	004	M5x13	1.54	013
40	15,9x16x21	23.03	005	M6x16	1.69	014
60	25,4x25x31	30.40	006	M12x25	8.18	015

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 ...

£

Y8

Adapter	d ₁	LPR mm	BD mm		
HSK-A 63	MK1	100	25	261.05	601
HSK-A 63	MK2	120	32	271.07	602
HSK-A 63	MK3	140	40	281.25	603
HSK-A 63	MK4	160	48	321.21	604
HSK-A 100	MK1	110	25	322.13	101
HSK-A 100	MK2	120	32	337.26	102
HSK-A 100	MK3	150	40	347.93	103
HSK-A 100	MK4	170	48	379.48	104
HSK-A 100	MK5	200	63	460.20	105

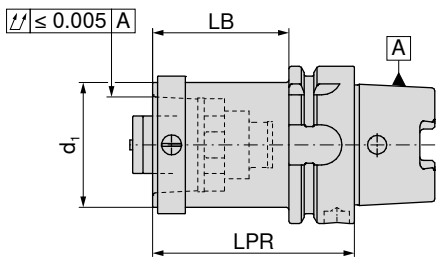
Accessories

		
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



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

84 040 ...

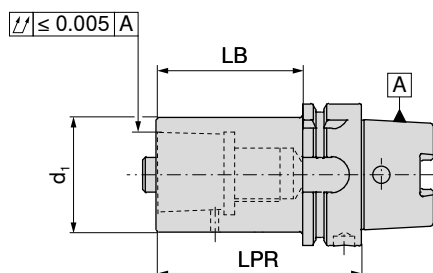
£	
Y8	
937.25	06359
954.83	06358
1,111.51	10058
1,111.51	10057

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



NEW



Adapter	d ₁	LB mm	LPR mm
HSK-A 63	PSC 32	49	75
HSK-A 63	PSC 40	54	80
HSK-A 63	PSC 50	64	90
HSK-A 100	PSC 32	51	80
HSK-A 100	PSC 40	61	90
HSK-A 100	PSC 50	71	100
HSK-A 100	PSC 63	81	110
HSK-A 100	PSC 80	91	120

84 013 ...

£

Y8

484.41	06387
519.37	06395
519.37	06394

571.35	10087
588.74	10095
606.12	10094
693.44	10093
745.79	10086

Spare parts

d₁

d ₁	£		84 950 ...	£		84 950 ...
PSC 32	41.15	127	SW8	29.87	122	
PSC 40	41.15	128	SW8	33.67	123	
PSC 50	41.15	129	SW10	33.67	124	
PSC 63	82.16	130	SW14	37.47	126	
PSC 80	82.16	130	SW14	37.47	126	



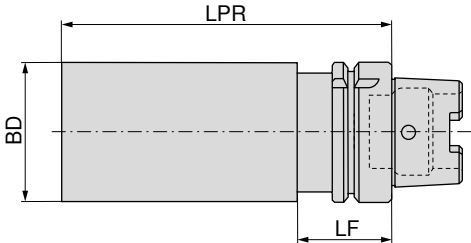
Threaded ring



tightening screw

Blank

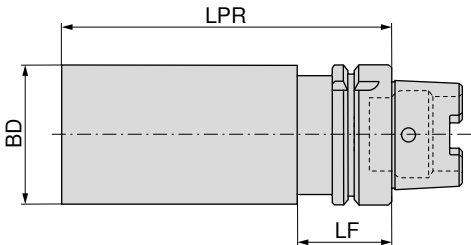
- ▲ Material: 20NiCrMo2
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Tool 35^{±3} HRC
- ▲ also available with Balluff chip **on request**



				81 745 ...	
Adapter	BD mm	LPR mm	LF mm	£ Y8	
HSK-A 32	35.0	150	35	190.88	335
HSK-A 40	40.0	150	35	200.78	440
HSK-A 40	52.0	200	35	220.96	452
HSK-A 50	52.0	200	42	240.84	552
HSK-A 50	63.0	200	42	240.84	563
HSK-A 63	63.0	200	42	251.18	663
HSK-A 63	80.0	250	42	281.25	680
HSK-A 100	63.0	200	45	316.21	163
HSK-A 100	80.0	250	45	368.98	180
HSK-A 100	97.5	250	45	453.17	190

Blank

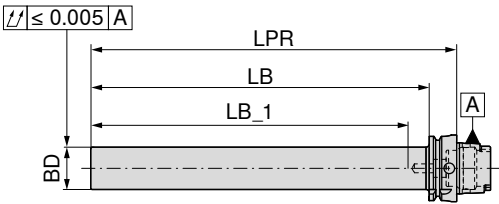
- ▲ For the production of special tools
- ▲ Material: case hardened steel 16MnCr5
- ▲ Taper hardened and ground
- ▲ Tool production area = soft
- ▲ also available with Balluff chip **on request**



				84 799 ...	
Adapter	BD mm	LPR mm	LF mm	£ Y8	
HSK 63	63	200	42	234.73	663
HSK 63	80	250	42	268.93	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

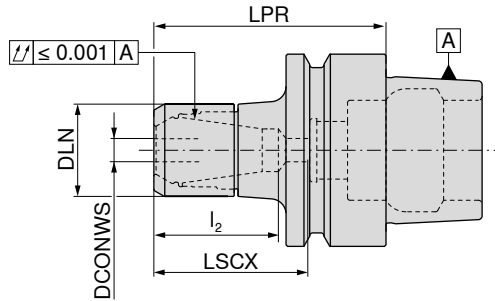
81 746 ...	
£	
Y8	
583.98	063
745.73	100

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 ...

£

Y8

371.11 417

408.32 516

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

→ 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



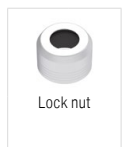
Lock nut IK

84 950 ...

£

Y8

85.18 013



Lock nut

84 950 ...

£

Y8

63.06 003

Spare parts for collet

430E (ER25)

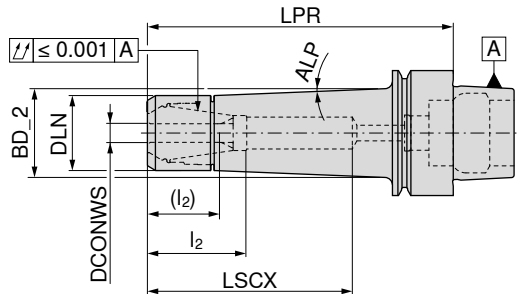
Accessories

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	£ Y8	
short	HSK-E 25	1 - 7	35	16		22			4008E (ER11 mini)	249.62	07200
	HSK-E 32	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	334.08	307
	HSK-E 40	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	273.12	407
	HSK-E 25	1 - 10	45	22		30			426E (ER16 mini)	234.72	101
	HSK-E 32	1 - 10	55	22	25,8	40	28 - 32 (12 - 22)	4,5°	426E (ER16 mini)	334.08	310
	HSK-E 40	1 - 10	55	22	25,8	38	28 - 30 (12 - 20)	4,5°	426E (ER16 mini)	260.05	410
	HSK-E 50	1 - 10	60	22	25,4	39	28 - 31 (12 - 21)	4,5°	426E (ER16 mini)	251.25	510
long	HSK-E 40	1 - 7	100	16	25,4	64	18 - 36 (12 - 26)	4,5°	4008E (ER11 mini)	334.08	408
	HSK-E 40	1 - 10	100	22	29,0	66	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	298.17	411
	HSK-E 50	1 - 10	100	22	28,2	72	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	308.36	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)	£ Y8		£ Y8		£ Y8		£ Y8	
426E (ER16 mini)	77.19	035	79.26	041	45.18	340	30.09	336
			63.32	034	47.40	341	31.75	337

	Mini lock nut		
84 950 ...	84 950 ...	83 950 ...	83 950 ...
£ Y8	£ Y8	£ Y8	£ Y8

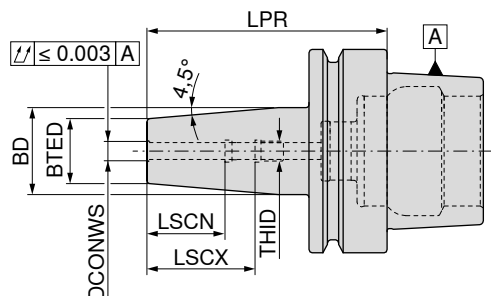
Accessories

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 ...

£

£

£

Y8

Y8

Y8

236.20

236.20

236.20

214.24

214.24

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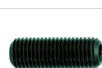
118

120

118

120

→ Min. clamping depth, Page 300



Stop screw IK

Thro' coolant
back stop screw

Stop screw IK

83 950 ...

83 950 ...

83 950 ...

£

£

£

Y7

Y7

Y7

Spare parts
DCONWS

3 - 5

6

8

10

12 - 14

16 - 18

20

M6x14 - SW2

M5x14 - SW2

M5x12,5 - SW2,5

M6x12,5 - SW3

M8x1x13,5 - SW3

M10x1x13,5 - SW5

M12x1x13,5 - SW5

M16x1x13,5 - SW5

19.83

417

19.83

411

19.83

421

19.83

422

19.83

423

22.87

418

419

420

421

422

423

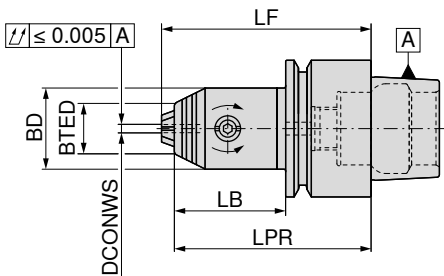
1 Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

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		

£
Y7

1,140.12 234

1,230.90 334

1,276.31 434

Spare parts
for Article no.

84 712 234	£ Y7	9.42	152	1,8 Nm	£ Y7	122.33	018
84 712 334	£ Y7	9.42	152	1,8 Nm	£ Y7	122.33	018
84 712 434	£ Y7	9.42	152	1,8 Nm	£ Y7	122.33	018

TORX® blade

80 950 ...

£
Y7

9.42 152

Torque
screwdriver

80 021 ...

£
Y7

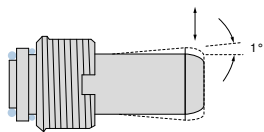
122.33 018

Coolant pipe

▲ use up to 100 bar

Scope of supply:

complete, including seals



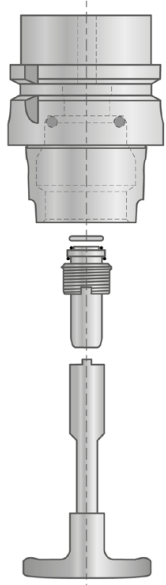
		83 760 ...	
Adapter	THOD	£ Y8	
HSK 32	M10 x 1	19.91	032
HSK 40	M12 x 1	19.91	040
HSK 50	M16 x 1	19.91	050
HSK 63	M18 x 1	10.88	063
HSK 80	M20 x 1,5	21.81	080
HSK 100	M24 x 1,5	17.78	100

Key

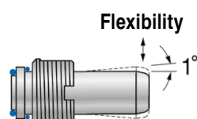


		83 758 ...	
Adapter		£ Y8	
HSK 32		34.29	032
HSK 40		34.58	040
HSK 50		37.50	050
HSK 63		23.33	063
HSK 80		44.17	080
HSK 100		43.79	100

Coolant pipe for HSK tools



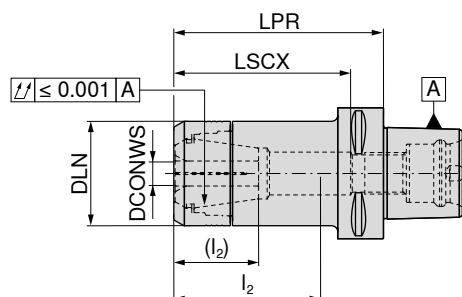
The coolant pipe is ideally mounted in vertical direction – from the bottom to the top. In this manner the sealing ring is prevented from being compressed during locating which would cause the loss of its sealing function. After mounting, the coolant pipe can be moved only to a minimum degree according 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	£ Y8	
PSC 40	1 - 10	55	30	47	29 - 38	426E (ER16)	427.59	402
PSC 50	1 - 10	60	30	47	29 - 38	426E (ER16)	427.59	501
PSC 50	1 - 10	100	30	87	29 - 51 (29 - 37)	426E (ER16)	457.58	502
PSC 50	1 - 16	60	40	48		430E (ER25)	427.59	505
PSC 50	2 - 20	60	50	49		470E (ER32)	427.59	507
PSC 63	1 - 10	60	30	44		426E (ER16)	409.57	601
PSC 63	1 - 10	100	30	83	29 - 53 (25 - 39)	426E (ER16)	439.58	602
PSC 63	1 - 16	60	40	38		430E (ER25)	409.57	605
PSC 63	1 - 16	100	40	78	36 - 62 (30 - 45)	430E (ER25)	439.58	606
PSC 63	1 - 16	130	40	99	34 - 70 (30 - 50)	430E (ER25)	479.49	607
PSC 63	1 - 16	160	40	118	34 - 70 (30 - 50)	430E (ER25)	559.44	608
PSC 63	2 - 20	60	50	42		470E (ER32)	409.57	609
PSC 63	2 - 20	100	50	79	45 - 63 (25 - 45)	470E (ER32)	439.58	610
PSC 63	2 - 20	130	50	99	45 - 63 (25 - 53)	470E (ER32)	479.49	611
PSC 63	3 - 26	65	63	51		472E (ER40)	459.53	612

→ 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 4 mm longer

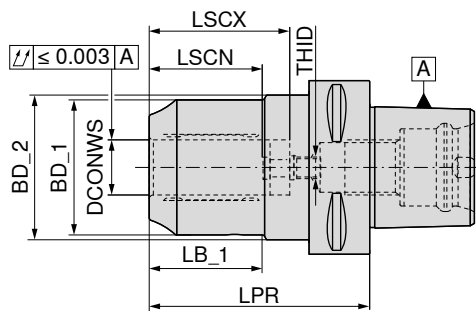
	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
Spare parts for collet	£ Y8		£ Y8		£ Y8		£ Y8	
426E (ER16)	76.42	011	56.75	001	M11x1 - SW6	47.40	31.75	337
430E (ER25)	85.18	013	63.06	003	M18x1,5 - SW6	33.34	23.78	431
470E (ER32)	91.08	015	69.36	005	M22x1,5 - SW6	28.16	20.51	401
472E (ER40)	124.56	017	100.91	007			M28x1,5 - SW6	28.75
								400

High pressure chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

84 108 ...

£

Y8

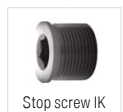
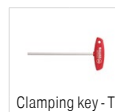
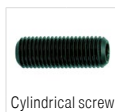
719.20 62000

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

Spare parts for Article no.

84 108 62000	M5x5 - SW2,5	£ Y7 3.03	157	SW5	£ Y7 6.39	050	M10x1x14	£ Y7 9.08	429	M16x1x13,5 - SW8	£ Y7 22.87	424
--------------	--------------	-----------------	-----	-----	-----------------	-----	----------	-----------------	-----	------------------	------------------	-----



83 950 ...

80 397 ...

83 950 ...

83 950 ...

Accessories

Reduction sleeve	Coolant transfer pipe	Others
→ 271	→ 182	→ 273

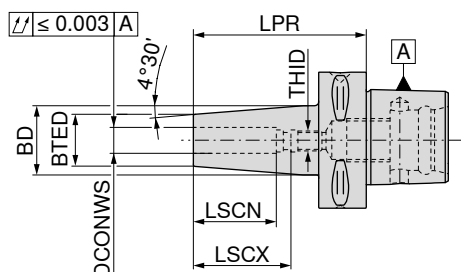
Shrink adapters

- ▲ 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

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 104 ...		84 105 ...		84 106 ...	
									£ Y8		£ Y8		£ Y8	
short	PSC 32	65	6	21	27	36	26	M5	263.00	306				
	PSC 32	65	8	21	27	36	26	M6	263.00	308				
	PSC 32	70	10	24	32	41	31	M8x1	263.00	310				
	PSC 32	75	12	24	32	47	37	M10x1	263.00	312				
	PSC 40	75	6	21	27	36	26	M5	268.02	406				
	PSC 40	75	8	21	27	36	26	M6	268.02	408				
	PSC 40	75	10	24	32	41	31	M8x1	268.02	410				
	PSC 40	75	12	24	32	47	37	M10x1	268.02	412				
	PSC 40	80	14	27	34	47	37	M10x1	268.02	414				
	PSC 40	80	16	27	34	50	40	M12x1	268.02	416				
	PSC 40	80	18	33	42	50	40	M12x1	268.02	418				
	PSC 40	85	20	33	42	52	42	M16x1	268.02	420				
	PSC 50	65	3	12	17				332.19	503				
	PSC 50	65	4	12	17				332.19	504				
	PSC 50	65	5	12	17				332.19	505				
long	PSC 50	75	6	21	30	36	26	M5	275.75	506				
	PSC 50	75	8	21	30	36	26	M6	275.75	508				
	PSC 50	75	10	24	33	41	31	M8x1	275.75	510				
	PSC 50	75	12	24	33	47	37	M10x1	275.75	512				
	PSC 50	80	14	27	34	47	37	M10x1	275.75	514				
	PSC 50	80	16	27	34	50	40	M12x1	275.75	516				
	PSC 50	80	18	33	42	50	40	M12x1	275.75	518				
	PSC 50	85	20	33	42	52	42	M16x1	275.75	520				
	PSC 50	90	25	44	53	58	48	M16x1	275.75	525				
	PSC 50	120	6	21	32	36	26	M5			332.19	506		
	PSC 50	120	8	21	32	36	26	M6			332.19	508		
	PSC 50	120	10	24	34	41	31	M8x1			332.19	510		
	PSC 50	120	12	24	34	47	37	M10x1			332.19	512		
	PSC 50	120	14	27	36	47	37	M10x1			332.19	514		
	PSC 50	120	16	27	36	50	40	M12x1			332.19	516		
short	PSC 50	120	18	33	42	50	40	M12x1			332.19	518		
	PSC 50	120	20	33	42	52	42	M16x1			332.19	520		
	PSC 50	120	25	44	53	58	48	M16x1			332.19	525		
	PSC 63	80	3	12	17				409.22	603				
	PSC 63	80	4	12	17				409.22	604				
	PSC 63	80	5	12	17				409.22	605				
	PSC 63	80	6	21	27	36	26	M5	345.06	606				
	PSC 63	80	8	21	27	36	26	M6	345.06	608				
	PSC 63	80	10	24	32	41	31	M8x1	345.06	610				
	PSC 63	80	12	24	32	47	37	M10x1	345.06	612				
	PSC 63	85	14	27	34	47	37	M10x1	345.06	614				
	PSC 63	85	16	27	34	50	40	M12x1	345.06	616				
	PSC 63	85	18	33	42	50	40	M12x1	345.06	618				
	PSC 63	85	20	33	42	52	42	M16x1	345.06	620				
	PSC 63	90	25	44	53	58	48	M16x1	345.06	625				
	PSC 63	95	32	44	53	61	51	M16x1	345.06	632				

→ Min. clamping depth, Page 300

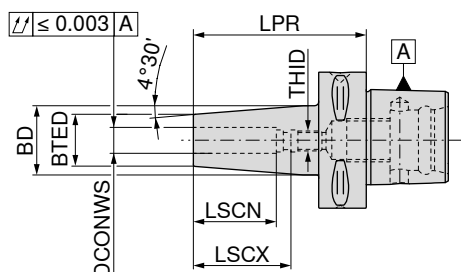
Shrink adapters

- ▲ 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



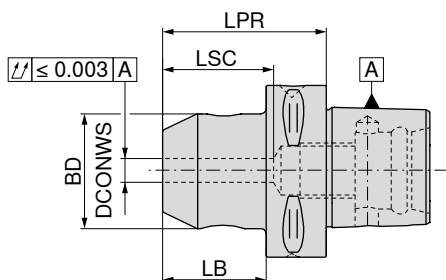
G 6,3 n_{max} 15000 G 6,3 n_{max} 15000 G 6,3 n_{max} 15000

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 104 ...		84 105 ...		84 106 ...	
									£ Y8		£ Y8		£ Y8	
long	PSC 63	120	6	21	32	36	26	M5			409.22	606		
	PSC 63	120	8	21	32	36	26	M6			409.22	608		
	PSC 63	120	10	24	32	41	31	M8x1			409.22	610		
	PSC 63	120	12	24	32	47	37	M10x1			409.22	612		
	PSC 63	120	14	27	36	47	37	M10x1			409.22	614		
	PSC 63	120	16	27	36	50	40	M12x1			409.22	616		
	PSC 63	120	18	33	44	50	40	M12x1			409.22	618		
	PSC 63	120	20	33	44	52	42	M16x1			409.22	620		
	PSC 63	120	25	44	53	58	48	M16x1			409.22	625		
	PSC 63	120	32	44	53	61	51	M16x1			409.22	632		
extra-long	PSC 63	160	6	21	32	36	26	M5					447.66	606
	PSC 63	160	8	21	32	36	26	M6					447.66	608
	PSC 63	160	10	24	34	41	31	M8x1					447.66	610
	PSC 63	160	12	24	34	47	37	M10x1					447.66	612
	PSC 63	160	14	27	36	47	37	M10x1					447.66	614
	PSC 63	160	16	27	36	50	40	M12x1					447.66	616
	PSC 63	160	18	33	44	50	40	M12x1					447.66	618
	PSC 63	160	20	33	44	52	42	M16x1					447.66	620
	PSC 63	160	25	44	53	58	48	M16x1					447.66	625
	PSC 63	160	32	44	53	61	51	M16x1					447.66	632
short	PSC 80	85	6	21	27	36	26	M5	370.77	806				
	PSC 80	85	8	21	27	36	26	M6	370.77	808				
	PSC 80	85	10	24	32	41	31	M8x1	370.77	810				
	PSC 80	85	12	24	32	47	37	M10x1	370.77	812				
	PSC 80	90	14	27	34	47	37	M10x1	370.77	814				
	PSC 80	90	16	27	34	50	40	M12x1	370.77	816				
	PSC 80	90	18	33	42	50	40	M12x1	370.77	818				
	PSC 80	90	20	33	42	52	42	M16x1	370.77	820				
	PSC 80	95	25	44	53	58	48	M16x1	370.77	825				
	PSC 80	100	32	44	53	61	51	M16x1	370.77	832				
long	PSC 80	120	6	21	32	36	26	M5			442.51	806		
	PSC 80	120	8	21	32	36	26	M6			442.51	808		
	PSC 80	120	10	24	34	41	31	M8x1			442.51	810		
	PSC 80	120	12	24	34	47	37	M10x1			442.51	812		
	PSC 80	120	14	27	36	47	37	M10x1			442.51	814		
	PSC 80	120	16	27	36	50	40	M12x1			442.51	816		
	PSC 80	120	18	33	44	50	40	M12x1			442.51	818		
	PSC 80	120	20	33	44	52	42	M16x1			442.51	820		
	PSC 80	120	25	44	53	58	48	M16x1			442.51	825		
	PSC 80	120	32	44	53	61	51	M16x1			442.51	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**

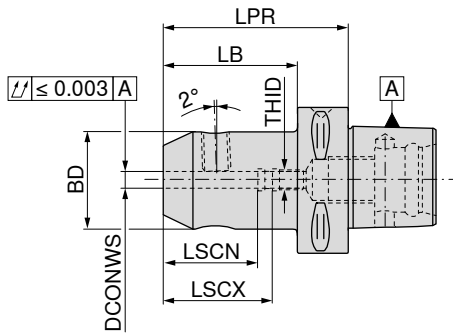
G 6,3 n_{max} 15000

84 100 ...

Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	£ Y8	
PSC 32	6	45	25	30	35	216.73	306
PSC 32	8	45	28	30	35	216.73	308
PSC 32	10	50	35	35	39	216.73	310
PSC 32	12	55	42	40	44	216.73	312
PSC 40	6	50	25	30	35	237.30	406
PSC 40	8	50	28	30	35	237.30	408
PSC 40	10	50	35	30	39	237.30	410
PSC 40	12	55	42	35	44	237.30	412
PSC 40	14	55	44	35	44	237.30	414
PSC 40	16	55	48	35	47	237.30	416
PSC 50	6	50	25	30	35	242.45	506
PSC 50	8	50	28	30	35	242.45	508
PSC 50	10	55	35	35	39	242.45	510
PSC 50	12	60	42	40	44	242.45	512
PSC 50	14	60	44	40	44	242.45	514
PSC 50	16	60	48	40	47	242.45	516
PSC 50	18	60	50	40	47	242.45	518
PSC 50	20	60	52	40	47	242.45	520
PSC 50	25	80	65	60	54	242.45	525
PSC 63	6	55	25	33	35	268.02	606
PSC 63	8	55	28	33	35	268.02	608
PSC 63	10	60	35	38	39	268.02	610
PSC 63	12	60	42	38	44	268.02	612
PSC 63	14	60	44	38	44	268.02	614
PSC 63	16	65	48	43	47	268.02	616
PSC 63	18	65	50	43	47	268.02	618
PSC 63	20	65	52	43	49	268.02	620
PSC 63	25	80	65	58	54	268.02	625
PSC 63	32	90	72	68	58	268.02	632
PSC 63	40	100	80	78	75	268.02	640
PSC 80	6	70	25	40	35	293.75	806
PSC 80	8	70	28	40	35	293.75	808
PSC 80	10	70	35	40	39	293.75	810
PSC 80	12	70	42	40	44	293.75	812
PSC 80	14	70	44	40	44	293.75	814
PSC 80	16	70	48	50	47	293.75	816
PSC 80	18	70	50	40	47	293.75	818
PSC 80	20	70	52	40	49	293.75	820
PSC 80	25	80	65	50	54	293.75	825
PSC 80	32	80	72	50	58	293.75	832
PSC 80	40	110	80	80	75	293.75	840
PSC 80	50	120	100	90	83	293.75	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	£ Y8	
PSC 32	6	70	25	55	38	28	M5	216.73	306
PSC 32	8	70	28	55	38	28	M6	216.73	308
PSC 32	10	70	35	55	41	31	M8	216.73	310
PSC 32	12	75	42	60	47	37	M10	216.73	312
PSC 40	6	70	25	50	38	28	M5	237.30	406
PSC 40	8	70	28	50	38	28	M6	237.30	408
PSC 40	10	70	35	50	41	31	M8	237.30	410
PSC 40	12	75	42	55	47	37	M10	237.30	412
PSC 40	14	75	44	55	47	37	M10	237.30	414
PSC 50	6	70	25	50	38	28	M5	242.45	506
PSC 50	8	70	28	50	38	28	M6	242.45	508
PSC 50	10	70	35	50	41	31	M8	242.45	510
PSC 50	12	75	42	55	47	37	M10	242.45	512
PSC 50	14	75	44	55	47	37	M10	242.45	514
PSC 50	16	80	48	60	50	40	M12	242.45	516
PSC 50	18	80	50	60	50	40	M12	242.45	518
PSC 50	20	85	52	65	52	42	M16	242.45	520
PSC 63	6	75	25	53	38	28	M5	268.02	606
PSC 63	8	75	28	53	38	28	M6	268.02	608
PSC 63	10	75	35	53	41	31	M8	268.02	610
PSC 63	12	80	42	58	47	37	M10	268.02	612
PSC 63	14	80	44	58	47	37	M10	268.02	614
PSC 63	16	80	48	58	50	40	M12	268.02	616
PSC 63	18	80	50	58	50	40	M12	268.02	618
PSC 63	20	85	52	63	52	42	M16	268.02	620
PSC 63	25	90	65	68	58	48	M16	268.02	625
PSC 63	32	95	72	73	61	51	M16	268.02	632
PSC 80	6	65	25	35	38	28	M5	293.75	806
PSC 80	8	65	28	35	38	28	M6	293.75	808
PSC 80	10	65	35	35	41	31	M8	293.75	810
PSC 80	12	70	42	40	47	37	M10	293.75	812
PSC 80	14	70	44	40	47	37	M10	293.75	814
PSC 80	16	75	48	45	50	40	M12	293.75	816
PSC 80	18	75	50	45	50	40	M12	293.75	818
PSC 80	20	80	52	50	52	42	M16	293.75	820
PSC 80	25	90	65	60	58	48	M16	293.75	825
PSC 80	32	95	72	65	61	51	M16	293.75	832

Backstop
screw IK

84 950 ...

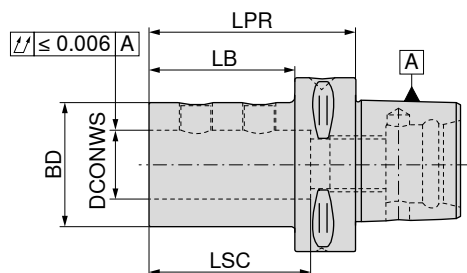
Spare parts DCONWS

DCONWS		£ Y8	
6	M5	13.35	146
8	M6	13.35	147
10	M8	13.35	148
12 - 14	M10	13.35	149
16 - 18	M12	13.35	150
20 - 32	M16	13.35	151

Indexable insert drill adapter ISO 26623-1 PSC

▲ Run out ≤ 0.005 mm

▲ also available with Balluff chip on request



						84 128 ...	
						£	
						Y8	
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm		
PSC 32	16	60	36	45	49	357.91	316
PSC 32	20	60	40	45	54	357.91	320
PSC 40	16	60	36	40	49	370.77	416
PSC 40	20	60	40	40	54	370.77	420
PSC 40	25	80	45	50	59	370.77	425
PSC 50	16	65	36	45	49	396.36	516
PSC 50	20	65	40	45	54	396.36	520
PSC 50	25	70	45	50	59	396.36	525
PSC 50	32	75	52	55	63	396.36	532
PSC 63	16	70	36	48	49	396.36	616
PSC 63	20	70	40	48	54	396.36	620
PSC 63	25	75	45	53	59	396.36	625
PSC 63	32	75	52	53	63	396.36	632
PSC 63	40	85	65	63	73	396.36	640
PSC 63	50	115	75	93	83	396.36	650
PSC 80	16	80	36	50	49	473.38	816
PSC 80	20	80	40	50	54	473.38	820
PSC 80	25	85	45	55	59	473.38	825
PSC 80	32	90	52	60	63	473.38	832
PSC 80	40	95	65	65	73	473.38	840
PSC 80	50	100	75	70	83	473.38	850



Grubscrew

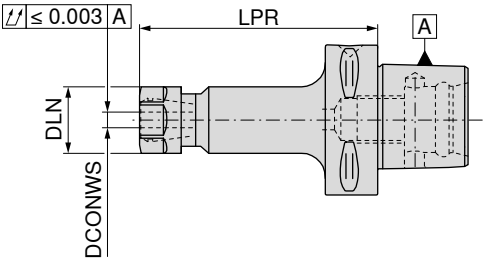
Spare parts

DCONWS

				83 950 ...	
				£	
				Y8	
16 - 20			M10x1x10	7.13	180
25 - 32			M10x1x12	7.13	181
40 - 50			M16x1x13	6.36	182

ER Collet chuck

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



G 6,3 n_{max} 15000

Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	£	
PSC 32	1 - 10	45	28	8 - 56	426E (ER16)	191.14	304
PSC 40	1 - 10	55	28	8 - 56	426E (ER16)	204.00	404
PSC 50	1 - 10	60	28	8 - 56	426E (ER16)	216.73	504
PSC 50	1 - 10	100	28	8 - 56	426E (ER16)	255.30	506
PSC 63	1 - 10	60	28	8 - 56	426E (ER16)	216.73	604
PSC 63	1 - 10	100	28	8 - 56	426E (ER16)	255.30	606
PSC 80	1 - 10	60	28	8 - 56	426E (ER16)	242.45	804
PSC 80	1 - 10	100	28	8 - 56	426E (ER16)	280.89	806

84 114 ...

£
Y8



Lock nut

62 950 ...

£
W7

Spare parts for collet

426E (ER16)

M22x1,5 - SW25

26.65 044

Accessories



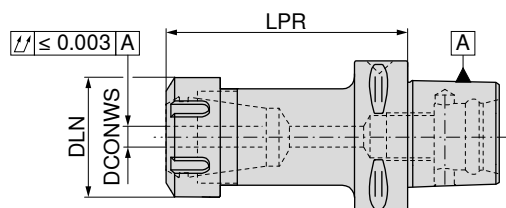
ER collet

→ 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	£ Y8	
PSC 32	1 - 13	45	34	16 - 80	428E (ER20)	191.14	306
PSC 40	1 - 13	55	34	16 - 80	428E (ER20)	204.00	404
PSC 40	1 - 16	55	42	24 - 104	430E (ER25)	204.00	406
PSC 40	2 - 20	55	50	24 - 136	470E (ER32)	204.00	408
PSC 50	1 - 13	60	34	16 - 80	428E (ER20)	216.73	502
PSC 50	1 - 13	100	34	16 - 80	428E (ER20)	268.02	504
PSC 50	1 - 16	60	42	24 - 104	430E (ER25)	216.73	506
PSC 50	1 - 16	100	42	24 - 104	430E (ER25)	268.02	508
PSC 50	2 - 20	60	50	24 - 136	470E (ER32)	229.59	510
PSC 50	2 - 20	100	50	24 - 136	470E (ER32)	280.89	512
PSC 50	3 - 26	65	63	176	472E (ER40)	237.30	514
PSC 50	3 - 26	100	63	176	472E (ER40)	288.61	516
PSC 63	1 - 13	60	34	16 - 80	428E (ER20)	216.73	602
PSC 63	1 - 13	100	34	16 - 80	428E (ER20)	268.02	604
PSC 63	1 - 16	60	42	24 - 104	430E (ER25)	216.73	606
PSC 63	1 - 16	100	42	24 - 104	430E (ER25)	268.02	608
PSC 63	2 - 20	60	50	24 - 136	470E (ER32)	229.59	610
PSC 63	2 - 20	100	50	24 - 136	470E (ER32)	280.89	612
PSC 63	3 - 26	65	63	176	472E (ER40)	237.30	614
PSC 63	3 - 26	100	63	176	472E (ER40)	288.61	616
PSC 80	1 - 13	65	34	16 - 80	428E (ER20)	293.75	802
PSC 80	1 - 13	100	34	16 - 80	428E (ER20)	383.49	804
PSC 80	1 - 16	70	42	24 - 104	430E (ER25)	293.75	806
PSC 80	1 - 16	100	42	24 - 104	430E (ER25)	383.49	808
PSC 80	2 - 20	70	50	24 - 136	470E (ER32)	293.75	810
PSC 80	2 - 20	100	50	24 - 136	470E (ER32)	383.49	812
PSC 80	3 - 26	80	63	176	472E (ER40)	293.75	814
PSC 80	3 - 26	100	63	176	472E (ER40)	383.49	816



Lock nut



Lock nut IK



Lock nut



Y clamping key

62 950 ...

83 950 ...

62 950 ...

83 357 ...

Spare parts
for collet

	£ W7		£ Y8		£ W7		£ Y8	
428E (ER20)	M25x1,5 - SW30	21.49	045	M25x1,5	77.94	053	33.81	12000
430E (ER25)				M32x1,5	79.92	055	23.31	125
470E (ER32)				M40x1,5	85.48	056	33.95	132
472E (ER40)				M50x1,5	102.87	057	38.47	140

Accessories



ER collet

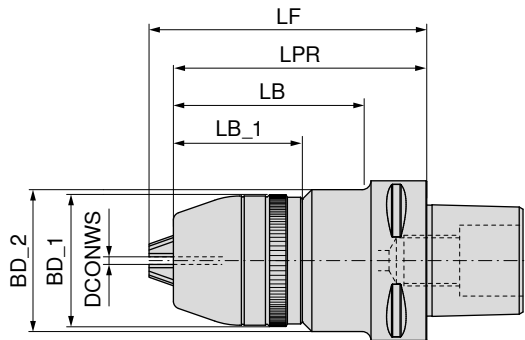
→ 256-266

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 ...

£

Y8

911.82 01395

935.76 01695

930.51 01394

954.87 01694

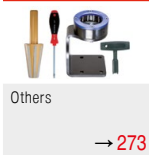
949.41 01393

974.40 01693

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
PSC 40	2,5 - 16	51.0	56	52.15	78.0	100	110.5
PSC 50	0,5 - 13	48.5	56	50.90	77.0	100	109.0
PSC 50	2,5 - 16	51.0	56	52.15	77.0	100	110.5
PSC 63	0,5 - 13	48.5	56	50.90	74.5	100	109.0
PSC 63	2,5 - 16	51.0	56	52.15	74.5	100	110.5

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

Accessories

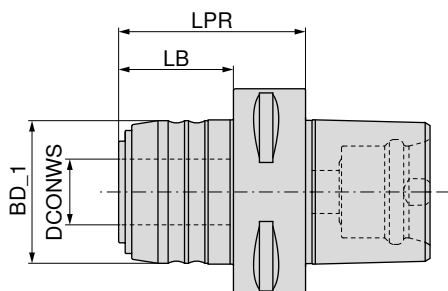


Others

→ 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**



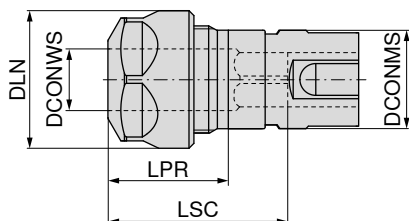
								84 140 ...	
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	£ Y8	
PSC 63	M3 - M12	1	57	43	20	35	1,0 / 0,2	876.09	612
PSC 63	M6 - M20	2	77	60	32	55	1,0 / 0,2	985.18	620

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut

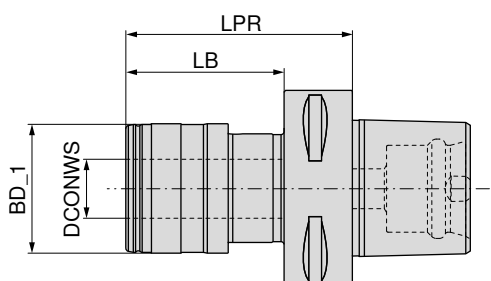


								83 608 ...	
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	£ Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	195.17	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	227.34	020

insert for synchro quick change tapping chuck with minimum length compensation

Quick change tap chuck with length compensation

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



								84 142 ...	
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	£ Y8	
PSC 63	M3 - M12	01	73	41	19	51	7,5	909.15	612
PSC 63	M6 - M20	02	97	60	31	75	10	1,021.56	620

Accessories

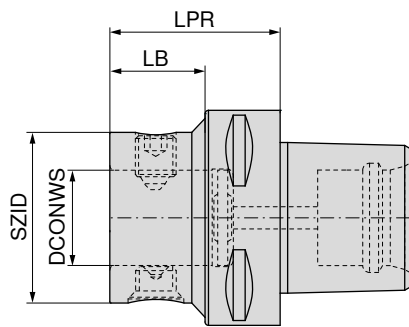


Collet

→ 277-281

Adapter with ABS Connection

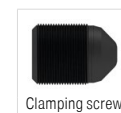
▲ also available with Balluff chip **on request**



						84 215 ...	
						£	
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	Y8	
PSC 40	A69 04050	ABS 50	28	50	30	1,435.30	04097
PSC 50	A69 05050	ABS 50	28	50	30	924.24	05097
PSC 63	A69 06050	ABS 50	28	50	28	960.28	06397
PSC 63	A69 06060	ABS 63	34	60	36	992.22	06396
PSC 80	A69 08050	ABS 50	28	50	23	1,360.77	08097
PSC 80	A69 08060	ABS 63	34	60	30	1,435.30	08096
PSC 80	A69 08070	ABS 80	46	80	48	1,518.23	08092

Spare parts SZID

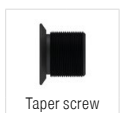
	£		£		£	
ABS 50	12.18	20300	27.75	99800	15.63	20400
ABS 63	8.21	25500	18.47	99400	10.41	27300
ABS 80	10.12	25600	22.39	99300	12.32	25100



84 950 ...

£
XX

84 950 ...

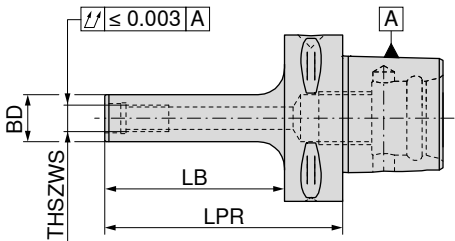
£
XX

84 950 ...

£
XX

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	£ Y8	
PSC 32	M8	60	13	45	293.75	302
PSC 32	M10	70	18	55	293.75	306
PSC 40	M8	70	13	50	301.47	402
PSC 40	M10	80	18	60	301.47	405
PSC 40	M12	80	21	60	301.47	408
PSC 50	M8	70	13	50	306.60	502
PSC 50	M10	80	18	60	306.60	505
PSC 50	M12	80	21	60	306.60	508
PSC 50	M16	80	29	60	306.60	512
PSC 63	M8	70	13	48	332.19	602
PSC 63	M10	90	18	68	332.19	605
PSC 63	M12	100	21	78	332.19	608
PSC 63	M16	100	29	78	332.19	612

Accessories



Coolant transfer pipe

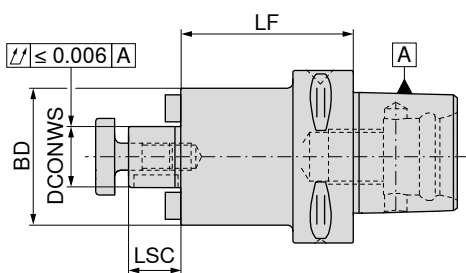
→ 182

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 ...

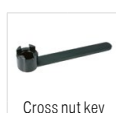
Adapter	DCONWS mm	LF mm	BD mm	LSC mm	£ Y8	
PSC 40	16	28	40	17	229.59	401
PSC 40	16	63	40	17	242.45	402
PSC 40	22	40	50	19	229.59	411
PSC 40	22	63	50	19	242.45	412
PSC 50	16	28	40	17	229.59	501
PSC 50	16	63	40	17	242.45	502
PSC 50	22	28	50	19	229.59	511
PSC 50	22	63	50	19	242.45	512
PSC 50	27	32	50	21	229.59	521
PSC 50	27	63	50	21	242.45	522
PSC 50	32	40	63	24	229.59	531
PSC 50	32	63	63	24	242.45	532
PSC 63	16	63	40	17	255.30	602
PSC 63	22	28	63	19	242.45	611
PSC 63	22	63	50	19	255.30	612
PSC 63	27	28	58	21	242.45	621
PSC 63	27	63	58	21	255.30	622
PSC 63	32	22	63	24	242.45	631
PSC 63	32	86	63	24	255.30	632
PSC 63	40	40	70	27	280.89	641
PSC 80	16	63	40	17	301.47	802
PSC 80	22	30	50	19	289.96	811
PSC 80	22	63	50	19	301.47	812
PSC 80	27	30	58	21	289.96	821
PSC 80	27	63	58	21	301.47	822
PSC 80	32	30	63	24	289.96	831
PSC 80	32	86	63	24	301.47	832
PSC 80	40	40	70	27	289.96	841



84 950 ...



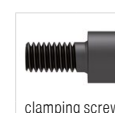
84 950 ...



83 368 ...



83 367 ...



83 950 ...

Spare parts

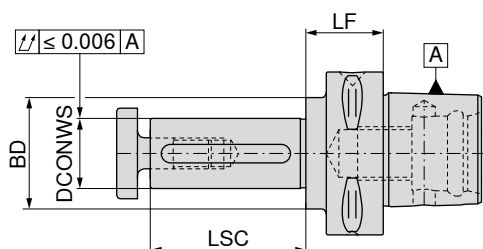
DCONWS	Y8		Y8		Y8		Y8		Y8			
16	5.02	108	11.38	113	21.07	116	M8	5.60	016	M8x25	5.93	113
22	5.02	109	13.35	114	26.21	122	M10	6.23	022	M10x25	6.70	124
27	5.02	110	14.45	115	30.81	127	M12	7.96	027	M12x30	7.40	125
32	5.02	111	16.40	116	42.00	132	M16	12.50	032	M16x35	9.02	126
40	5.02	112	18.24	117	41.71	140	M20	13.38	040	M20x40 -SW17	9.94	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	£ Y8	
PSC 32	16	20	28	30	229.59	316
PSC 40	16	25	28	30	242.45	416
PSC 40	22	25	36	40	242.45	422
PSC 40	27	25	40	60	242.45	427
PSC 50	16	25	28	30	242.45	516
PSC 50	22	25	36	40	242.45	522
PSC 50	27	25	43	60	242.45	527
PSC 50	32	25	50	60	242.45	532
PSC 63	16	30	28	30	242.45	616
PSC 63	22	30	36	40	242.45	622
PSC 63	27	30	43	60	242.45	627
PSC 63	32	25	48	60	242.45	632
PSC 63	40	25	56	60	242.45	640
PSC 80	16	40	28	30	280.89	816
PSC 80	22	40	36	40	280.89	822
PSC 80	27	30	43	60	280.89	827
PSC 80	32	30	48	60	280.89	832
PSC 80	40	30	56	60	280.89	840
PSC 80	50	30	70	60	280.89	850
PSC 80	60	30	60	60	280.89	860

Spare parts

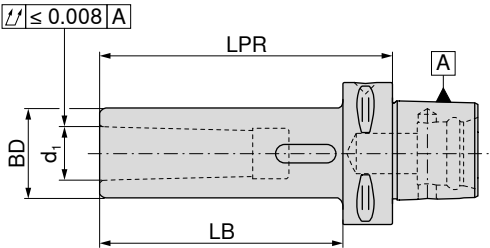
DCONWS

	84 950 ...		83 368 ...		83 367 ...	
	£ Y8		£ Y8		£ Y8	
16	5.02	101	21.07	116	5.60	016
22	5.02	102	26.21	122	6.23	022
27	5.02	103	30.81	127	7.96	027
32	5.02	104	42.00	132	12.50	032
40	5.02	105	41.71	140	13.38	040
50	5.02	106	59.45	150	34.03	050
60	5.02	107				



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

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



					84 126 ...	
					£	
					Y8	
PSC 40	MK2	110	32	90	242.45	402
PSC 40	MK3	130	40	119	255.30	403
PSC 50	MK2	110	32	90	255.30	502
PSC 50	MK3	130	40	110	268.02	503
PSC 50	MK4	150	48	132	280.89	504
PSC 63	MK2	110	32	88	255.30	602
PSC 63	MK3	130	40	108	268.02	603
PSC 63	MK4	150	48	128	280.89	604
PSC 80	MK2	120	32	90	293.75	802
PSC 80	MK3	140	40	110	319.34	803
PSC 80	MK4	160	48	130	345.06	804

Blank

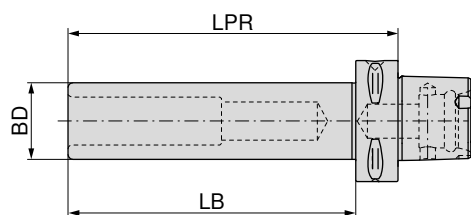
- ▲ Material: 25CrMoV4
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



			84 134 ...	
			£	
			Y8	
PSC 40	40	95	178.28	402
PSC 40	40	120	191.14	403
PSC 40	60	165	204.00	404
PSC 40	80	75	229.59	405
PSC 40	80	120	242.45	406
PSC 40	100	85	255.30	408
PSC 50	50	125	204.00	502
PSC 50	50	150	216.73	503
PSC 50	75	175	242.45	504
PSC 50	90	80	255.30	506
PSC 50	95	150	268.02	508
PSC 50	110	90	255.30	510
PSC 63	63	180	242.45	602
PSC 63	75	195	255.30	604
PSC 63	110	85	255.30	606
PSC 63	120	180	383.49	608
PSC 63	130	95	293.75	610
PSC 80	80	200	293.75	802
PSC 80	120	160	293.75	804
PSC 80	130	90	280.89	806
PSC 80	145	200	319.34	808

Test bar

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



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

84 136 ...

 £
Y8

863.97	030
958.25	040
1,023.65	050
1,077.51	060
1,293.02	080

Coolant pipe

Scope of supply:

complete, including seals


84 116 ...

 £
Y8

Adapter	THOD		
PSC 40	M14 x 1,5	45.36	04000
PSC 50	M16 x 1,5	47.69	05000
PSC 63	M20 x 2,0	50.04	06300
PSC 80	M20 x 2,0	62.34	08000

Key


84 117 ...

 £
Y8

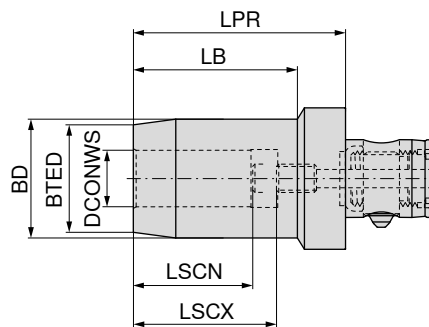
Adapter			
PSC 40		40.74	04000
PSC 50		43.64	05000
PSC 63		46.62	06300
PSC 80		63.04	08000

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	£ 3E	
ABS 40	A32 32060	8	24	28	60	42.0	37	27	628.09	00888
ABS 40	A32 32070	10	26	30	65	47.5	41	31	576.54	01088
ABS 40	A32 32080	12	28	32	65	48.0	46	36	566.04	01288
ABS 50	A32 42110	6	22	26	55	33.5	37	27	612.82	00697
ABS 50	A32 42120	8	24	28	55	34.0	37	27	627.13	00897
ABS 50	A32 42130	10	26	30	65	45.0	41	31	608.04	01097
ABS 50	A32 42140	12	28	32	65	45.5	46	36	607.09	01297
ABS 50	A32 42150	14	30	34	65	46.0	46	36	608.04	01497
ABS 50	A32 42160	16	34	38	70	52.0	49	39	561.28	01697
ABS 50	A32 42170	18	36	40	70	52.5	49	39	587.04	01897
ABS 50	A32 42101	20	38	42	75	58.0	51	41	572.72	02097
ABS 63	A32 52180	20	38	42	78	56.0	51	41	819.00	02096
ABS 63	A32 52190	25	53	57	85	60.0	57	47	917.32	02596
ABS 63	A32 52200	32	60	64	90	61.0	61	51	996.54	03296



Backstop screw

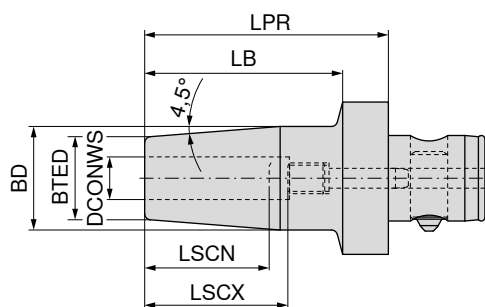
84 950 ...

Spare parts for Article no.

	£ W7	
84 223 00697	M6x12 - SW2,5	3.13 22000
84 223 00897	M8x1x12 - SW3	3.94 22100
84 223 00888	M6x12 - SW2,5	3.13 22000
84 223 01088	M8x1x12 - SW3	3.94 22100
84 223 01097	M10x1x12 - SW4	3.94 22200
84 223 01297	M10x1x12 - SW4	3.94 22200
84 223 01288	M10x1x12 - SW4	3.94 22200
84 223 01497	M10x1x12 - SW4	3.94 22200
84 223 01697	M10x1x12 - SW4	3.94 22200
84 223 01897	M16x1x16 - SW5	7.38 22400
84 223 02096	M16x1x16 - SW5	7.38 22400
84 223 02097	M5x12 - SW2	3.13 22300
84 223 02596	M16x1x16 - SW5	7.38 22400
84 223 03296	M16x1x16 - SW5	7.38 22400

Heat shrink adapter 4.5° with ABS connection

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

G 6,3 n_{max} 15000

84 222 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCX mm	LSCN mm	£	
ABS 32	A32 26040	6	70	27	21	56	36	26	342.68	00689
ABS 32	A32 26050	8	70	27	21	56	36	26	283.50	00889
ABS 32	A32 26061	10	70	32	24	56	42	32	342.68	01089
ABS 32	A32 26071	12	80	32	24	66	47	37	315.96	01289
ABS 40	A32 36050	8	70	27	21	56	36	26	315.96	00888
ABS 40	A32 36061	10	70	32	24	56	42	32	315.96	01088
ABS 40	A32 36071	12	80	32	24	66	47	37	319.78	01288
ABS 40	A32 36091	16	90	34	27	76	50	40	342.68	01688
ABS 50	A32 46040	6	75	27	21	56	36	26	244.37	00697
ABS 50	A32 46050	8	75	27	21	56	36	26	242.46	00897
ABS 50	A32 46061	10	80	32	24	61	42	32	296.87	01097
ABS 50	A32 46071	12	80	32	24	61	47	37	302.59	01297
ABS 50	A32 46081	14	80	34	27	61	47	37	342.68	01497
ABS 50	A32 46091	16	85	34	27	66	50	40	287.32	01697
ABS 50	A32 46101	18	85	42	33	66	50	40	342.68	01897
ABS 50	A32 46111	20	90	42	33	71	52	42	275.87	02097
ABS 63	A32 56111	20	90	42	33	71	52	42	276.82	02096
ABS 63	A32 56121	25	95	53	44	76	58	48	354.13	02596
ABS 63	A32 56131	32	95	53	44	76	58	48	354.13	03296



Backstop screw

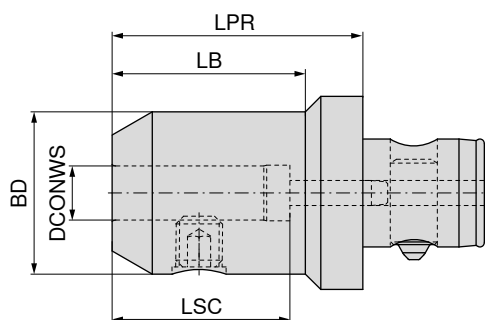
84 950 ...

Spare parts
DCONWS

		£	
6	M5x18	4.24	21400
8	M6x20	4.24	21500
10	M8x1x20	3.13	21600
12	M10x1x20	3.94	21700
14	M10x1x20	3.94	21700
16	M12x1x20	5.45	21800
18	M12x1x20	5.45	21800
20	M8x1x20	7.07	21900
25	M8x1x20	7.07	21900
32	M8x1x20	7.07	21900

Cylindrical shank adapter (Weldon) with ABS connection

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



84 221 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	£ 3E	
ABS 50	A32 40010	6	45	25.0	27	40	202.37	00697
ABS 50	A32 40020	8	45	28.0	27	40	203.32	00897
ABS 50	A32 40030	10	55	35.0	37	44	202.37	01097
ABS 50	A32 40040	12	65	42.0	50	49	211.91	01297
ABS 50	A32 40080	14	65	44.0	50	49	221.46	01497
ABS 50	A32 40050	16	65	48.0	50	52	225.28	01697
ABS 50	A32 40090	18	65	49.9	50	52	202.37	01897
ABS 50	A32 40060	20	65	52.0	50	54	206.18	02097
ABS 50	A32 40070	25	75	65.0	60	60	351.28	02597
ABS 63	A32 50040	12	65	42.0	50	49	342.68	01296
ABS 63	A32 50100	14	65	44.0	50	49	336.00	01496
ABS 63	A32 50050	16	65	48.0	50	52	294.00	01696
ABS 63	A32 50110	18	65	50.0	50	52	308.32	01896
ABS 63	A32 50060	20	65	52.0	45	54	255.82	02096
ABS 63	A32 50070	25	75	65.0	60	60	286.37	02596
ABS 63	A32 50080	32	80	72.0	65	64	225.28	03296
ABS 80	A32 60060	20	65	52.0	45	54	364.63	02092
ABS 80	A32 60070	25	75	65.0	55	60	356.04	02592
ABS 80	A32 60080	32	80	72.0	66	64	266.32	03292



Grubscrew

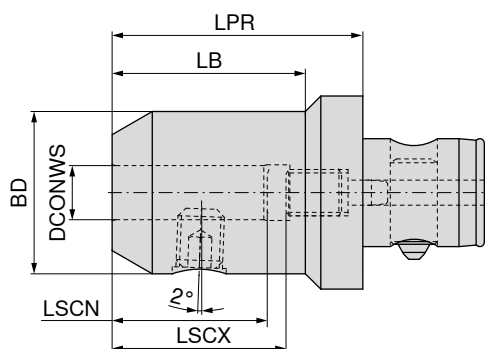
62 950 ...

Spare parts
DCONWS

DCONWS	£ W7	
6	0.91	M6x10 006
8	0.91	M8x10 008
10	1.75	M10x12 010
12	1.39	M12x16 012
14	1.39	M12x16 012
16	1.71	M14x16 016
18	1.71	M14x16 016
20	1.83	M16x16 020
25	3.53	M18x2x20 025
32	3.69	M20x2x20 032

Cylindrical shank adapter (Whistle Notch) with ABS connection

▲ 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	£ 3E	
ABS 25	A30 10601	6	55	40	24.9	36	26	227.18	00690
ABS 25	A30 10801	8	55	40	28.0	36	26	238.63	00890
ABS 25	A30 11001	10	60	45	35.0	40	30	226.22	01090
ABS 32	A30 20601	6	55	40	25.0	36	26	231.96	00689
ABS 32	A30 20801	8	55	40	28.0	36	26	232.91	00889
ABS 32	A30 20901	9	55	40	28.0	36	26	252.00	00989
ABS 32	A30 21001	10	60	45	35.0	40	30	211.91	01089
ABS 32	A30 21201	12	65	50	42.0	45	35	234.82	01289
ABS 32	A30 21401	14	65		42.0	45	35	318.82	01489
ABS 40	A30 30601	6	55	35	25.0	36	26	286.37	00688
ABS 40	A30 30801	8	55	35	28.0	36	26	264.41	00888
ABS 40	A30 31001	10	60	45	35.0	40	30	258.68	01088
ABS 40	A30 31201	12	65	50	42.0	45	35	241.50	01288
ABS 40	A30 31401	14	65	50	42.0	45	35	323.59	01488
ABS 40	A30 31601	16	70	55	48.0	48	38	270.13	01688
ABS 40	A30 31801	18	70	55	48.0	48	38	337.91	01888
ABS 50	A30 40601	6	55	30	25.0	36	26	231.00	00697
ABS 50	A30 40801	8	55	30	28.0	36	26	248.18	00897
ABS 50	A30 41001	10	60	40	35.0	40	30	229.09	01097
ABS 50	A30 41201	12	65	50	42.0	45	35	244.37	01297
ABS 50	A30 41301	13	65	50	42.0	45	35	341.72	01397
ABS 50	A30 41401	14	65	50	42.0	45	35	275.87	01497
ABS 50	A30 41601	16	70	55	48.0	48	38	255.82	01697
ABS 50	A30 41801	18	70	55	48.0	48	38	303.54	01897
ABS 50	A30 42002	20	75	60	52.0	50	40	252.00	02097
ABS 50	A30 42202	22	75	60	52.0	50	40	317.87	02297
ABS 50	A30 42502	25	75	60	52.0	50	40	267.28	02597
ABS 63	A30 51001	10	60	35	35.0	40	30	340.78	01096
ABS 63	A30 51201	12	65	45	42.0	45	35	298.78	01296
ABS 63	A30 51401	14	65	45	42.0	45	35	347.46	01496
ABS 63	A30 51601	16	70	50	48.0	48	38	311.18	01696
ABS 63	A30 51801	18	70	50	48.0	48	38	347.46	01896
ABS 63	A30 52001	20	75	55	52.0	50	40	258.68	02096
ABS 63	A30 52501	25	80	65	65.0	56	46	256.78	02596
ABS 63	A30 52801	28	80	65	65.0	56	46	370.37	02896
ABS 80	A30 62501	25	80	60	65.0	56	46	311.18	02592
ABS 80	A30 63201	32	90	70	72.0	60	50	380.87	03292

Spare parts

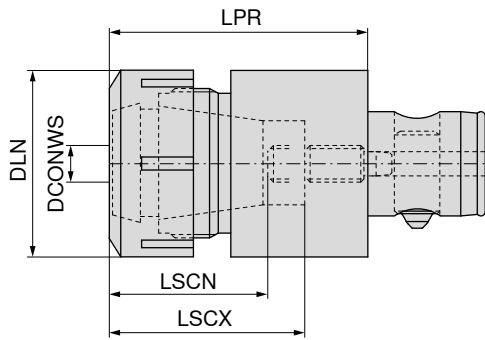
cylindrical shank adapter (Whistle Notch) with ABS connection

			 Grubscrew		 Backstop screw	
			62 950 ...		84 950 ...	
Spare parts			£		£	
DCONWS			W7		W7	
6	M6x10	0.91	006	M5x16	3.13	20500
8	M8x10	0.91	008	M6x16 - SW2,5	3.13	20600
9	M8x10	0.91	008	M8x1x16 - SW3	3.13	20800
10	M10x12	1.75	010	M8x1x16 - SW2,5	3.13	20700
12	M12x16	1.39	012	M10x1x18 - SW3	3.94	20900
13	M12x16	1.39	012	M12x1x17 - SW3	5.45	21000
14	M12x16	1.39	012	M12x1x17 - SW3	5.45	21000
16	M14x16	1.71	016	M14x1x19 - SW4	6.56	21100
18	M14x16	1.71	016	M14x1x19 - SW4	6.56	21100
20	M16x16	1.83	020	M16x1x21 - SW5	7.07	21200
22	M16x16	1.83	020	M16x1x21 - SW5	7.07	21200
25	M16x16	1.83	020	M16x1x21 - SW5	7.07	21200
28	M18x2x20	3.53	025	M16x1x21 - SW5	7.07	21200
32	M20x2x20	3.69	032	M20x1x27 - SW8	10.80	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	£ 3E	
ABS 25	A33 11120	1 - 10	40.1	28	31	28	204.28	01690
ABS 32	A33 12130	1 - 13	52.5	34	39	35	224.32	02089
ABS 40	A33 13141	1 - 16	62.0	42	46	43	239.59	02588
ABS 50	A33 14151	2 - 20	69.3	50	51	48	276.82	03297
ABS 63	A33 15161	3 - 26	78.3	63	55	52	273.00	04096

		Lock nut		Lock nut IK		Lock nut		Backstop screw	
		62 950 ...		83 950 ...		62 950 ...		84 950 ...	
Spare parts		£ W7		£ Y8		£ W7		£ W7	
DCONWS									
1 - 10	M22x1,5 - SW25	26.65	044	M22x1,5	68.61	054		M5x8 - SW2	3.13 22500
1 - 13	M25x1,5 - SW30	21.49	045	M25x1,5	77.94	053		M6x12 - SW2,5	3.13 22000
1 - 16				M32x1,5	79.92	055	22.08	M8x1x14 - SW4	3.43 22600
2 - 20				M40x1,5	85.48	056	22.64	M10x1x14 - SW5	3.94 22700
3 - 26				M50x1,5	102.87	057	23.45	M12x1x18 - SW8	5.45 22800

Accessories

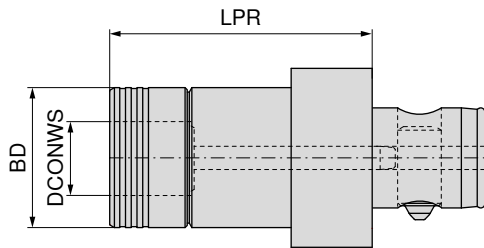


ER collet

→ 256-266

Quick change tapping chuck with length compensation

▲ With length compensation under tension and compression (LZD)



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

84 225 ...

£
3E

1,652.33 01989

1,652.33 01988

1,652.33 01997

1,918.51 03197

1,918.51 03196

Accessories



→ 277-281

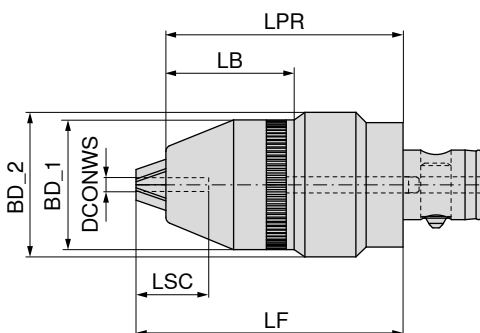
→ 57

→ 273

Short drill chuck

Scope of supply:

Holder with clamping key

G 6.3 n_{max} 6500

84 227 ...

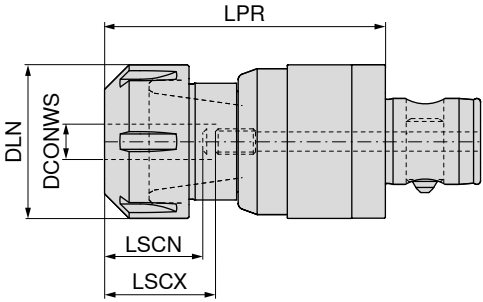
£
3E

744.54 01397

863.87 01697

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
ABS 50	A34 24040	3 - 16	95	52	57.5	29	104.7	52.0

Synchro tapping shuck with ABS connection



84 226 ...

£

Y8

1,273.35 02089

1,273.35 02097

1,396.80 03297

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

Accessories



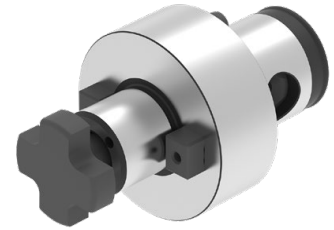
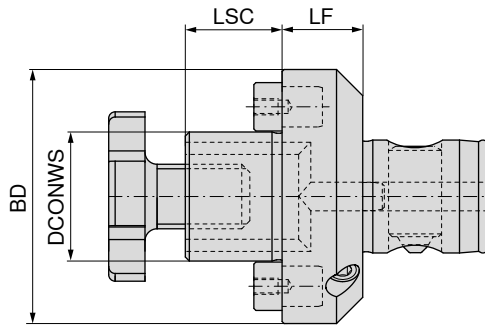
ER collet

→ 261-264

Shell mill adapter with ABS connection

Scope of supply:

Base body including drive dogs and retaining screw



Adapter	KOMET no.	DCONWS mm	LSC mm	LF mm	BD mm	84 228 ... £ 3E	84 228 ... £ 3E
ABS 50	A40 24023	16	17	20	50		284.46 01697
ABS 50	A40 24034	22	19	20	50		271.09 02297
ABS 50	A40 24043	27	21	20	50		290.18 02797
ABS 50	A40 24053	32	24	20	63		319.78 03297
ABS 63	A40 25032	22	19	22	63		328.37 02296
ABS 63	A40 25042	27	21	22	63		346.50 02796
ABS 63	A40 25052	32	24	22	63		357.00 03296
ABS 63	A40 25062	40	27	22	80		368.46 04096
ABS 80	A40 26042	27	21	25	80		359.87 02792
ABS 80	A40 26052	32	24	25	80		363.68 03292
ABS 80	A40 26062	40	27	25	80		367.50 04092
ABS 80	A40 16062	40	30	43	88	479.18 14092	
ABS 100	A40 27052	32	24	25	100		473.46 03291
ABS 100	A40 17062	40	30	38	88	407.59 14091	
ABS 100	A40 27062	40	27	25	100		412.37 04091
ABS 100	A40 17072	60	40	56	130	520.22 06091	



Drive screw



Drive dog



Driver



Retaining screw

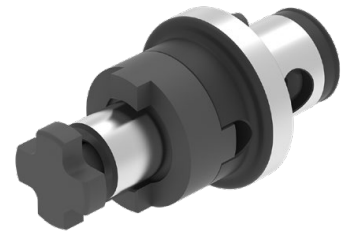
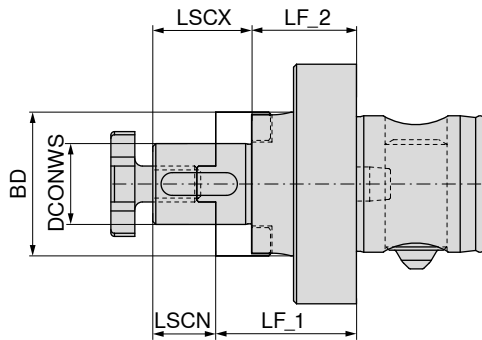
Spare parts	81 950 ... £ Y8	84 950 ... £ W7	83 950 ... £ Y8	83 367 ... £ Y8
DCONWS				
16	M3x8 1.02 010			M8 5.60 016
22		13,6x8x10 34.48 22900		M10 6.23 022
27		14,3x9x12 36.39 23000		M12 7.96 027
32		17x12x14 34.48 23100		M16 12.50 032
40	M6x16 1.69 014		15,9x16,3x19,5 21.97 295	
40				M20 13.38 040
60	M12x25 8.18 015		25,4x16,3x26,5 24.77 298	

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	£ 3E	
ABS 50	A40 04032	22	40	34	22	31	19	220.50	01697
								212.87	02297
ABS 63	A40 05021	16	32	36	26	27	17	309.28	01696
ABS 63	A40 05031	22	40	38	26	31	19	347.46	02296
ABS 63	A40 05041	27	48	38	26	33	21	270.13	02796
ABS 80	A40 06031	22	40	45	33	31	19	406.63	02292
ABS 80	A40 06041	27	48	45	33	33	21	365.59	02792
ABS 80	A40 06051	32	58	47	33	38	24	305.46	03292
ABS 80	A40 06061	40	70	47	33	41	27	321.68	04092



Parallel key



Drive ring



Retaining screw

83 950 ...

83 370 ...

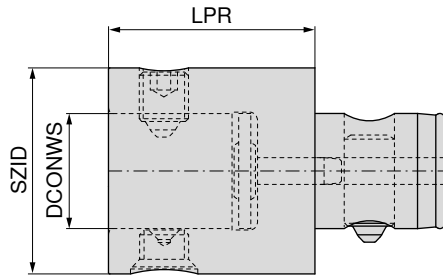
83 367 ...

Spare parts

DCONWS

		£		£		£	
16	4 x 4 x 20	Y8	284	Y8	116	Y8	016
22	6 x 6 x 25	3.45	285	12.23	122	5.60	022
27	7 x 7 x 25	5.48	286	15.26	127	6.23	027
32	8 x 7 x 28	3.90	287	16.01	132	7.96	032
40	10 x 8 x 32	4.60	288	26.96	140	12.50	040
						13.38	

Extension with ABS Connection



NEW



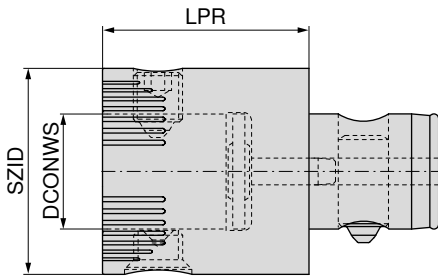
					84 209 ...	
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	£ 3E	
ABS 25	A20 00020	ABS 25	13	45	481.16	04590
ABS 25	A20 00220	ABS 25	13	60	481.16	06090
ABS 32	A20 00530	ABS 32	16	35	509.01	03589
ABS 32	A20 00030	ABS 32	16	50	509.01	05089
ABS 32	A20 00230	ABS 32	16	70	509.01	07089
ABS 40	A20 00540	ABS 40	20	40	536.66	04088
ABS 40	A20 00040	ABS 40	20	60	536.66	06088
ABS 40	A20 00240	ABS 40	20	90	536.66	09088
ABS 50	A20 00550	ABS 50	28	50	278.92	05097
ABS 50	A20 00050	ABS 50	28	65	278.92	06597
ABS 50	A20 00250	ABS 50	28	100	278.92	10097
ABS 50	A20 00150	ABS 50	28	150	278.92	15097
ABS 63	A20 00560	ABS 63	34	60	677.11	06096
ABS 63	A20 00060	ABS 63	34	85	677.11	08596
ABS 63	A20 00260	ABS 63	34	125	677.11	12596
ABS 63	A20 00160	ABS 63	34	190	677.11	19096
ABS 80	A20 00570	ABS 80	46	70	798.53	07092
ABS 80	A20 00070	ABS 80	46	85	798.53	08592
ABS 80	A20 00270	ABS 80	46	125	832.51	12592
ABS 80	A20 00170	ABS 80	46	240	832.51	24092
ABS 100	A20 00580	ABS 100	56	85	890.05	08591
ABS 100	A20 00080	ABS 100	56	125	890.05	12591
ABS 100	A20 00280	ABS 100	56	160	936.94	16091
ABS 125	A20 00090	ABS 125	70	160	1,054.05	16085
ABS 125	A20 00290	ABS 125	70	200	1,111.59	20085

	Clamping screw	Clamping screw	Set	Set	Positioning pin	Pendulum bolt	Coolant pipe	Taper screw
	62 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
Spare parts	£ XX	£ XX	£ XX	£ XX	£ XX	£ XX	£ XX	£ XX
Adapter	9.47 13989	5.68 26800	26.17 98900	13.77 99700	0.34 23600	19.69 26000	6.02 24400	8.22 27000
ABS 25								
ABS 32								
ABS 40								
ABS 50								
ABS 63								
ABS 80								
ABS 100								
ABS 125								

Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc



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

84 216 ...

£

3E

1,151.92 05097

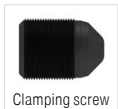
1,620.39 06096

1,740.72 07092

Spare parts

SZID

ABS 50	8.63	20300	19.57	99800	10.97	20400
ABS 63	8.22	25500	18.45	99400	10.42	27300
ABS 80	10.10	25600	22.38	99300	12.30	25100



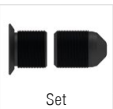
Clamping screw

84 950 ...

£

XX

8.63 20300



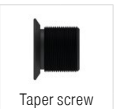
Set

84 950 ...

£

XX

19.57 99800



Taper screw

84 950 ...

£

XX

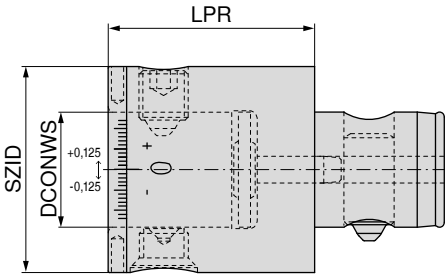
10.97 20400

Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:

Eccentric adjuster with adjuster key $\varnothing 2.8$ mm



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

84 217 ...

£

W4

564.56 05097

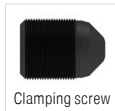
610.19 06096

Spare parts

SZID

ABS 50

ABS 63



Clamping screw

84 950 ...

£

XX

8.63 20300

8.22 25500



Set

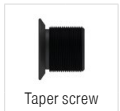
84 950 ...

£

XX

19.57 99800

18.45 99400



Taper screw

84 950 ...

£

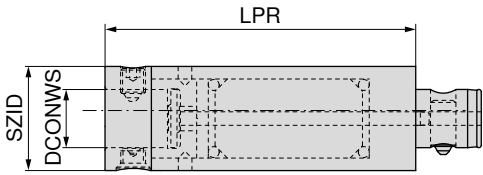
XX

10.97 20400

10.42 27300

Damping element with ABS connection

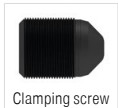
▲ Reduction in undesirable tool vibrations



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	84 218 ...	
					£ 3E	
ABS 40	A20 01240	ABS 40	20	120	1,110.13	12088
ABS 50	A20 01250	ABS 50	28	150	1,289.59	15097
ABS 63	A20 01260	ABS 63	34	190	1,686.68	19096
ABS 80	A20 01270	ABS 80	46	240	2,349.13	24092

Spare parts

SZID	84 950 ...		84 950 ...		84 950 ...	
	£ XX		£ XX		£ XX	
ABS 40	6.43	26900	14.92	99500	8.54	27200
ABS 50	8.63	20300	19.57	99800	10.97	20400
ABS 63	8.22	25500	18.45	99400	10.42	27300
ABS 80	10.10	25600	22.38	99300	12.30	25100



84 950 ...

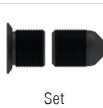
£
XX

6.43 26900

8.63 20300

8.22 25500

10.10 25600



84 950 ...

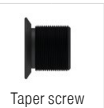
£
XX

14.92 99500

19.57 99800

18.45 99400

22.38 99300



84 950 ...

£
XX

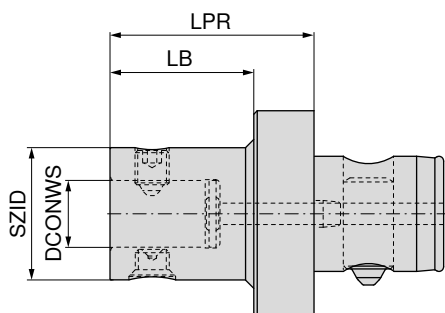
8.54 27200

10.97 20400

10.42 27300

12.30 25100

Reduction with ABS connection



NEW



						84 219 ...	
Adapter	KOMET no.	SZID	DCONWS	LPR	LB	£	
			mm	mm	mm	3E	
ABS 32	A20 10120	ABS 25	13	40	30	538.70	03290
ABS 40	A20 10220	ABS 25	13	40	28	568.60	04090
ABS 40	A20 10230	ABS 32	16	40	28	568.60	04089
ABS 50	A20 10320	ABS 25	13	50	35	617.53	05090
ABS 50	A20 10330	ABS 32	16	50	35	617.53	05089
ABS 50	A20 10340	ABS 40	20	50	35	617.53	05088
ABS 63	A20 10420	ABS 25	13	60	40	692.06	06390
ABS 63	A20 10430	ABS 32	16	60	40	692.06	06389
ABS 63	A20 10440	ABS 40	20	60	40	692.06	06388
ABS 63	A20 10450	ABS 50	28	60	40	692.06	06397
ABS 80	A20 10530	ABS 32	16	60	35	817.77	08089
ABS 80	A20 10540	ABS 40	20	60	35	817.77	08088
ABS 80	A20 10550	ABS 50	28	60	35	817.77	08097
ABS 80	A20 10560	ABS 63	34	60	35	817.77	08096
ABS 100	A20 10650	ABS 50	28	80	50	892.30	10097
ABS 100	A20 10660	ABS 63	34	80	50	892.30	10096
ABS 100	A20 10670	ABS 80	46	80	50	892.30	10092
ABS 125	A20 10770	ABS 80	46	100	50	985.88	12592
ABS 125	A20 10780	ABS 100	56	100	50	985.88	12591

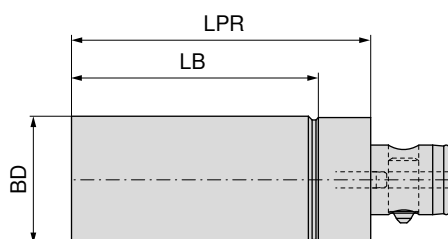
Spare parts
SZID

	£		£		£		£
ABS 25	XX		XX		XX		XX
ABS 32	9.47	13989	5.68	26800	13.77	99700	8.22 27000
ABS 40			6.43	26900	14.92	99500	8.54 27200
ABS 50			8.63	20300	19.57	99800	10.97 20400
ABS 63			8.22	25500	18.45	99400	10.42 27300
ABS 80			10.10	25600	22.38	99300	12.30 25100
ABS 100			12.45	25700	26.03	99200	13.65 25200

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

Blank with ABS connection

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



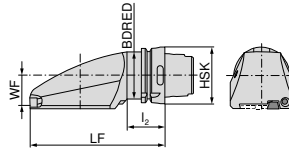
Adapter	KOMET no.	LPR mm	BD mm	LB mm
ABS 25	B10 01011	70	26	55
ABS 32	B10 02011	80	33	65
ABS 40	B10 03011	100	41	82
ABS 50	B10 04011	120	51	99
ABS 63	B10 05011	150	64	124
ABS 80	B10 06011	180	81	145
ABS 100	B10 07011	200	101	158

84 230 ...

£
W4

124.09	02690
130.78	03389
152.72	04188
148.91	05197
188.04	06496
291.13	08192
383.72	10191

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

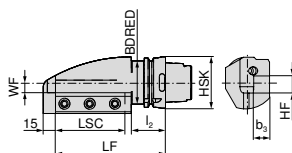


Illustrations show right-hand versions

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...	2D/80		2D/80	
HSK T100 XCLCF 32 R/L 00	HSK-T 100	160	45	88	45	XLCF R/L 32...	632.00	532	632.00	532
							740.08	732	740.08	732

Spare parts for Article no.		Protection plugs		Nozzle		Key D		Clamping wedge		Hollow key with nose	
		70 950 ...		70 950 ...		80 950 ...		70 950 ...		70 950 ...	
		£		£		£		£		£	
		2A/28		28		Y7		2A/28		2A/28	
74 584 532 / 74 585 532	UNJF 7/16"-20	19.29	05600	27.73	05500	14.16	115	59.25	860	42.87	05700
74 584 732 / 74 585 732	UNJF 7/16"-20	19.29	05600	27.73	05500	14.16	115	59.25	860	42.87	05700

HSK-T square shank adapter 0°

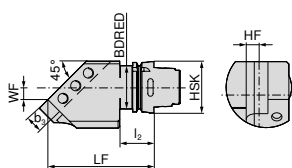


Illustrations show right-hand versions



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	2D/80		2D/80	
HSK T100 SH R/L 00 3232	HSK-T 100	145	45	88	15	87.5	32	32	443.44	525	443.44	532
									582.76	725	582.76	732

HSK-T square shank adapter 45°

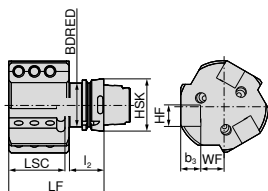


Illustrations show right-hand versions

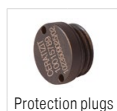


ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	b ₃ mm	HF mm	Left-hand		Right-hand	
								74 573 ...		74 572 ...	
								£		£	
HSK T63 SH R/L 45 2525	HSK-T 63	140	42	53	15	25	25	2D/80		2D/80	
HSK T100 SH R/L 45 3232	HSK-T 100	160	45	88	20	32	32	476.77	525	476.77	525
								611.27	732	611.27	732

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	2D/80	
HSK T100 SH3 L 00 2525	HSK-T 100	120	45	88	33	70	25	25	773.08	525
									1,095.83	725

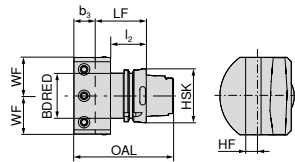


Spare parts

Adapter

HSK-T 100			UNJF 7/16"-20	19.29	05600	UNJF 7/16"-20	27.73	05500	42.87	05700	M12x1,75x25	2.13 851
HSK-T 63			UNJF 7/16"-20	19.29	05600	UNJF 7/16"-20	27.73	05500	42.87	05700	M12x1,75x25	2.13 851

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
HSK T100 SH N 90 3232	HSK-T 100	58	45	88	50	90	32	32

£

2D/80

452.90

525

611.27

732



Protection plugs

70 950 ...

£

2A/28

19.29

05600



Nozzle

70 950 ...

£

28

27.73

05500

Hollow key with
nose

70 950 ...

£

2A/28

42.87

05700



Grubscrew

70 950 ...

£

28

2.13

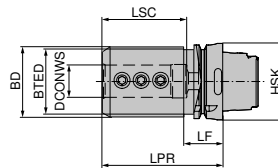
851

Spare parts

Adapter

HSK-T 100		UNJF 7/16"-20	19.29	05600	UNJF 7/16"-20	27.73	05500	42.87	05700	M12x1,75x25	2.13	851
HSK-T 63		UNJF 7/16"-20	19.29	05600	UNJF 7/16"-20	27.73	05500	42.87	05700	M12x1,75x25	2.13	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		
HSK T63 BH10 80	HSK-T 63	80	10	40	41		
HSK T63 BH12 80	HSK-T 63	80	12	40	41		
HSK T63 BH16 80	HSK-T 63	80	16	40	51		
HSK T63 BH20 80	HSK-T 63	80	20	50	51		
HSK T63 BH25 90	HSK-T 63	90	25	53	61		
HSK T63 BH32 95	HSK-T 63	95	32	68	61	42	53
HSK T100 BH20 90	HSK-T 100	90	20	55	56		
HSK T100 BH25 95	HSK-T 100	95	25	55	61		
HSK T100 BH32 110	HSK-T 100	110	32	68	61		
HSK T100 BH40 120	HSK-T 100	120	40	83	81		
HSK T100 BH50 125	HSK-T 100	125	50	98	91	45	88

£

2D/80

329.36

508

329.36

510

329.36

512

329.36

516

329.36

520

329.36

525

329.36

532

419.71

720

419.71

725

419.71

732

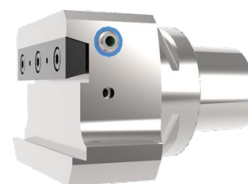
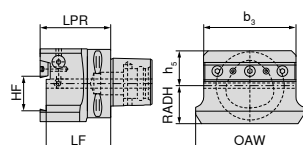
419.71

740

419.71

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

£

Y8

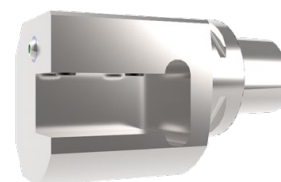
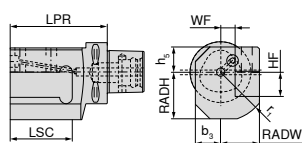
409.22

626

409.22

632

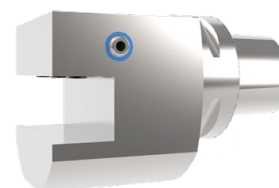
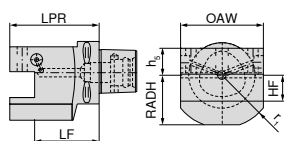
Square section adapter, single face



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	Left-hand		Right-hand	
										84 611 ...	£	84 610 ...	£
PSC 50	20	80	26	35	45	15	26	43	53	332.19	520	332.19	520
PSC 50	25	90	26	40	51	15	26	48	64	332.19	525	332.19	525
PSC 50	32	115	26	47	61	15	26	55	90	332.19	532	332.19	532
PSC 63	20	90	26	35	45	15	26	43	53	383.49	620	383.49	620
PSC 63	25	100	26	40	51	15	26	48	64	383.49	625	383.49	625
PSC 63	32	125	26	47	61	15	26	55	90	383.49	632	383.49	632
PSC 80	20	90	26	35	45	15	26	43	53	460.53	820	460.53	820
PSC 80	25	100	26	40	51	15	26	48	64	460.53	825	460.53	825
PSC 80	32	125	26	47	61	15	26	55	90	460.53	832	460.53	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

£

Y8

332.19

520

345.06

525

370.77

532

383.49

620

409.22

625

434.79

632

409.22

820

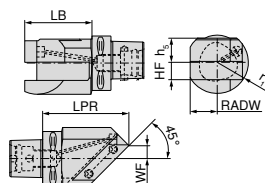
434.79

825

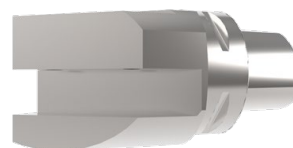
460.53

832

Square section adapter 45°



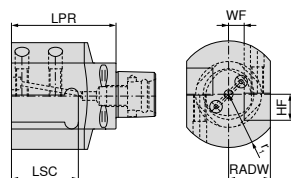
Illustrations show right-hand versions



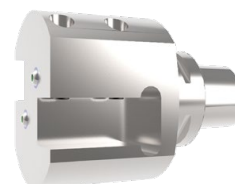
Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	h ₅ mm	LB mm
PSC 50	20	100	31	36	15	26	80
PSC 63	20	100	32	36	15	28	78
PSC 80	32	135	45	70	17	40	105

Left-hand		Right-hand	
84 605 ...		84 604 ...	
£		£	
Y8		Y8	
332.19	520	332.19	520
396.36	620	396.36	620
447.66	832	447.66	832

Square section adapter, double face



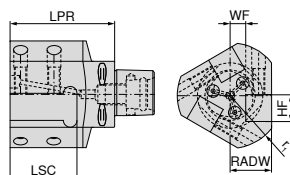
Illustrations show right-hand versions



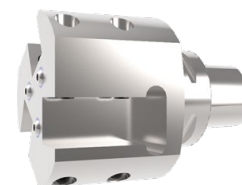
Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	LSC mm
PSC 50	20	80	35	45	15	53
PSC 50	25	90	40	51	15	64
PSC 50	32	115	47	61	15	90
PSC 63	20	90	35	45	15	53
PSC 63	25	100	40	51	15	64
PSC 63	32	125	47	61	15	90
PSC 80	20	90	35	45	15	53
PSC 80	25	100	40	51	15	64
PSC 80	32	125	47	61	15	90

Left-hand		Right-hand	
84 613 ...		84 612 ...	
£		£	
Y8		Y8	
563.13	520	563.13	520
575.99	525	575.99	525
588.71	532	588.71	532
588.71	620	588.71	620
601.58	625	601.58	625
614.44	632	614.44	632
704.17	820	704.17	820
717.06	825	717.06	825
729.91	832	729.91	832

Square section adapter, triple face



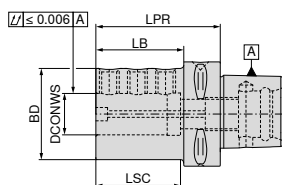
Illustrations show right-hand versions



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

Left-hand		Right-hand	
84 615 ...		84 614 ...	
£		£	
Y8		Y8	
755.48	520	755.48	520
768.35	525	768.35	525
794.05	532	794.05	532
883.81	620	883.81	620
922.26	625	922.26	625
947.98	632	947.98	632
1,063.43	820	1,063.43	820
1,089.03	825	1,089.03	825
1,114.74	832	1,114.74	832

Boring bar holder



						84 130 ...	
						£	
						Y8	
PSC 50	6	70	40	50	40	293.75	506
PSC 50	8	70	44	50	40	293.75	508
PSC 50	10	70	44	50	45	293.75	510
PSC 50	12	70	44	50	45	293.75	512
PSC 50	16	75	44	55	45	293.75	516
PSC 50	20	75	50	75	51	293.75	520
PSC 50	25	80	55	50	51	293.75	525
PSC 50	32	90	72	70	60	293.75	532
PSC 63	6	75	40	53	40	293.75	606
PSC 63	8	75	44	53	40	293.75	608
PSC 63	10	75	44	53	45	293.75	610
PSC 63	12	75	44	53	45	293.75	612
PSC 63	16	75	44	53	45	293.75	616
PSC 63	20	75	50	53	51	293.75	620
PSC 63	25	75	55	53	51	293.75	625
PSC 63	32	75	72	52	60	293.75	632
PSC 63	40	105	70	82	90	293.75	640



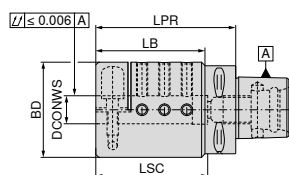
Grubscrew

Spare parts
DCONWS

			84 950 ...	
			£	
			Y8	
6		M6x16	6.76	153
8		M8x16	6.76	154
10		M10x16	6.76	155
12 - 40		M12x14	6.76	156

Boring bar adapter, split version

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

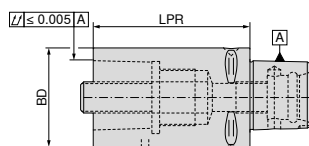


						84 131 ...	
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	£ Y8	
PSC 63	6	80	40	58	60	357.91	606
PSC 63	8	85	45	63	65	357.91	608
PSC 63	10	85	50	63	65	357.91	610
PSC 63	12	100	63	78	80	357.91	612
PSC 63	16	100	63	78	80	357.91	616
PSC 63	20	100	68	78	80	357.91	620
PSC 63	25	100	68	78	80	357.91	625
PSC 63	32	100	72	78	80	357.91	632

				Grubscrew		Grubscrew		Stop screw IK	
				83 950 ...		84 950 ...		81 950 ...	
				£ Y8		£ Y8		£ Y8	
Spare parts DCONWS	6							M5x15	2.97
	8	M6x20	3.44	462					
	10				M6x16	6.76	153		
	12 - 20	M8x20	3.44	468					
	25	M8x25	3.44	467					
	32	M10x20	3.44	471					

Extension, axial clamping

▲ Run out ≤ 0,002mm



			84 620 ...	
			£	
			Y8	
PSC 32	32	60	242.45	301
PSC 32	32	80	242.45	302
PSC 40	40	60	255.30	401
PSC 40	40	80	255.30	402
PSC 50	50	80	268.02	501
PSC 50	50	100	268.02	502
PSC 63	63	100	280.89	601
PSC 63	63	140	280.89	602
PSC 80	80	100	293.75	801
PSC 80	80	125	293.75	802

Spare parts

Adapter

		84 950 ...		84 950 ...	
		£		£	
		Y8		Y8	
PSC 32		41.15	127	29.87	122
PSC 40		41.15	128	33.67	123
PSC 50		41.15	129	33.67	124
PSC 63		82.16	130	37.47	126
PSC 80		82.16	130	37.47	126



Accessories

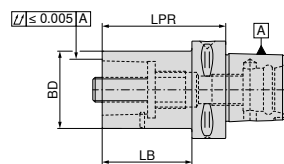


Hollow nose keys

→ 208

Cylindrical reduction

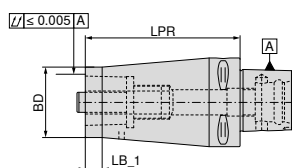
▲ Run out ≤ 0,002mm



				84 624 ...	
				£ Y8	
PSC 40	32	55	35	229.59	403
PSC 50	32	60	40	255.30	503
PSC 50	40	65	45	255.30	504
PSC 63	32	70	48	268.02	603
PSC 63	40	80	58	268.02	604
PSC 63	50	80	58	268.02	605
PSC 80	32	60	30	280.89	803
PSC 80	40	70	40	280.89	804
PSC 80	50	80	50	280.89	805
PSC 80	63	80	50	280.89	806
PSC 80X	63	80	48	370.77	816
PSC 80X	80	100	68	370.77	818

Tapered reduction

▲ Run out ≤ 0,002mm

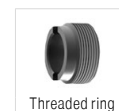


				84 625 ...	
				£ Y8	
PSC 40	32	70	12	229.59	403
PSC 50	40	85	12	255.30	504
PSC 63	50	110	12	268.02	605
PSC 80	63	120	12	293.75	806
PSC 80X	80	150	12	370.77	818

Spare parts

Adapter

PSC 40
PSC 50
PSC 63
PSC 80
PSC 80X



84 950 ...

£
Y8
41.15 128
41.15 129
82.16 130
82.16 130
82.16 130

84 950 ...

£
Y8
33.67 123
33.67 124
37.47 126
37.47 126
37.47 126

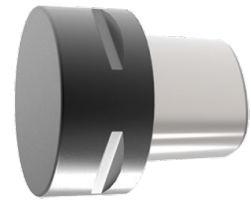
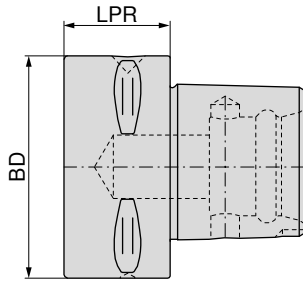
Accessories



Hollow nose keys

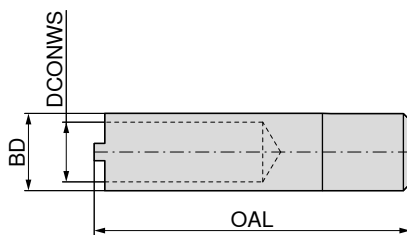
→ 208

Sealing plugs



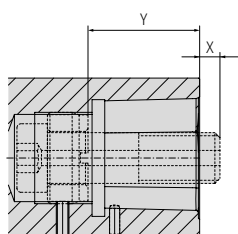
			84 135 ...	
Adapter	BD mm	LPR mm	£ Y8	
PSC 40	40	28	128.32	040
PSC 50	50	28	128.32	050
PSC 63	63	30	151.35	060
PSC 80	80	38	164.20	080

Hollow nose key for clamping screw for PSC extensions and reductions



				84 651 ...	
Adapter	BD mm	OAL mm	DCONWS mm	£ Y8	
PSC 32	16	80	12.5	66.82	032
PSC 40	20	80	15.0	70.53	040
PSC 50	22	90	17.0	70.53	050
PSC 63/80/80X	34	110	21.0	77.92	063

Installation instructions: clamping screw for PSC extensions and reductions

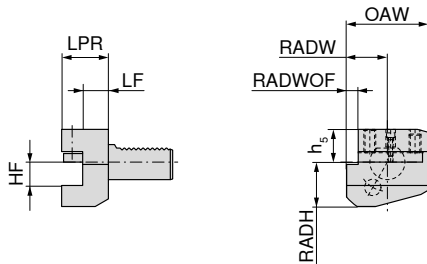


X = Screw leading edge
Y = Threaded ring insertion depth

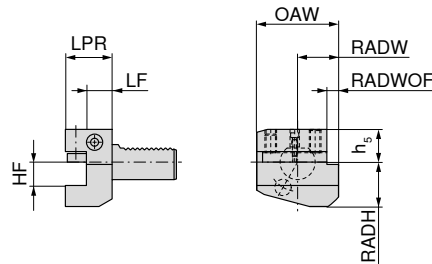
Threaded ring secured with threaded pin DIN 914.
Drilled threaded ring !

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

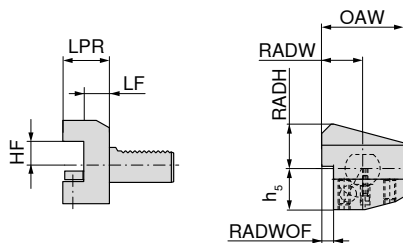


B1

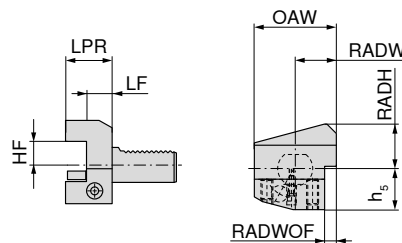
Adapter	HF 0/-0.1 mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF 0/+0.5 mm	LPR mm	Left-hand		Right-hand	
									82 189 ...		82 185 ...	
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24	£ Y8 258.01	160	£ Y8 185.47	160
VDI 16	12	42	23.0	5.0	20.0	22	23.0	34	210.11	161		
VDI 20	16	55	30.0	7.0	25.0	30	16.0	30	158.33	200	169.02	200
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	206.38	201	195.02	201
VDI 20	16	55	30.0	7.0	25.0	30	18.0	30	576.09	202 ¹⁾	550.62	202 ¹⁾
VDI 20	16	55	30.0	7.0	25.0	30	25.5	40			487.29	203 ¹⁾
VDI 25	16	55	30.0	7.0	25.0	30	16.0	30	337.63	250	265.39	250
VDI 30	20	70	35.0	10.0	28.0	38	18.5	40	171.45	300	155.44	300
VDI 30	20	70	35.0	10.0	28.0	35	32.0	50			1,199.17	302 ¹⁾
VDI 30	20	70	35.0	10.0	28.0	38	42.0	60	271.09	301	257.26	301
VDI 40	25	85	42.5	12.5	32.5	48	18.5	44	173.73	400	158.62	400
VDI 50	32	100	50.0	16.0	35.0	60	30.0	55	269.37	500	264.95	500

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, short



B4



B3



B4

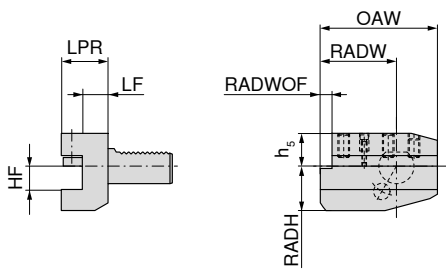


B3

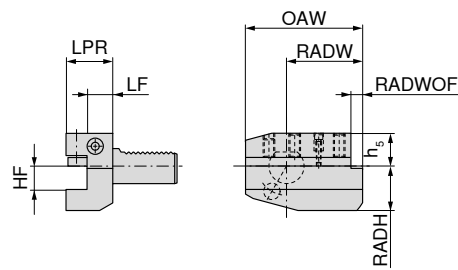
Adapter	HF 0/-0.1 mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF 0/+0.5 mm	LPR mm	Left-hand		Right-hand	
									82 196 ...		82 193 ...	
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24	£ Y8 195.51	160	£ Y8 195.51	160
VDI 20	16	55	30.0	7.0	25.0	30	16.0	30	167.33	200	169.02	200
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	367.83	201	245.37	201
VDI 20	16	55	30.0	7.0	25.0	30	18.5	30	720.42	202 ¹⁾	595.70	202 ¹⁾
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	959.78	203 ¹⁾	625.22	203 ¹⁾
VDI 25	16	55	30.0	7.0	25.0	30	16.0	30	352.80	250	272.10	250
VDI 30	20	70	35.0	10.0	35.0	38	42.0	60	271.09	301	271.09	301
VDI 30	20	70	35.0	10.0	35.0	38	18.5	40	173.73	300	160.16	300
VDI 40	25	85	42.5	12.5	42.5	48	18.5	44	178.47	400	169.38	400
VDI 50	32	100	50.0	16.0	50.0	60	30.0	55	316.54	500	269.37	500

1) Height adjustable +/- 1 mm

Radial tool holders, long



B6



B5



B6



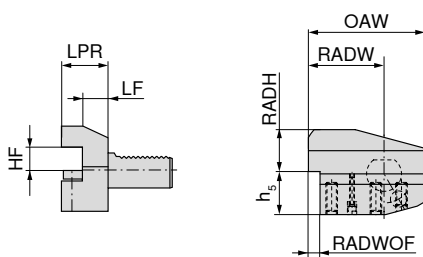
B5

Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50.0	7.0	25.0	30	16.0	30
VDI 20	16	75	50.0	7.0	25.0	30	26.0	40
VDI 20	16	75	50.0	7.0	25.0	30	18.0	30
VDI 30	20	100	65.0	10.0	28.0	38	18.5	40
VDI 30	20	100	65.0	10.0	28.0	38	42.0	60
VDI 40	25	118	75.5	12.5	32.5	48	18.5	44
VDI 50	32	130	80.0	16.0	35.0	60	30.0	55

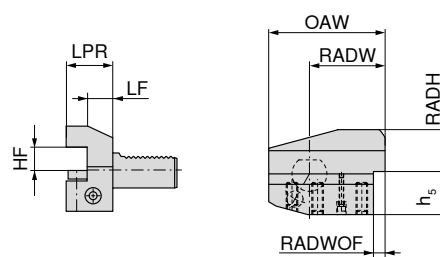
1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 202 ...		82 199 ...	
£		£	
Y8		Y8	
266.46	200	280.56	200
297.13	201	272.28	201
		699.66	202 ¹⁾
200.89	300	195.25	300
293.25	301	498.87	301
199.36	400	203.34	400
377.11	500	372.61	500

Radial tool holders, overhead, long



B8



B7



B8



B7

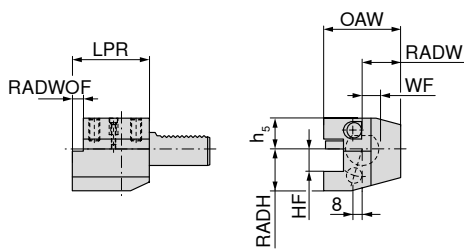
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50.0	7.0	25.0	30	16.0	30
VDI 20	16	75	50.0	7.0	25.0	30	26.0	40
VDI 20	16	75	50.0	7.0	25.0	30	18.0	30
VDI 30	20	100	65.0	10.0	35.0	38	18.5	40
VDI 30	20	100	65.0	10.0	35.0	38	42.0	60
VDI 40	25	118	75.5	12.5	42.5	48	18.5	44
VDI 50	32	130	80.0	16.0	50.0	60	30.0	55

1) Height adjustable +/- 1 mm

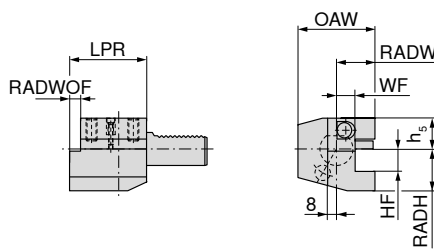
Left-hand		Right-hand	
82 208 ...		82 205 ...	
£		£	
Y8		Y8	
282.18	200	227.51	200
		371.09	201
		688.52	202 ¹⁾
229.56	300	200.89	300
		296.73	301
222.69	400	222.69	400
362.28	500	378.96	500

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

Axial tool holders



C2



C1

C2

C1

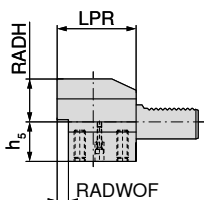


Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	WF 0/+0,3 mm	h ₅ mm	RADH mm	LPR mm
VDI 16	12	43	24.0	13.0	20.0	22	44
VDI 20	16	65	40.0	26.0	25.0	30	50
VDI 20	16	65	40.0	25.5	25.0	30	50
VDI 20	16	52	27.0	13.0	25.0	30	55
VDI 25	16	58	33.0	19.0	25.0	30	55
VDI 30	20	70	35.0	17.0	28.0	38	70
VDI 30	20	76	41.0	23.0	28.0	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

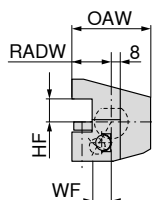
1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 214 ...		82 211 ...	
£ Y8		£ Y8	
		254.27	160
197.54	200	199.97	201
		712.47	202 ¹⁾
		232.98	200
242.98	250	244.65	250
		180.30	300
192.18	300		
212.18	400	209.74	400
		305.82	500
383.37	500		

Axial tool holders, overhead



C4



C3

C4

C3

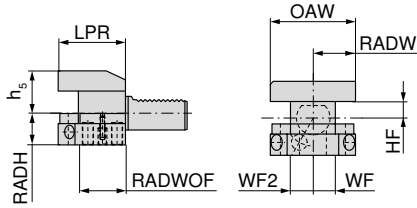


Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	WF 0/+0,3 mm	h ₅ mm	RADH mm	LPR mm
VDI 16	12	43	24.0	13.0	20.0	22	44
VDI 20	16	65	40.0	26.0	25.0	30	50
VDI 20	16	65	40.0	25.5	30.0	25	50
VDI 20	16	65	40.0	25.5	25.0	30	50
VDI 20	16	52	27.0	13.0	25.0	30	55
VDI 25	16	58	33.0	19.0	25.0	30	55
VDI 30	20	70	35.0	17.0	35.0	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

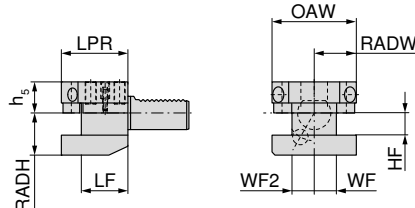
1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 220 ...		82 217 ...	
£ Y8		£ Y8	
		229.14	160
211.42	200	241.61	201
		918.67	202 ¹⁾
741.90	201 ¹⁾	287.27	200
267.68	250	267.68	250
		184.13	300
193.71	300		
212.18	400	212.18	400
		311.16	500
264.95	500		

Multiple tool holders



D2



D1



Adapter	HF 0/-0,1 mm	RADW mm	WF 0/+0,3 mm	WF2 0/+0,3 mm	OAW mm	h ₅ mm	RADH mm	LF 0/+0,5 mm	LPR mm
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 ...

£
Y8

437.83

250

423.89

300

443.87

400

82 222 ...

£
Y8

417.93

250

423.89

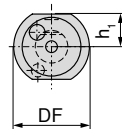
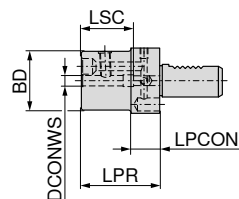
300

443.87

400

Cylindrical tool holders

- ▲ for tools with cylindrical shank to DIN 6535 and DIN 1835 Form E (Whistle Notch)
- ▲ Coolant supply either centrally through the tool or via the adjustable ball spray nozzles



E



Cooling through nozzle

Adapter	DCONWS mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm
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

83 269 ...

£
Y8

284.77

206

272.10

208

272.10

210

272.10

212

272.10

214

262.96

216

262.96

218

262.96

220

294.08

306

281.57

308

281.57

310

281.57

312

271.82

314

270.59

316

281.57

318

270.59

320

328.39

406

315.90

408

315.90

410

315.90

412

315.90

414

305.07

416

305.07

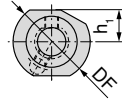
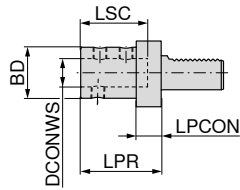
418

305.07

420

Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply



E1



AD

82 274 ...

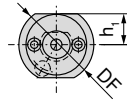
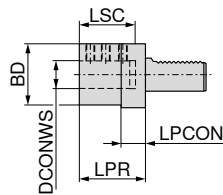
Adapter	DCONWS _{H6} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	£ Y8	
VDI 20	16	50	36	23.0	67	18	54	151.32	200
VDI 20	20	50	40	23.0	67	18	54	151.32	201
VDI 20	25	50	45	23.0	71	18	59	151.32	202
VDI 25	16	58	36	25.0	67	18	54	222.69	250
VDI 25	20	58	40	25.0	67	18	54	222.69	251
VDI 25	25	58	45	25.0	71	18	59	222.69	252
VDI 30	16	68	36	28.0	67	22	54	140.19	300
VDI 30	20	68	40	28.0	67	22	54	140.19	301
VDI 30	25	68	45	28.0	71	22	59	140.19	302
VDI 30	32	68	52	28.0	75	22	63	140.19	303
VDI 30	40	68	60	28.0	87	22	73	203.53	304
VDI 40	16	83	36	32.5	67	22	54	158.62	400
VDI 40	20	83	40	32.5	67	22	54	158.62	401
VDI 40	25	83	45	32.5	75	22	59	158.62	402
VDI 40	32	83	52	32.5	75	22	63	158.62	403
VDI 40	40	83	60	32.5	90	22	73	158.62	404
VDI 50	20	98	40	35.0	80	30	54	224.06	500
VDI 50	25	98	45	35.0	80	30	59	224.06	501
VDI 50	32	98	52	35.0	80	30	63	224.06	502
VDI 50	40	98	60	35.0	90	30	73	224.06	503
VDI 50	50	98	70	35.0	100	30	83	202.81	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 ...

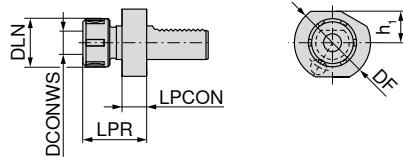
Adapter	DCONWS _{H7} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	£ Y8	
VDI 16	6	40	32	18.0	44	13	34	229.38	160 ¹⁾
VDI 16	8	40	32	18.0	44	13	34	175.05	161 ¹⁾
VDI 16	10	40	32	18.0	44	13	34	175.05	162 ¹⁾
VDI 16	12	40	40	18.0	44	13	34	175.05	163 ¹⁾
VDI 16	16	40	40	18.0	44	13	34	175.05	164 ¹⁾
VDI 20	8	50	40	23.0	50	18	41	162.75	200
VDI 20	10	50	40	23.0	50	18	41	162.75	201
VDI 20	12	50	40	23.0	50	18	41	162.75	202
VDI 20	16	50	40	23.0	50	18	41	162.75	203
VDI 20	20	50	50	23.0	50	18	41	162.75	204
VDI 20	25	50	50	23.0	60	18	51	162.75	205
VDI 25	8	58	40	25.0	50	18	41	265.39	250
VDI 25	10	58	40	25.0	50	18	41	265.39	251
VDI 25	12	58	40	25.0	50	18	41	265.39	252
VDI 25	16	58	40	25.0	50	18	41	265.39	253
VDI 25	20	58	58	25.0	50	18	41	265.39	254
VDI 25	25	58	58	25.0	60	18	51	265.39	255
VDI 30	8	68	55	28.0	60	22	51	158.62	300
VDI 30	10	68	55	28.0	60	22	51	158.62	301
VDI 30	12	68	55	28.0	60	22	51	158.62	302
VDI 30	16	68	55	28.0	60	22	51	158.62	303
VDI 30	20	68	55	28.0	60	22	51	158.62	304
VDI 30	25	68	55	28.0	60	22	51	158.62	305
VDI 30	32	68	68	28.0	75	22	61	158.62	306
VDI 40	8	83	55	32.5	75	22	61	161.70	400
VDI 40	10	83	55	32.5	75	22	61	161.70	401
VDI 40	12	83	55	32.5	75	22	61	161.70	402
VDI 40	16	83	55	32.5	75	22	61	161.70	403
VDI 40	20	83	55	32.5	75	22	61	161.70	404
VDI 40	25	83	55	32.5	75	22	61	161.70	405
VDI 40	32	83	83	32.5	75	22	61	161.70	406
VDI 40	40	83	83	32.5	90	22	76	161.70	407
VDI 50	12	98	68	35.0	90	30	76	232.92	500
VDI 50	16	98	68	35.0	90	30	76	232.92	501
VDI 50	20	98	68	35.0	90	30	76	232.92	502
VDI 50	25	98	68	35.0	90	30	76	223.31	503
VDI 50	32	98	68	35.0	90	30	76	223.31	504
VDI 50	40	98	98	35.0	90	30	76	223.31	505
VDI 50	50	98	98	35.0	100	30	86	223.31	506

1) Coolant supply through pipe joint

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

OZ-Collet chuck

E3

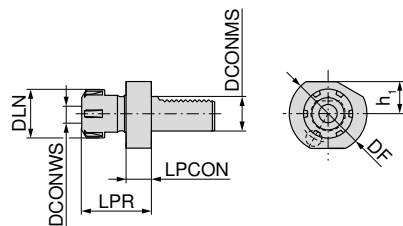


								82 285 ...	
Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	£ Y8	
VDI 20	2 - 16	50	43	23.0	57	18	415E / 421E (OZ)	293.25	202
VDI 30	2 - 16	68	43	28.0	57	22	415E / 421E (OZ)	300.98	301
VDI 30	2 - 25	68	60	28.0	75	22	459E / 462E (OZ)	300.98	302
VDI 40	2 - 25	83	60	32.5	75	22	459E / 462E (OZ)	314.83	402
VDI 40	4 - 32	83	72	32.5	90	22	460E / 467E (OZ)	328.65	403
VDI 50	2 - 25	98	60	35.0	75	30	459E / 462E (OZ)	476.95	500
VDI 50	4 - 32	98	72	35.0	90	30	460E / 467E (OZ)	470.61	501

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

ER Collet chucks

E4



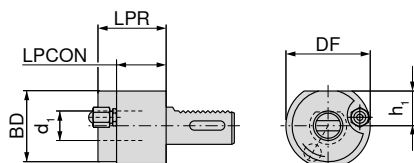
								82 286 ...	
Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	£ Y8	
VDI 16	1 - 10	40	28	18.0	45.5	14	426E (ER16)	267.40	160
VDI 16	1 - 13	40	34	18.0	44.0	14	428E (ER20)	264.61	161
VDI 20	1 - 16	50	42	23.0	57.0	18	430E (ER25)	217.82	202
VDI 20	2 - 20	50	50	23.0	62.0	18	470E (ER32)	227.73	203
VDI 25	1 - 16	58	42	25.0	57.0	18	430E (ER25)	359.96	250
VDI 25	2 - 20	58	50	25.0	62.0	18	470E (ER32)	364.40	251
VDI 30	1 - 16	68	42	28.0	57.0	22	430E (ER25)	215.01	300
VDI 30	2 - 20	68	50	28.0	75.0	22	470E (ER32)	215.21	301
VDI 40	1 - 16	83	42	32.5	63.0	22	430E (ER25)	233.13	400
VDI 40	2 - 20	83	50	32.5	75.0	22	470E (ER32)	233.13	401
VDI 40	3 - 26	83	63	32.5	75.0	22	472E (ER40)	228.95	402
VDI 50	2 - 20	94	50	35.0	75.0	30	470E (ER32)	339.54	500
VDI 50	3 - 26	94	63	35.0	63.0	30	472E (ER40)	339.54	501

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

Morse taper adapters

▲ For taper shanks with ejector tang

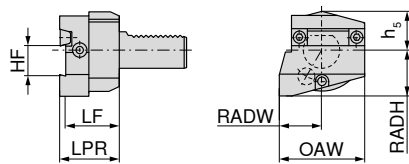
F1



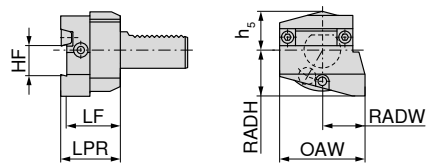
							82 277 ...	
							£	
							Y8	
VDI 20	MK1		50	23.0	23		161.42	200
VDI 20	MK2		50	23.0	87		161.42	201
VDI 30	MK1		68	28.0	27		158.47	300
VDI 30	MK2		68	28.0	27		159.56	301
VDI 30	MK3	58	68	28.0	55	40	159.56	302
VDI 40	MK2	55	83	32.5	36	22	162.45	401
VDI 40	MK3	58	83	32.5	36	22	162.45	402
VDI 40	MK4	68	83	32.5	80	22	162.45	403
VDI 50	MK2	55	98	35.0	36	30	246.35	500
VDI 50	MK3	58	98	35.0	36	30	246.35	501
VDI 50	MK4	68	98	35.0	50	30	246.35	502

Parting blade holders, height adjustable

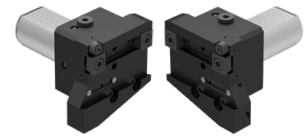
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



left



right

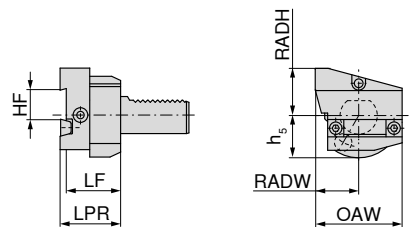


Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm
VDI 25	53	28.0	26	25.0	30	35	40
VDI 30	70	35.0	26	28.0	38	44	49
VDI 30	70	35.0	32	30.5	38	44	49
VDI 40	73	42.5	26	32.0	48	44	49
VDI 40	85	42.5	32	32.0	48	44	49

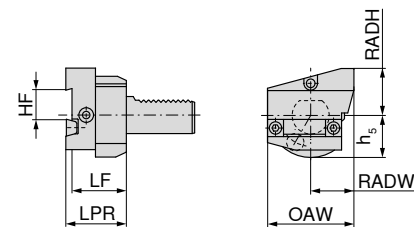
Left-hand 82 237 ...		Right-hand 82 236 ...	
£		£	
Y8		Y8	
		677.41	250
569.84	300	569.84	300
722.55	302	722.55	302
748.57	040	748.57	040
673.41	400	587.16	400

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

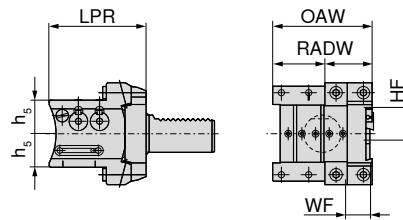
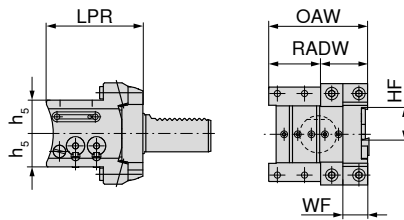


Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm
VDI 30	70	35.0	26	34.0	38	44	49
VDI 30	70	35.0	32	30.5	38	44	49
VDI 40	73	42.5	26	32.0	48	44	49
VDI 40	85	42.5	32	32.0	48	44	49

Left-hand 82 243 ...		Right-hand 82 242 ...	
£		£	
Y8		Y8	
856.58	300	856.58	300
722.55	302	810.18	302
748.57	040	748.57	040
586.33	400	586.33	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

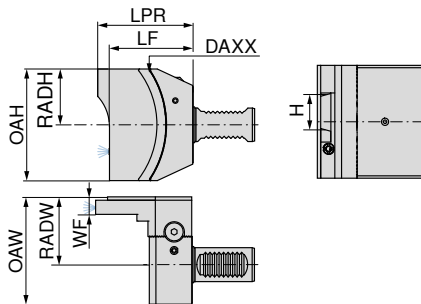


Adapter	OAW mm	RADW mm	HF mm	h ₅ mm	WF mm	LPR mm
VDI 30	80	40	26	27	20	78
VDI 40	80	40	26	27	20	88
VDI 40	80	40	32	32	20	88

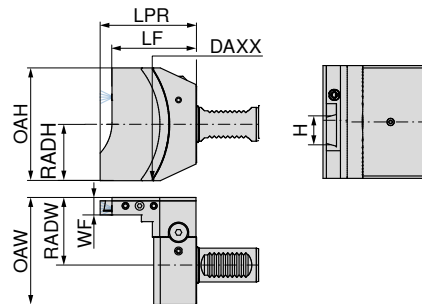
Universal-overhead		Universal	
82 244 ...		82 238 ...	
£		£	
Y8		Y8	
1,150.88	300	1,150.88	300
1,276.98	400	1,276.98	400
1,276.98	402	1,276.98	402

Parting blade holder

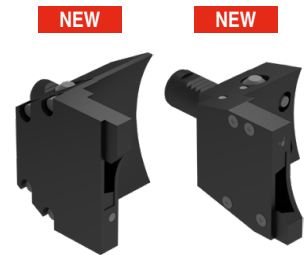
- ▲ doubles = reciprocally interlocked VDI shank



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 ...	
£		£	
Y7		Y7	
1,240.61	02629 ¹⁾	1,240.61	02629 ¹⁾
1,240.61	02628 ¹⁾	1,240.61	03228 ¹⁾
1,240.61	02627 ¹⁾	1,240.61	02627 ¹⁾
1,337.82	03226 ¹⁾	1,337.82	03226 ¹⁾
1,337.82	02626 ¹⁾	1,337.82	02626 ¹⁾

1) Not ex-stock

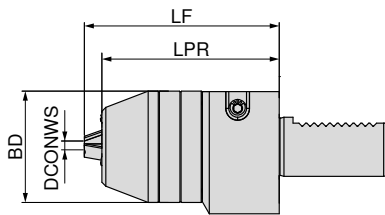
 With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

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

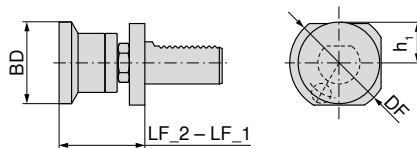


					84 297 ...	
Adapter	DCONWS mm	BD mm	LPR mm	LF mm	£ Y8	
VDI 20	0,5 - 10	48.5	40	50	561.90	210 ¹⁾
VDI 30	0,5 - 13	56.5	90	99	566.19	313
VDI 30	2,5 - 16	56.5	90	99	600.82	316
VDI 40	0,5 - 13	56.5	90	99	566.19	413
VDI 40	2,5 - 16	56.5	90	99	600.82	416

1) Without Through Coolant

Material stops

- ▲ Revolving, length adjustable

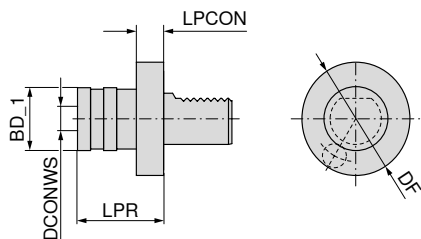


						83 292 ...	
Adapter	BD mm	DF mm	h ₁ mm	LF_2 mm	LF_1 mm	£ Y8	
VDI 20	26	50	23.0	50	70	563.23	200 ¹⁾
VDI 20	32	50	23.0	50	70	600.77	201 ¹⁾
VDI 20	42	50	23.0	50	70	587.69	202 ¹⁾
VDI 30	32	68	28.0	62	95	404.60	300
VDI 30	42	68	28.0	62	95	404.60	301
VDI 30	58	68	28.0	62	95	412.45	302
VDI 40	32	83	32.5	62	95	445.38	400
VDI 40	42	83	32.5	62	95	445.38	401
VDI 40	58	83	32.5	62	95	445.38	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	£ Y8	
VDI 20	M3 - M12	01	19	38	55	9	624.31	112
VDI 25	M3 - M12	01	19	38	55	9	624.31	212
VDI 30	M3 - M12	01	19	38	55	9	478.63	312
VDI 40	M3 - M12	01	19	38	55	9	536.30	412
VDI 20	M6 - M20	02	31	55	77	15	681.95	120
VDI 25	M6 - M20	02	31	55	77	15	681.95	220
VDI 30	M6 - M20	02	31	55	77	15	632.54	320
VDI 40	M6 - M20	02	31	55	77	15	660.12	420

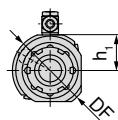
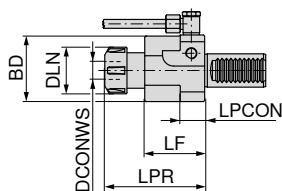


Quick change adapters can be found on → **Page 277–281.**

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	£ Y8	
VDI 20	0,5 - 10	28	45	50	23.0	65	40	18	6,0 / 1,5	4031E (ER16)	803.85	213
VDI 30	1 - 16	42	62	68	28.0	90	54	42	8,0 / 2,0	4282E (ER25)	807.64	316
VDI 40	1 - 16	42	62	83	32.5	85	49	42	8,0 / 2,0	4282E (ER25)	807.64	416



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

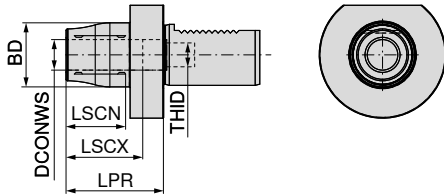
Hydraulic chuck

- ▲ 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 ...

£

Y8

782.27 02027

817.05 02026

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



Stop screw IK

83 950 ...

£

Y7

M16x1x31 - SW5 25.84 48700

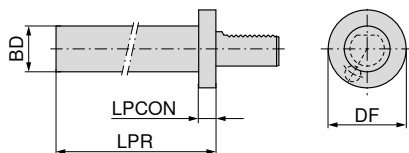
Spare parts

DCONWS

20

Test arbors

- ▲ Radial run-out ≤ 0.02 mm



83 324 ...

£

Y8

358.33 016

389.76 020

420.97 030

444.22 040

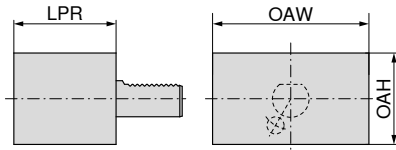
485.29 050

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

Tool holders, rough machined, rectangular

▲ Manufactured from C45

A1

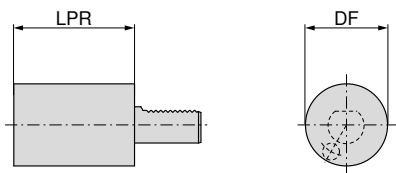


Adapter	LPR mm	OAW mm	OAH mm	82 327 ...	
				£ Y8	
VDI 16	44	78	44	168.70	160
VDI 20	65	100	60	292.17	200
VDI 25	75	100	60	229.56	250
VDI 30	85	130	76	293.25	300
VDI 40	100	151	96	318.08	400
VDI 50	125	160	120	443.43	500

Tool holders, rough machined, round

▲ Manufactured from C45

A2

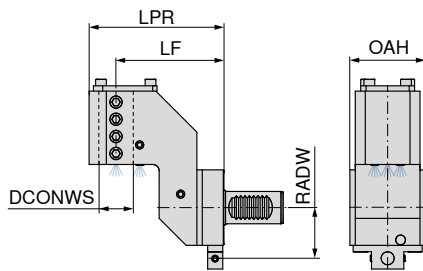


Adapter	LPR mm	DF mm	82 330 ...	
			£ Y8	
VDI 16	60	40	121.57	160
VDI 20	70	50	106.05	200
VDI 25	80	58	166.43	250
VDI 25	200	58	191.27	253
VDI 30	100	68	124.26	300
VDI 30	240	68	150.90	303
VDI 40	120	83	145.61	400
VDI 40	320	83	219.85	403
VDI 50	135	98	204.46	500
VDI 50	400	98	330.09	502

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

£
Y71,112.92 02528¹⁾1,301.36 03227¹⁾1,526.23 04026¹⁾

1) Not ex-stock

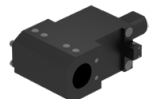
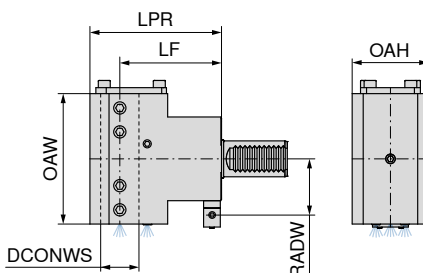


With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

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

£
Y71,253.00 02528¹⁾1,331.75 03227¹⁾1,331.75 13227¹⁾1,444.17 04026¹⁾

1) Not ex-stock

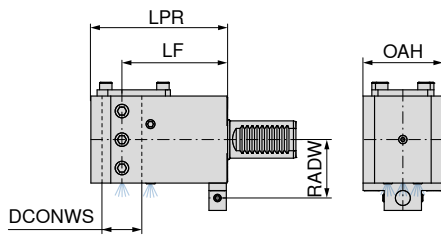


With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

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		£ Y7	
VDI 25	25	100	75	60	40		739.50	02528 ¹⁾
VDI 30	32	110	85	64	47		866.54	03227 ¹⁾
VDI 30	32	125	100	64	47		900.03	13227 ¹⁾
VDI 40	40	130	100	76	56		1,088.48	04026 ¹⁾
VDI 40	40	152	120	76	56		1,125.06	14026 ¹⁾
VDI 50	50	155	120	98	64		1,298.24	05025 ¹⁾

1) Not ex-stock

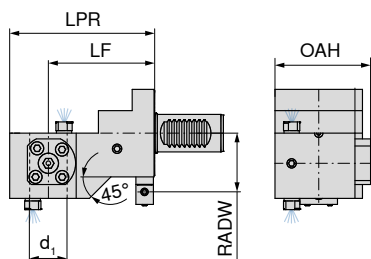


With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

90° VDI to VDI adapter, double sided

- ▲ for rotating toolholder

NEW



83 225 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm		£ Y7	
VDI 25	25	104	75	38.0	40		933.50	02528 ¹⁾
VDI 25	20	104	75	67.5	40		933.50	02028 ¹⁾
VDI 30	30	116	85	76.5	47		1,073.37	03027 ¹⁾
VDI 30	30	131	100	76.5	47		1,106.69	13027 ¹⁾
VDI 40	40	133	100	89.0	56		1,298.24	04026 ¹⁾
VDI 40	40	153	120	89.0	56		1,298.24	14026 ¹⁾

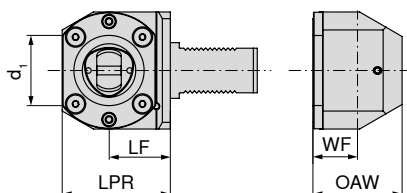
1) Not ex-stock

90° VDI to PSC adapter

Scope of supply:

including pull stud

NEW



						90°	
						83 231 ...	
						£	
						Y7	
VDI 30	PSC 40	41	65	21	56	1,354.12	04027 ¹⁾
VDI 40	PSC 40	51	75	30	86	1,414.88	04026 ¹⁾
VDI 40	PSC 50	53	85	40	80	1,414.88	05026 ¹⁾
VDI 40	PSC 63	53	95	40	80	1,491.11	06326 ¹⁾
VDI 50	PSC 50	53	85	40	80	1,414.88	05025 ¹⁾
VDI 50	PSC 63	55	97	40	80	1,491.11	06325 ¹⁾

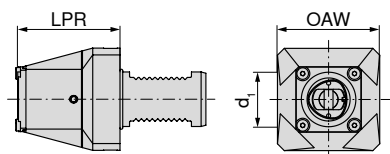
1) Not ex-stock

VDI to PSC adapter

Scope of supply:

including pull stud

NEW

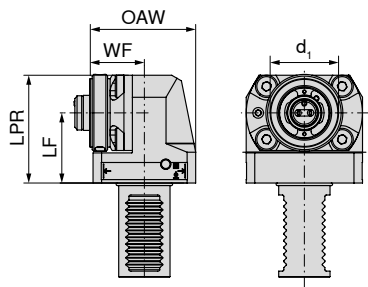


				83 232 ...	
				£	
				Y7	
VDI 30	PSC 40	70	60	1,354.12	04027 ¹⁾
VDI 40	PSC 40	75	75	1,354.12	04026 ¹⁾
VDI 40	PSC 50	85	82	1,414.88	05026 ¹⁾
VDI 40	PSC 63	90	105	1,491.11	06326 ¹⁾
VDI 50	PSC 50	85	91	1,414.88	05025 ¹⁾
VDI 50	PSC 63	100	105	1,491.11	06325 ¹⁾

1) Not ex-stock

90° VDI to HSK-T adapter

NEW



90°

83 233 ...

£

Y7

1,354.12 04027¹⁾

1,354.12 04026¹⁾

1,491.11 06326¹⁾

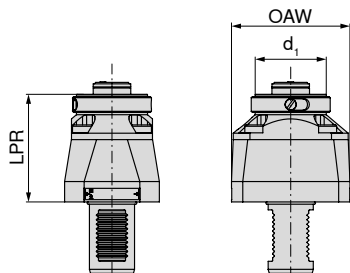
1,491.11 06325¹⁾

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

1) Not ex-stock

VDI to HSK-T adapter

NEW



83 234 ...

£

Y7

1,467.08 04027¹⁾

1,467.08 04026¹⁾

1,615.38 06326¹⁾

1,615.38 06325¹⁾

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

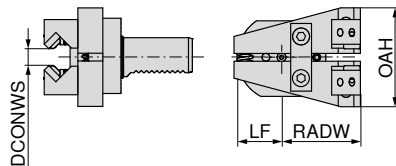
1) Not ex-stock

Bar pullers for disc turrets, radial

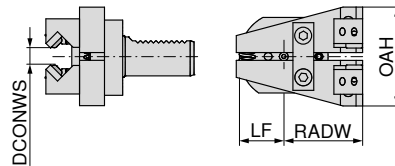
- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ GA = Gripper set

Scope of supply:

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



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

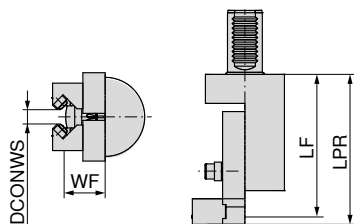
Left-hand		Right-hand	
80 309 ...		80 306 ...	
£		£	
Y7		Y7	
		1,736.82	01600
		2,052.71	02000
2,052.71	03000	2,052.71	03000
2,872.39	04000	2,872.39	04000

Bar pullers for star turrets

- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ 90° angle head
- ▲ GA = Gripper set

Scope of supply:

Bar puller with GA 3

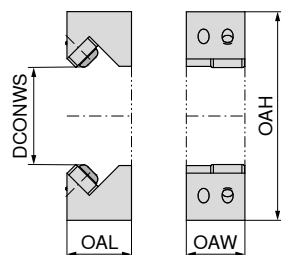


Adapter	DCONWS mm	LF mm	LPR mm	WF mm	GA
VDI 30	2 - 42	122.5	129	37.0	3 - 4
VDI 40	2 - 65	142.5	149	41.5	3 - 4

Left-hand	
80 310 ...	
£	
Y7	
2,254.96	03000
2,947.11	04000

Gripper accessories

- ▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...
▲ Price per pair

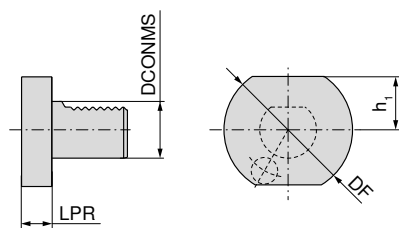


NEW

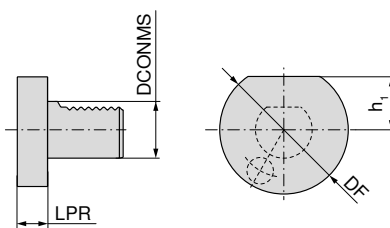


GA	DCONWS mm	OAL mm	OAW mm	OAH mm	80 312 ...	
					£ Y7	
1	2 - 22	24.5	13	58	375.70	12200
3	2 - 42	26.0	22	86	375.70	14200
4	42 - 65	29.5	22	102	502.71	16500

Protection plugs



Steel



Plastic

Z2

Z2



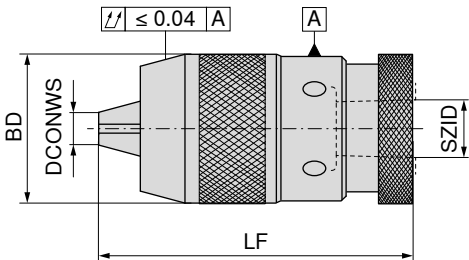
Steel				Plastic			
82 317 ...				83 318 ...			
DCONMS _{h8} mm	DF mm	h ₁ mm	LPR mm	£ Y8		£ Y8	
16	40	18.0	16	36.81	160	30.77	160
20	50	23.0	16	73.09	200	12.47	200
25	58	25.0	16	55.65	250		
30	68	28.0	16	39.05	300	12.44	300
40	83	32.5	20	45.92	400	14.33	400
50	98	35.0	20	89.93	500	20.38	500

Drill chuck

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

Scope of supply:

Holder with clamping key



				83 636 ...	
				£	
				Y8	
B12	0 - 8	73	35	154.05	012
B12	0 - 10	92	43	182.16	112
B16	1 - 13	106	50	218.33	016
B16	3 - 16	110	57	178.26	116
B18	3 - 16	110	57	232.48	018

Spare parts

DCONWS

0 - 10	17.40	010
0 - 8	16.33	008
1 - 13	14.36	013
3 - 16	17.06	016



NC clamping key

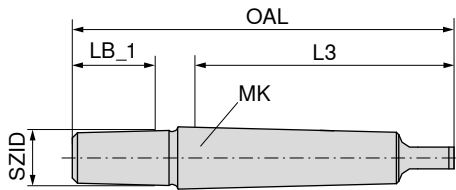
83 302 ...

£	
Y8	
17.40	010
16.33	008
14.36	013
17.06	016

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

Drill chuck adapter DIN 238

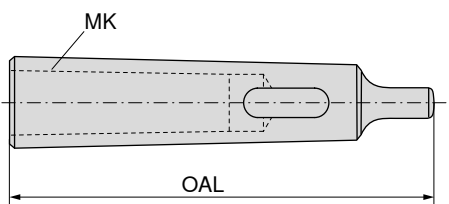
▲ Through-hardened and ground



					83 642 ...	
Adapter	SZID	l ₃ mm	LB_1 mm	OAL mm	£ Y8	
MK1	B12	62.0	18.5	89.0	14.24	120
MK1	B16	62.0	24.0	97.0	14.24	160
MK1	B18	62.0	32.0	106.0	14.24	180
MK2	B12	75.0	18.5	106.5	14.24	121
MK2	B16	75.0	24.0	110.5	14.24	161
MK2	B18	75.0	32.0	117.5	14.54	181
MK3	B12	94.0	18.5	125.0	14.24	122
MK3	B16	94.0	24.0	134.0	14.24	162
MK3	B18	94.0	32.0	141.0	19.33	182
MK4	B16	117.5	24.0	159.0	32.70	163
MK4	B18	117.5	32.0	168.0	32.70	183
MK5	B16	149.5	24.0	196.0	123.33	164
MK5	B18	149.5	32.0	204.5	123.33	184

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



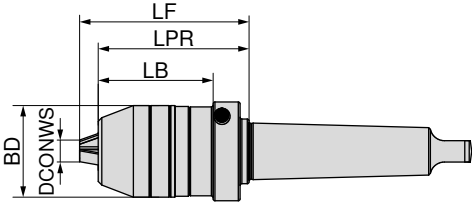
			83 644 ...	
Adapter	d ₁	OAL mm	£ Y8	
MK1	MK0	80	24.15	010
MK2	MK1	92	25.90	020
MK3	MK1	99	27.79	130
MK3	MK2	112	29.68	030
MK4	MK1	124	36.87	240
MK4	MK2	124	36.87	140
MK4	MK3	140	53.80	040
MK5	MK2	156	70.30	250
MK5	MK3	156	74.07	150
MK5	MK4	171	77.48	050

Short drill chuck – NC 2010

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

Scope of supply:

Holder with clamping key



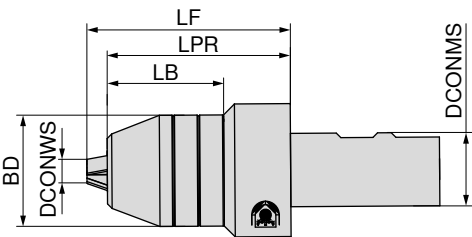
						84 314 ...	
Adapter	DCONWS mm	BD mm	LB mm	LPR mm	LF mm	£ Y8	
MK3	0,5 - 13	48.5	64	84	93.0	460.79	313
MK3	2,5 - 16	51.0	64	84	94.5	475.43	316
MK4	2,5 - 16	51.0	64	84	94.5	509.29	416

Short drill chuck – NC 2010

- ▲ bidirectional
- ▲ Torque moment = 12 Nm
- ▲ with cylindrical shank

Scope of supply:

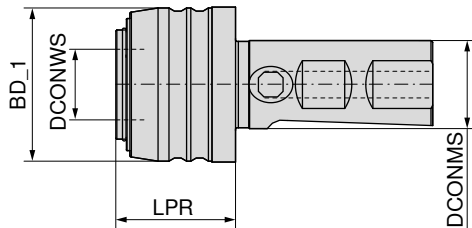
Holder with clamping key



						G 6,3 n _{max} 10000	
						84 311 ...	
DCONMS mm	DCONWS mm	BD mm	LB mm	LPR mm	LF mm	£ Y8	
25	0,5 - 13	48.5	50.9	80	89.0	509.12	213
32	0,5 - 13	48.5	50.9	80	89.0	509.12	313
32	2,5 - 16	51.0	50.9	80	90.5	642.61	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 ...

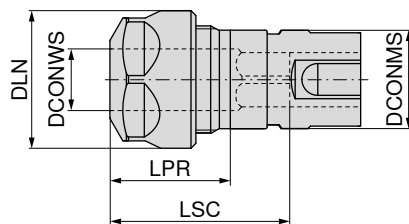
DCONWS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONMS mm	LZD± mm	£ Y8	
20	M3 - M12	1	35	43.5	25	1,0 / 0,2	236.58	012
32	M6 - M20	2	56	60.0	25	1,0 / 0,2	269.66	020

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	£ Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	195.17	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	227.34	020



Lock nut



Lock nut IK



Lock nut



Y clamping key

62 950 ...

83 950 ...

62 950 ...

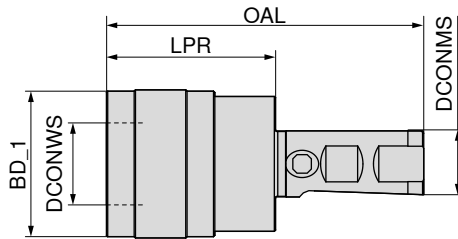
83 357 ...

Spare parts for Article no.

	£ W7		£ Y8		£ W7		£ Y8	
83 608 012	26.65	044	68.61	054	21.20	054	23.31	116
83 608 020			79.92	055	22.08	055	23.31	125

Quick change tap chuck with length compensation

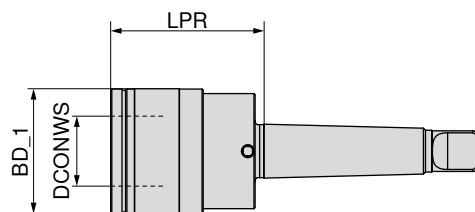
- ▲ With cylindrical shank
- ▲ With length compensation under tension and compression (LZD)
- ▲ Quick change adapters



DCONMS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	OAL mm	LZD± mm	83 648 ...	
								£	
								Y8	
20	M3 - M12	01	41	38	19	91	9	350.37	112
20	M6 - M20	02	63	55	31	138	15	480.15	120
25	M3 - M12	01	41	38	19	97	9	350.37	212
25	M6 - M20	02	63	55	31	119	15	432.72	220
32	M3 - M12	01	41	38	19	102	9	357.68	312
32	M6 - M20	02	63	55	31	124	15	447.69	320

DIN 228B – Quick change tap chuck with length compensation

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



Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 646 ...	
							£	
							Y8	
MK 2	M3 - M12	01	46	38	19	9	305.24	212
MK 3	M3 - M12	01	46	38	19	9	300.17	312
MK 3	M6 - M20	02	69	55	31	15	375.39	320
MK 4	M6 - M20	02	70	55	31	15	375.39	420

Accessories

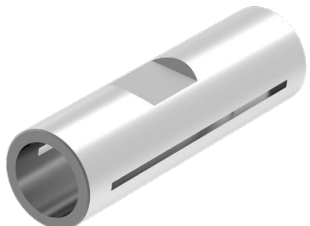
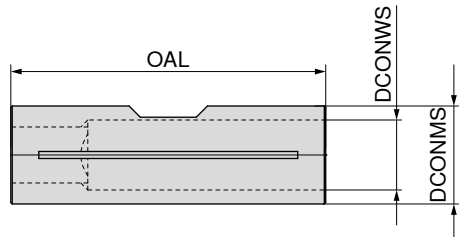


Collet

→ 277, 279-281

Clamping sleeve for taps in Weldon chucks

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

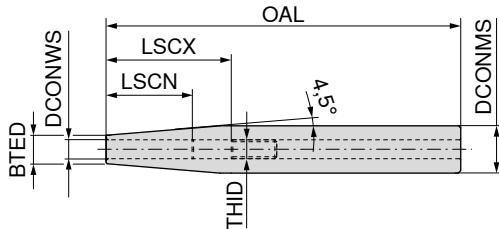


			80 699 ...	
DCONWS _{H7}	DCONMS _{f6}	OAL	£	
mm	mm	mm	Y7	
3.5	6	26	74.76	03500
4.0	8	32	72.45	04000
4.5	8	26	72.45	04500
6.0	10	30	70.02	06000
7.0	10	31	70.02	07000
8.0	12	38	70.02	08000
9.0	12	38	70.02	09000
10.0	14	42	70.02	10000
11.0	14	42	70.02	11000
12.0	16	44	70.02	12000
14.0	18	45	70.02	14000
16.0	20	46	70.02	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	DCONWS	BTED	OAL	LSCX	LSCN	THID	DRVS	
mm		mm	mm	mm	mm	mm	mm	mm	£ Y8
12		3	8	150					211.11 003
12		4	8	150					211.11 004
12		5	10	150					211.11 005
12		6	10	150	36	26	M5	2.5	211.11 006
16		3	10	150					211.11 103
16		4	10	150					211.11 104
16		5	10	150					211.11 105
16		6	10	150	36	26	M5	2.5	211.11 106
16		8	12	150	36	26	M6	3.0	211.11 108
20		3	10	150					211.11 203
20		4	10	150					211.11 204
20		5	10	150					211.11 205
20		6	10	150	36	26	M5	2.5	211.11 206
20		8	12	150	36	26	M6	3.0	211.11 208
20		10	14	150	42	32	M8x1	3.0	211.11 210
20		12	16	150	47	37	M10x1	5.0	211.11 212
25		3	10	150					211.11 303
25		4	10	150					211.11 304
25		5	15	150					211.11 305
25		6	20	150	36	26	M5	2.5	211.11 306
25		8	20	150	36	26	M6	3.0	211.11 308
25		10	20	150	42	32	M8x1	3.0	211.11 310
25		12	20	150	47	37	M10x1	5.0	211.11 312
25		14	20	150	47	37	M10x1	5.0	211.11 314
25		16	22	150	50	40	M10x1	5.0	211.11 316
32		6	20	150	36	26	M5	2.5	211.11 406
32		8	20	150	36	26	M6	3.0	211.11 408
32		10	24	150	42	32	M8x1	3.0	211.11 410
32		12	24	150	47	37	M10x1	5.0	211.11 412
32		14	27	150	47	37	M10x1	5.0	211.11 414
32		16	27	150	50	40	M10x1	5.0	211.11 416
32		18	27	150	50	40	M10x1	5.0	211.11 418
32		20	27	150	52	42	M10x1	5.0	211.11 420



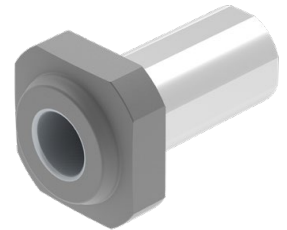
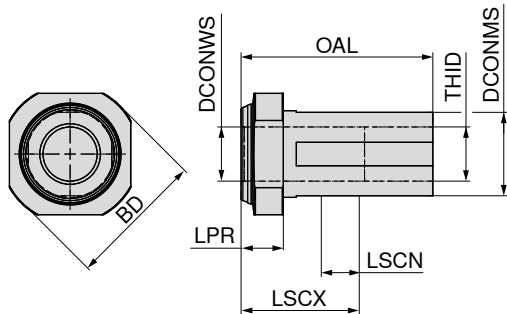
Observe the minimum clamping depth on → Page 300.

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



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		
32	20	41	19.5	78.5	51	41	M22x1		
40	16	46	19.5	88.5	51	41	M22x1		
40	20	46	19.5	88.5	51	41	M22x1		
40	25	46	19.5	88.5	57	47	M27x1		

83 402 ...

£
Y8

555.66 31699
555.66 32099

573.05 41699
573.05 42099
573.05 42599

Spare parts

DCONWS

16 - 20
25



Stop screw IK

83 950 ...

£
Y7

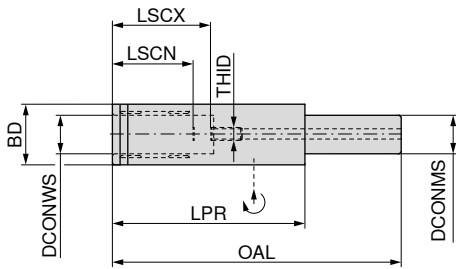
40.59 48500
64.05 48600

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 ...

£

Y8

737.80

112

737.80

120

737.80

132

762.75

232

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

1 Observe the minimum clamping depth on → Page 300.



Stop screw IK

83 950 ...

£

Y7

19.83

419

19.83

421

19.83

421

19.83

421

Spare parts for Article no.

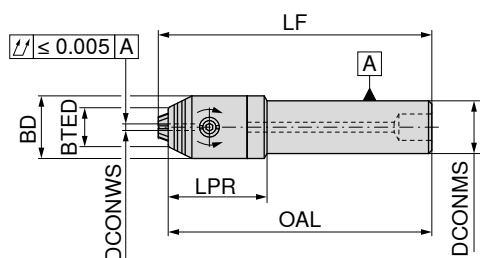
84 313 112	M6x12,5 - SW3	19.83	419
84 313 120	M10x1x13,5 - SW5	19.83	421
84 313 132	M10x1x13,5 - SW5	19.83	421
84 313 232	M10x1x13,5 - SW5	19.83	421

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

£
Y7

908.05 161

955.97 162

1,046.79 163

908.05 201

955.97 202

1,046.79 203

Spare parts for Article no.

	80 950 ...			80 021 ...	
	£ Y7			£ Y7	
84 315 161	9.42	152	1,8 Nm	122.33	018
84 315 162	9.42	152	1,8 Nm	122.33	018
84 315 163	9.42	152	1,8 Nm	122.33	018
84 315 201	9.42	152	1,8 Nm	122.33	018
84 315 202	9.42	152	1,8 Nm	122.33	018
84 315 203	9.42	152	1,8 Nm	122.33	018

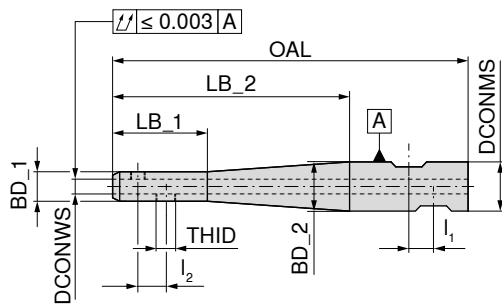


Micro-extension

- ▲ 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	Y7	
6	12	40	40	85	12	12	10	10	M6 x 0,5	7	220.84	00600
6	12	40	100	150	20	20	10	10	M6 x 0,5	7	269.41	10600
8	15	40	40	88	16	15	10	10	M8 x 0,75	8	218.63	00800
8	15	40	100	150	20	20	10	10	M8 x 0,75	8	262.78	10800
10	18	40	40	90	20	18	10	10	M10 x 1	12	218.63	01000
10	18	40	100	150	20	20	10	10	M10 x 1	12	262.78	11000
12	21	40	40	90	20	21	10	10	M12 x 1	15	218.63	01200
12	21	40	100	150	20	21	10	10	M12 x 1	15	262.78	11200
14	23	40	40	90	20	23	10	10	M12 x 1	15	223.04	01400
14	23	40	100	150	20	23	10	10	M12 x 1	15	269.41	11400
16	26	40	50	106	25	26	10	12	M14 x 1	18	227.45	01600 ¹⁾
16	26	40	100	156	25	26	10	12	M14 x 1	18	284.89	11600 ¹⁾
18	28	40	50	106	25	28	10	12	M14 x 1	18	238.49	01800 ¹⁾
18	28	40	100	156	25	28	10	12	M14 x 1	18	291.49	11800 ¹⁾
20	31	40	50	110	32	31	10	14	M16 x 1	20	236.30	02000 ¹⁾
20	31	40	100	160	32	31	10	14	M16 x 1	20	287.09	12000 ¹⁾

1) only pre-balanced design



Clamping screw

80 950 ...

Spare parts

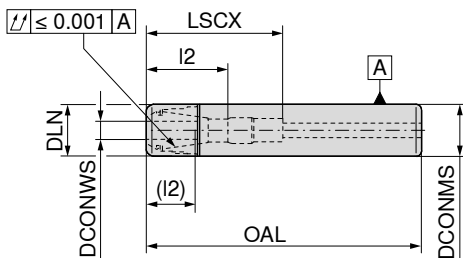
DCONWS	£	
	Y7	
6	M6X0,5X3	15.56 21700
8	M8x0,75x4	15.56 21800
10	M10x1x5	15.56 21900
12 - 14	M12x1x5	16.01 30000
16 - 18	M14x1x6,5	16.44 31000
20	M16x1x6,5	16.91 32000

ER-Mini precision collet chuck – Centro-P

- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping

Scope of supply:

Holder without nut, without backstop



							84 456 ...	
DCONMS	DCONWS	DLN	OAL	LSCX	l ₂ (l ₂)	for collet	£	
mm	mm	mm	mm	mm	mm		Y8	
10	1 - 5	10	80	16		4004E (ER08)	216.23	00400
10	1 - 5	10	150	16		4004E (ER08)	341.36	005
10	1 - 5	10	200	16		4004E (ER08)	328.07	006
12	1 - 5	10	120	16		4004E (ER08)	232.12	11000
12	1 - 5	10	160	16		4004E (ER08)	241.68	11200
12	1 - 5	10	200	16		4004E (ER08)	295.72	11400
16	1 - 7	16	150	68	18 - 36 (12 - 26)	4008E (ER11)	251.25	007
16	1 - 7	16	200	68	18 - 36 (12 - 26)	4008E (ER11)	260.18	008
16	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	251.25	010
16	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	240.08	12000
20	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	222.50	102
20	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	260.18	104



LSCX = Clamping depth without back stop screw for shanks
 l₂ = with back stop screw 1, dimension in brackets () = with back stop screw 2
 dimension OAL 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	£ Y8	£ Y8	£ Y8	£ Y8
4004E (ER08)		95.25 040		
4008E (ER11)		79.26 041	M8x1 - SW4 45.18 340	M8x1 - SW4 30.09 336
426E (ER16)	77.19 035	63.32 034	M11x1 - SW6 47.40 341	M11x1 - SW6 31.75 337

Accessories

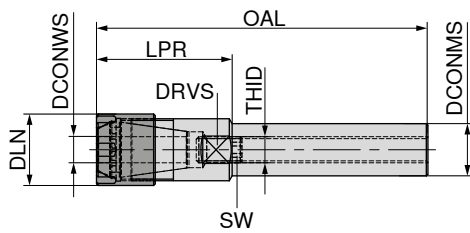
ER collet	Device	Roll key	Roll key device
→ 256-263, 266	→ 274	→ 275	→ 275



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

ER collet chuck with mini clamping nut

▲ with cylindrical shank



DCONMS mm	h6 mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	SW mm	for collet
8		1 - 5	81	26	12		9		4004E (ER08)
12		1 - 5	157	20	12	M5x0,8	10	2.5	4004E (ER08)
16		1 - 7	185	25	16	M7,5x0,5	14	3.0	4008E (ER11)
16		1 - 10	117	37	22	M11x1	17	5.0	426E (ER16)
16		1 - 10	199	39	22	M8x1,25	17	4.0	426E (ER16)
20		1 - 10	168	28	22	M11x1	17	5.0	426E (ER16)
25		1 - 13	168	28	28	M14x1	22	5.0	428E (ER20)
25		1 - 16	189	39	35	M18x1	27	5.0	430E (ER25)

83 453 ...

£

Y8

129.74 081 ¹⁾

274.42 122

269.61 163

274.42 164

269.61 165

193.37 204

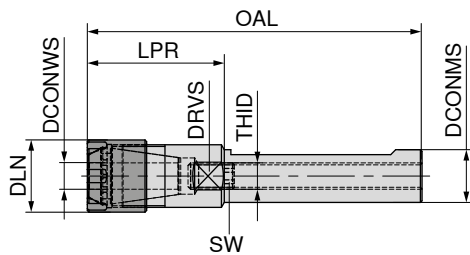
223.71 254

281.82 256

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat



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

83 454 ...

£

Y8

193.37 204

139.03 206

162.11 208

223.71 254

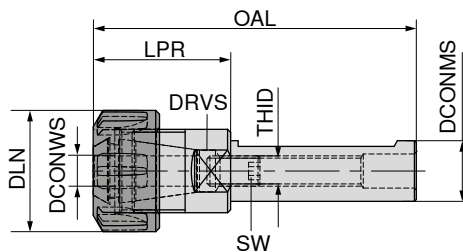
281.82 256

Spare parts for ER collet chuck with mini lock nut

									
	83 950 ...			62 950 ...			83 950 ...		
Spare parts for collet	£			£			£		
	Y8			W7			Y8		
4004E (ER08)	35.02	099	M10x0,75	58.70	067	M5x0,8 SW 2,5	2.63	003	
4008E (ER11)	35.02	100	M13x0,75	52.73	065	M7,5x0,5 SW 3	3.07	004	
426E (ER16)	37.35	101	M19x1	35.07	066	M11x1 SW 5	3.49	006	
426E (ER16)	37.35	101	M19x1	35.07	066	M8x1,25 SW 4	3.36	005	
428E (ER20)	36.77	102	M24x1	58.40	068	M14x1 SW 5	3.66	007	
430E (ER25)	36.77	103	M30x1	58.40	069	M18x1 SW 5	3.93	008	

ER Collet Chuck

▲ with cylindrical shank and clamping flat



									83 455 ...
DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	SW	for collet	£
mm	mm	mm	mm	mm	mm	mm	mm		Y8
40	2 - 20	100	35	50	M22x1,5	36	5	470E (ER32)	164.72
40	2 - 20	160	35	50	M22x1,5	36	5	470E (ER32)	203.39
40	3 - 30	139	59	63	M28x1,5	40	6	472E (ER40)	188.84
									401
									402
									405

												
	62 950 ...			83 357 ...			83 950 ...			83 950 ...		
Spare parts for collet	£			£			£			£		
	W7			Y8			Y8			Y8		
470E (ER32)	22.64	056	M40x1,5	33.95	132					M22x1,5x20 SW 5	5.08	095
472E (ER40)	23.45	057	M50x1,5	38.47	140	M28x1,5x25 SW 6	6.26	096				

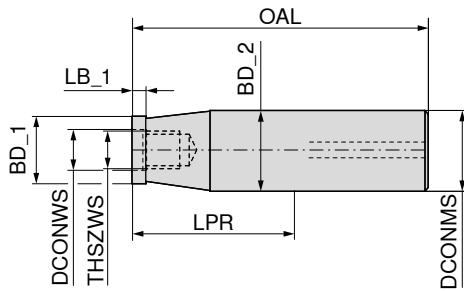
Accessories



ER collet

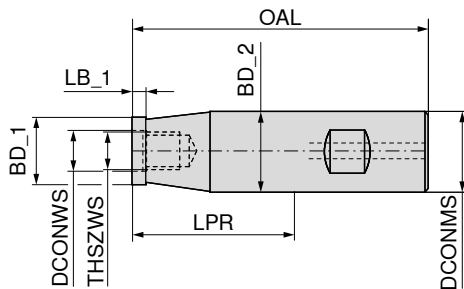
→ 256-266

Cylindrical milling bar for cutters with threaded end



								56 727 ...	
DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	£ WA	
12	M5	5.5	20	9.5	7.8	11.5	65	118.04	052
12	M6	6.5	20	11.5	7.8	11.5	65	109.41	060
12	M6	6.5	40	11.5	7.8	11.5	85	118.03	062
16	M8	8.5	20	13.8	7.8	15.8	68	122.13	081
16	M8	8.5	40	13.8	7.8	15.8	88	131.30	082
20	M10	10.5	25	18.0	7.8	19.8	75	127.23	101
20	M10	10.5	45	18.0	7.8	19.8	95	137.55	102
25	M12	12.5	50	21.0	7.8	24.8	106	143.65	122
32	M16	17.0	50	29.0	12.0	31.8	110	154.96	162

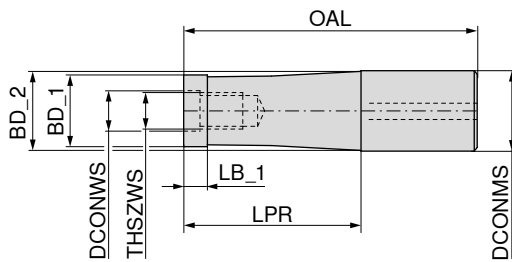
Milling bar for cutters with threaded end (Weldon)



								56 729 ...	
DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	£ WA	
12	M6	6.5	20	11.5	7.8	11.5	65	109.41	060
12	M6	6.5	40	11.5	7.8	11.5	85	118.03	062
16	M8	8.5	20	13.8	12.0	15.8	68	122.13	081
16	M8	8.5	40	13.8	8.0	15.8	88	131.30	082
20	M10	10.5	25	18.0	8.0	19.8	75	127.23	101
20	M10	10.5	45	18.0	12.0	19.8	95	137.55	102
25	M12	12.5	30	21.0	12.0	24.9	86	132.47	121
25	M12	12.5	50	21.0	8.0	24.9	106	143.65	122
32	M16	17.0	50	29.0	12.0	31.8	110	154.96	162

Screw-in adapter with cylindrical shank

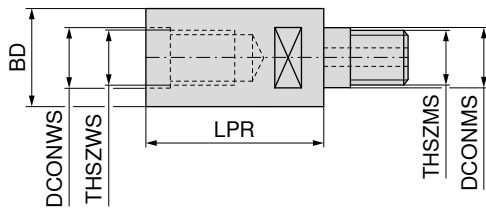
▲ Vibration-damped



								Solid carbide		Densimet		Densimet	
								56 743 ...		56 744 ...		56 721 ...	
DCONMS _{h6}	THSZWS	DCONWS	LPR	BD_1	LB_1	BD_2	OAL	£		£		£	
mm		mm	mm	mm	mm	mm	mm	WC		WC		WC	
12	M5	5.5	40	9.5	9	11.3	85			437.24	052	428.89	052
12	M5	5.5	60	9.5	9	11.3	105			472.58	053	457.23	053
12	M5	5.5	80	9.5	9	11.3	125			525.59	054	492.44	054
12	M6	6.5	20	11.5		11.5	65	575.83	060				
12	M6	6.5	40	11.5		11.5	85	614.94	062				
12	M6	6.5	60	11.5		11.5	105	681.75	063				
12	M6	6.5	80	11.5		11.5	125	746.24	064				
12	M6	6.5	100	11.5		11.5	145	810.73	065				
16	M8	8.5	40	14.2	9	15.3	88	652.32	082	536.61	082	536.90	082
16	M8	8.5	60	14.2	9	15.3	108	720.95	083	580.80	083	591.85	083
16	M8	8.5	80	14.2	9	15.3	128	777.06	084	636.01	084	625.98	084
16	M8	8.5	100	14.2	9	15.3	148	764.67	085	700.05	085	683.43	085
16	M8	8.5	120	14.2	9	15.3	168	817.61	086	770.71	086	740.51	086
16	M8	8.5	150	14.2	9	15.3	198			971.66	087	929.94	087
20	M10	10.5	60	18.5	9	19.3	110	829.29	103	677.95	103	679.86	103
20	M10	10.5	80	18.5	9	19.3	130	845.28	104	755.27	104	742.91	104
20	M10	10.5	100	18.5	9	19.3	150	1,014.27	105	843.59	105	817.15	105
20	M10	10.5	120	18.5	9	19.3	170	1,045.62	106	936.33	106	911.49	106
20	M10	10.5	140	18.5	9	19.3	190	1,165.42	107	1,090.92	107	1,068.10	107
25	M12	12.5	75	23.0	9	24.3	131			1,018.04	124	1,004.65	124
25	M12	12.5	80	23.0	9	24.3	136	902.85	124				
25	M12	12.5	100	23.0	9	24.3	156	1,161.01	125	1,126.25	125	1,157.03	125
25	M12	12.5	120	23.0	9	24.3	176	1,305.92	126				
25	M12	12.5	125	23.0	9	24.3	181			1,232.25	126	1,236.34	126
25	M12	12.5	140	23.0	9	24.3	196	1,508.59	127				
25	M12	12.5	150	23.0	9	24.3	206			1,384.64	127	1,375.79	127
25	M12	12.5	160	23.0	9	24.3	216	1,711.27	128				
25	M12	12.5	175	23.0	9	24.3	231			1,567.92	128	1,559.49	128
32	M16	17.0	100	29.0	9	31.5	160	1,923.16	165 ¹⁾				
32	M16	17.0	150	29.0	9	31.5	210	2,333.13	166 ¹⁾				
32	M16	17.0	200	29.0	9	31.5	260	2,812.19	167 ¹⁾				
32	M16	17.0	250	29.0	9	31.5	310	3,378.80	168 ¹⁾				
32	M16	17.0	300	29.0	9	31.5	360	3,862.47	169 ¹⁾				
36	M16	17.0	100	31.5	9	34.3	160					2,232.98	165 ¹⁾
36	M16	17.0	150	31.5	9	34.3	210					2,738.28	166 ¹⁾
36	M16	17.0	200	31.5	9	34.3	260					3,492.41	167 ¹⁾

1) On request

Extensions for milling cutters with threaded end



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		

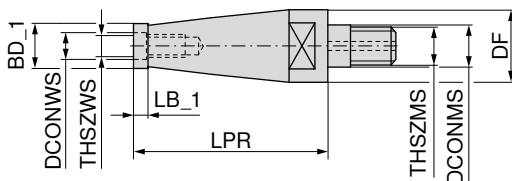
56 733 ...

£

WA

132.47 081
163.17 082137.55 101
168.26 102142.64 121
173.34 122147.74 161
178.61 162

Reductions for milling cutters with threaded end



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		

56 735 ...

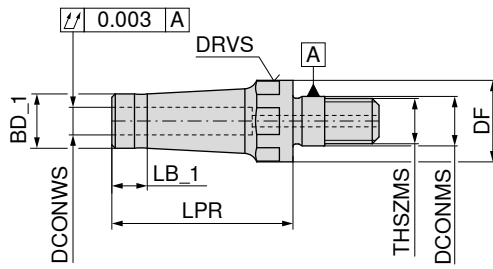
£

WA

117.10 060
137.55 081
148.72 082142.64 101
173.34 102

142.64 121

Threaded shrink adapter

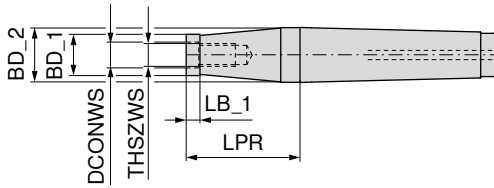


									56 708 ...	
THSZMS	DCONWS	BD_1	LPR	LB_1	DF	DCONMS	TQX	DRVS	£	
	mm	mm	mm	mm	mm	mm	Nm	mm	WA	
M10	6	12	40	7.8	18	10.5	30	17	157.70	061
M12	6	12	40	7.8	21	12.5	50	19	157.70	062
M16	6	12	40	7.8	29	17.0	100	27	157.70	063
M10	8	16	40	7.8	18	10.5	30	17	157.70	081
M12	8	16	40	7.8	21	12.5	50	19	157.70	082
M16	8	16	40	7.8	29	17.0	100	27	157.70	083
M10	10	18	60		18	10.5	30	17	157.70	101
M12	10	20	60	7.8	21	12.5	50	19	157.70	102
M16	10	20	60	7.8	29	17.0	100	27	157.70	103
M12	12	21	60		21	12.5	50	19	157.70	122
M16	12	24	60	7.8	29	17.0	100	27	157.70	123



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	WA	
MK2	M8	8.5	13.8	8.5	18.0	20	82.10	081
MK2	M8	8.5	13.8	8.5	18.0	40	87.36	082
MK2	M8	8.5	13.8	8.5	18.0	60	91.44	083
MK3	M8	8.5	13.8	8.5	24.1	80	96.52	084
MK3	M8	8.5	13.8	8.5	24.1	100	102.62	085
MK2	M10	10.5	18.0		18.0	20	82.10	101
MK2	M10	10.5	18.0		18.0	40	87.36	102
MK2	M10	10.5	18.0		18.0	60	91.44	103
MK3	M10	10.5	18.0	8.5	24.1	80	96.52	104
MK3	M10	10.5	18.0	8.5	24.1	100	102.62	105
MK3	M12	12.5	21.0	8.5	24.0	10	80.13	121
MK3	M12	12.5	21.0	8.5	24.1	30	82.10	122
MK3	M12	12.5	21.0	8.5	24.1	45	86.19	123
MK3	M12	12.5	21.0	8.5	24.1	60	90.31	124
MK3	M12	12.5	21.0	8.5	24.1	75	96.52	125
MK3	M12	12.5	21.0	8.5	24.1	85	105.71	126
MK3	M12	12.5	21.0	8.5	24.1	95	111.78	127
MK4	M12	12.5	21.0	8.5	31.6	120	160.21	129
MK4	M16	17.0	29.0	12.0	31.6	10	87.36	161
MK4	M16	17.0	29.0	12.0	31.6	35	89.28	162
MK4	M16	17.0	29.0	12.0	31.6	50	97.51	163
MK4	M16	17.0	29.0	9.0	31.6	65	104.59	164
MK4	M16	17.0	29.0	12.0	31.6	80	113.78	165
MK4	M16	17.0	29.0	12.0	31.6	95	126.25	166
MK5	M16	17.0	29.0	9.0	44.7	150	179.58	168
MK5	M16	17.0	29.0	9.0	44.7	180	190.90	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

∠ 90°, 120°, 142° / 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

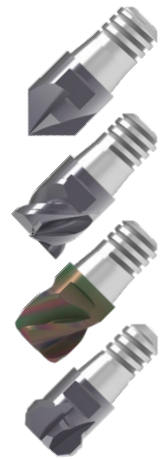
▲ Solid carbide quarter round cutter

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

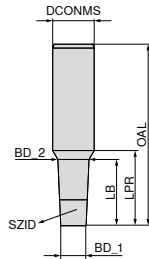
MultiChange – Holders

▲ 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	£ Y8	080	£ Y8	080	£ Y8	080	£ Y8	080	£ Y8	080
06	7.8	9.4	10	60	18	19	155.19									
06	7.8	9.4	10	85	43	44			183.75		311.14					
06	7.8	9.4	10	110	68	69						344.32				
06	7.8	9.4	10	150	108	109								396.77		080
08	9.8	12.0	16	70	25	29	157.72									
08	9.8	13.0	16	90	38	41			188.38		339.33					
08	9.8	14.9	16	110	60	61						381.03				100
08	9.8	15.4	16	150	100	101								443.48		100
10	11.8	14.2	16	70	27	29	174.85									
10	11.8	15.2	16	90	40	41			192.31		339.33					
10	11.8	16.6	20	110	56	59						486.65				120
10	11.8	19.5	20	150	98	99								524.12		120
12	15.8	18.2	20	80	27	29	187.68									
12	15.8	19.5	20	105	53	54			231.56		477.06					
12	15.8	19.5	20	130	78	79						569.81				160
12	15.8	19.5	20	150	98	99								584.59		160
16	19.8	23.2	25	90	39	41	220.16									
16	19.8	24.5	25	120	60	61			270.81		584.77					
16	19.8	24.5	25	150	90	91						661.13				200
16	19.8	24.5	25	200	140	141								741.75		200

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

Accessories



insertion key

→ 282



Adjustable wrench

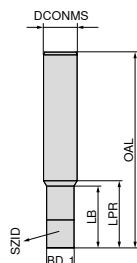
→ 282

MultiChange – Holders

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

Scope of supply:

Holder without mounting key



Steel



84 000 ...

£

Y8

140.94

080



Steel



84 002 ...

£

Y8

165.36

080



Steel



84 008 ...

£

Y8

231.56

080



Steel



84 011 ...

£

Y8

528.78

160

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



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

Accessories



insertion key

→ 282



Adjustable wrench

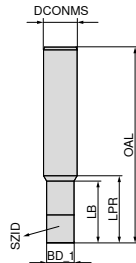
→ 282

MultiChange – Holders

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

Scope of supply:

Holder without mounting key



Solid carbide



84 003 ...

£
Y8

311.14

080



Solid carbide



84 006 ...

£
Y8

344.32

080



Solid carbide



84 009 ...

£
Y8

396.77

080



Solid carbide



84 012 ...

£
Y8

754.99

160

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



Adjustable wrench

→ 282

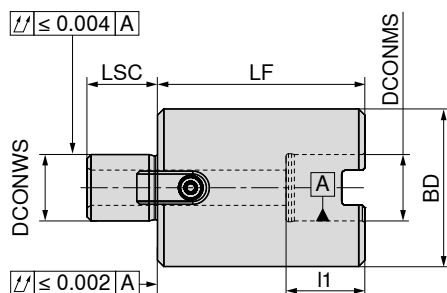
→ 282

Extension for Shell mill arbors

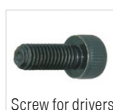
▲ Variable applications through usage of one or two extensions (max. 2 x 50 mm possible)

Scope of supply:

Holder without clamping screw



						82 648 ...	
DCONWS _{h5}	DCONMS _{h5}	LF	BD	LSC	I ₁	£ Y8	
mm	mm	mm	mm	mm	mm		
16	16	75	38	17	19	121.22	075
16	16	50	38	17	19	120.38	050
22	22	50	48	19	21	123.27	150
22	22	75	48	19	21	124.47	175
27	27	75	58	21	23	131.45	275
27	27	50	58	21	23	129.06	250
32	32	75	78	24	26	144.91	375
32	32	50	78	24	26	139.95	350
40	40	50	88	27	29	173.67	450
40	40	75	88	27	29	180.47	475



Screw for drivers



Driver



Retaining screw



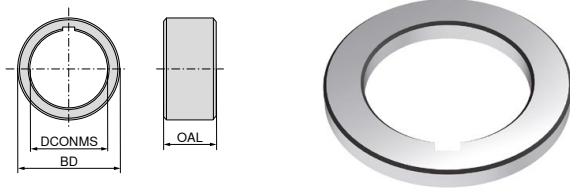
Retaining screw

		83 950 ...		83 950 ...		82 649 ...		82 649 ..				
Spare parts for Article no.		£ Y8		£ Y8		£ Y8		£ Y8				
82 648 075	M3x8	1.02	296	8x9x17,5	14.34	120		M8x100	5.82	075		
82 648 050	M3x8	1.02	296	8x9x17,5	14.34	120	M8x125	6.81	001	M8x80	4.19	050
82 648 150	M4x12	1.33	297	10x11x20,5	14.81	121	M10x125	10.09	100	M10x80	6.66	150
82 648 175	M4x12	1.33	297	10x11x20,5	14.81	121				M10x100	8.79	175
82 648 275	M5x12	1.37	136	12x13x24,3	16.33	122				M12x100	13.14	275
82 648 250	M5x12	1.37	136	12x13x24,3	16.33	122	M12x125	15.44	200	M12x80	9.73	250
82 648 375	M5x20	1.45	137	14x21x21,2	16.50	123				M16x100	19.92	375
82 648 350	M5x20	1.45	137	14x21x21,2	16.50	123	M16x125	22.65	300	M16x80	14.30	350
82 648 450	M6x16	1.65	138	15,9x16,3x19,5	21.97	295						
82 648 475	M6x16	1.65	138	15,9x16,3x19,5	21.97	295						



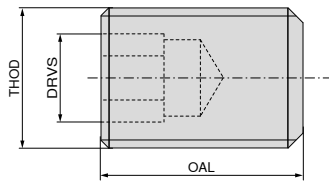
When using two extension pieces (max. 2 x 50 mm) please use a tightening bolt with a length of 125 mm.

Milling Adapter Rings DIN 2084 Form B



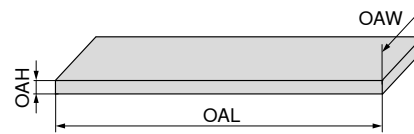
83 385 ...			
DCONMS mm	BD mm	OAL mm	£ Y8
13	22	2	12.01
	22	3	12.08
	22	4	12.57
	22	5	12.99
	22	6	13.65
	22	10	15.20
16	26	2	10.64
	26	3	10.64
	26	4	10.79
	26	5	11.20
	26	6	11.57
	26	10	16.43
	26	20	20.91
	26	30	26.05
22	34	2	10.96
	34	3	11.20
	34	4	11.35
	34	5	12.43
	34	6	14.02
	34	10	19.28
	34	20	24.16
	34	30	32.04
27	41	2	12.08
	41	3	12.38
	41	4	13.65
	41	5	14.15
	41	6	15.88
	41	10	19.70
	41	20	26.53
	41	30	35.49
32	47	2	13.48
	47	3	14.31
	47	4	15.56
	47	5	16.85
	47	6	17.84
	47	10	21.74
	47	20	32.85
	47	30	39.91
40	55	2	15.67
	55	3	17.40
	55	4	19.19
	55	5	20.91
	55	6	22.54
	55	10	30.22
	55	20	41.57
	55	30	51.33

Screw for cylindrical adaptors E2



Levelling plates

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



83 950 ...			
THOD	OAL mm	DRVS mm	£ Y8
M6	12	3	3.54 461
M6	16	3	3.44 462
M6	25	3	3.54 463
M8	10	4	3.54 464
M8	12	4	3.54 465
M8	16	4	3.54 466
M8	20	4	3.44 467
M8	25	4	3.44 468
M8	30	4	3.54 469
M10	16	5	3.54 470
M10	20	5	3.44 471
M10	25	5	4.21 472
M10	30	5	3.89 473
M12	12	6	4.21 474
M12	16	6	4.21 475
M12	20	6	4.21 476
M12	25	6	4.21 477

83 950 ...			
OAH mm	OAL mm	OAW mm	£ Y8
4	38	14	20.20 210
4	48	14	17.28 211
4	54	14	17.28 212
4	55	12	20.20 213
4	69	16	17.28 214
4	72	14	17.28 215
4	75	12	20.20 216
4	99	16	17.28 217
5	84	20	19.83 218
5	117	20	17.28 219
7	99	25	17.28 220
7	120	25	23.53 221
7	129	25	20.20 222
7	143	25	20.20 223

Clamping screw for cylindrical adaptors E1



83 950 ...		
THOD	£ Y8	
M10x1x10	7.13	180
M12x1x12	7.13	181
M16x1x13	6.36	182

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



for collet	THOD	DRVS mm	£ Y8	
ER 16	M24x1	19	86.95	45600
ER 20	M28x1,5	22	91.22	45700
ER 25	M32x1,5	24	89.30	45800
ER 32	M40x1,5	32	97.11	45900

83 950 ...

Ball-shaped spray nozzle



83 950 ...

£
Y8

Ø 8 - M 5	5.46	200
Ø 10 - M 6	6.89	201
Ø 14 - M 8	6.79	202

Pipe joints

▲ steel pipe



83 950 ...

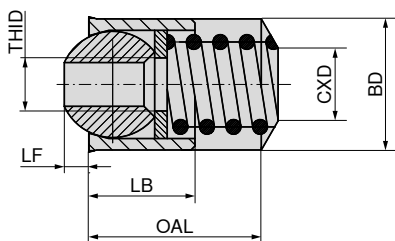
£
Y8

Adapter	Size	£ Y8	
VDI 16	15 x 1,5	1.65	205
VDI 20	18,77 x 1,78	1.65	206
VDI 30	28,3 x 1,78	1.91	207
VDI 40	37,77 x 2,62	2.21	208
VDI 50	47,29 x 2,62	2.21	209

83 950 ...

THOD	CXD mm	Type	£ Y7	
M8x1	5	A	14.81	372
M10x1	6	A	32.18	373
M10x1	8	A	18.87	374
M8x1	5	B	14.81	375
M10x1	6	B	32.18	376
M10x1	8	B	32.18	377

Spray nozzle element

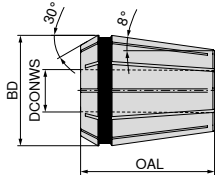


83 950 ...

BD mm	THID	OAL mm	LB mm	LF mm	CXD mm	£ Y8	
9.88	M4	13	8	2.2	5.5	14.35	247
11.88	M6	15	10	3.0	6.8	14.35	248
13.88	M6	17	12	4.0	6.8	14.35	249

ER precision collet for precision collet chucks – Centro-P

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coloured ring as identification of precision collet
- ▲ ER08: 5 µm runout and repeatability
- ▲ Coated precision collet

ER-B
2 µm

	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	Y8		Y8		Y8		Y8		Y8		Y8	
1.0	99.17	010	95.88	010	94.23	010						
1.1					168.54	011						
1.2					168.54	012						
1.4					168.54	014						
1.5	99.17	015	95.88	015	94.23	015						
1.6					168.54	016						
1.8					168.54	018						
2.0	88.07	020	84.27	020	80.49	020	83.32	020	85.22	020		
2.2					149.60	022						
2.4					149.60	024						
2.5	88.07	025	84.27	025	80.49	025	83.32	025				
2.6					149.60	026						
2.8					149.60	028						
3.0	74.80	030	71.03	030	68.17	030 ¹⁾	70.08	030	71.03	030	104.13	030
3.2					132.57	032						
3.4					117.37	034						
3.5	74.80	035	71.03	035	86.79	035	90.92	035				
3.6					132.57	036						
3.8					132.57	038						
4.0	74.80	040	71.03	040	68.17	040 ¹⁾	70.08	040	71.03	040 ¹⁾	90.90	040
4.5	74.80	045	71.03	045	86.79	045	90.92	045				
5.0	74.80	050	71.03	050	68.17	050 ¹⁾	70.08	050	71.03	050	90.90	050
5.5			71.03	055	86.79	055	90.92	055				
5.6					132.57	056						
6.0			71.03	060	68.17	060 ¹⁾	70.08	060 ¹⁾	71.03	060 ¹⁾	90.90	060
6.3					132.57	063						
6.5			71.03	065	86.79	065	90.92	065				
7.0			71.03	070	68.17	070 ¹⁾	70.08	070	71.03	070	90.90	070
7.1					132.57	071						
7.5					86.79	075	90.92	075				
8.0					68.17	080 ¹⁾	70.08	080 ¹⁾	71.03	080 ¹⁾	90.90	080
8.5					86.79	085	90.92	085				
9.0					68.17	090	70.08	090	71.03	090	90.90	090
9.5					86.79	095	90.92	095				
10.0					68.17	100 ¹⁾	70.08	100 ¹⁾	71.03	100 ¹⁾	90.90	100
10.5							90.92	105				
11.0							70.08	110	71.03	110	90.90	110
11.5							90.92	115				
12.0							70.08	120 ¹⁾	71.03	120 ¹⁾	90.90	120
12.5							90.92	125				
13.0							70.08	130	71.03	130	90.90	130
13.5							90.92	135				
14.0							70.08	140 ¹⁾	71.03	140 ¹⁾	90.90	140
14.5							90.92	145				
15.0							70.08	150	71.03	150	90.90	150
15.5							90.92	155				
16.0							70.08	160 ¹⁾	71.03	160 ¹⁾	90.90	160
17.0									71.03	170	90.90	170
18.0									71.03	180	90.90	180
19.0									71.03	190	90.90	190
20.0									71.03	200 ¹⁾	90.90	200
21.0											90.90	210
22.0											90.90	220
23.0											90.90	230
24.0											90.90	240
25.0											90.90	250
26.0											90.90	260
Set in wooden box					439.34	999	530.26	999	609.79	999		

1) Included in the set

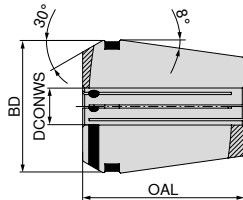


Clamping range covered: H10 corresponding to shank Ø DCONWS

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

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

ER-A
2 μ m

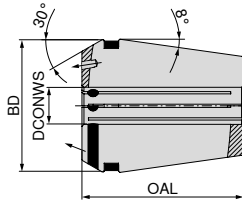


DCONWS mm	BD = 11.3 OAL = 18 425 E / ER11		BD = 16.7 OAL = 27.5 425 E / ER16		BD = 25.7 OAL = 34 429 E / ER25		BD = 32.7 OAL = 40 469 E / ER32		BD = 40.7 OAL = 46 471 E / ER40	
	£		£		£		£		£	
3	89.26	030	92.79	030	94.23	030	97.55	030		
4	89.26	040	92.79	040	98.48	040	89.26	040		
5	97.55	050	89.26	050	94.23	050	97.55	050		
6	89.26	060	92.79	060	98.48	060	89.26	060	102.49	060
7			89.26	070	94.23	070	97.55	070		
8			92.79	080	98.48	080	89.26	080	102.49	080
9			89.26	090	94.23	090	97.55	090		
10			92.79	100	98.48	100	89.26	100	102.49	100
11					94.23	110	97.55	110		
12					98.48	120	89.26	120	102.49	120
13					94.23	130	97.55	130		
14					98.48	140	89.26	140	102.49	140
15					94.23	150	97.55	150		
16					98.48	160	89.26	160	102.49	160
17							97.55	170		
18							89.26	180	102.49	180
19							97.55	190		
20							89.26	200	102.49	200
22									112.41	220
25									102.49	250

ER precision collet, sealed with coolant holes, for precision collet chucks – Centro-P

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

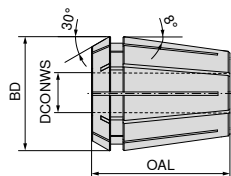
ER-A
2 µm



DCONWS mm	BD = 11.3 OAL = 18 4012 E/ ER11		BD = 16.7 OAL = 27.5 425 E/ ER16		BD = 25.7 OAL = 34 429 E/ ER25		BD = 32.7 OAL = 40 469 E/ ER32		BD = 40.7 OAL = 46 471 E/ ER40	
	£		£		£		£		£	
	Y8		Y8		Y8		Y8		Y8	
3	136.73	03000	122.33	03000						
4	136.73	04000	122.33	040	130.59	040	135.54	040		
6	136.73	06000	122.33	060	130.59	060	135.54	060	157.05	06000
8			122.33	080	130.59	080	135.54	080	157.05	08000
10			122.33	10000	130.59	100	135.54	100	157.05	100
12					130.59	120	135.54	120	157.05	120
14					130.59	140	135.54	140		
16					130.59	16000	135.54	160	157.05	160
18							135.54	180		
20							135.54	200	157.05	200
25									157.05	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		£ Y8		£ Y8		£ Y8		£ Y8		£ Y8		£ Y8	
1.0		41.09	010	39.69	010	40.91	010 ¹⁾	43.17	010 ¹⁾				
1.5		41.09	015	39.69	015 ¹⁾	40.91	015 ¹⁾	43.17	015 ¹⁾				
2.0		41.09	020	39.69	020	40.91	020	43.17	020	45.59	020 ¹⁾		
2.5		41.09	025	39.69	025 ¹⁾	40.91	025 ¹⁾	43.17	025	45.59	025 ¹⁾		
3.0		33.29	030	31.38	030	32.41	030	33.29	030	35.54	030	61.54	030 ¹⁾
3.5		33.29	035										
4.0		33.29	040	31.38	040	32.41	040	33.29	040	35.54	040	45.94	040
4.5		33.29	045										
5.0		33.29	050	31.38	050	32.41	050	33.29	050	35.54	050	45.94	050
5.5		33.29	055										
6.0		33.29	060	31.38	060	32.41	060	33.29	060	35.54	060	45.94	060
6.5		33.29	065										
7.0		33.29	070	31.38	070	32.41	070	33.29	070	35.54	070	45.94	070
8.0				31.38	080	32.41	080	33.29	080	35.54	080	45.94	080
9.0				31.38	090	32.41	090	33.18	090	35.54	090	45.94	090
10.0				31.38	100	32.41	100	33.29	100	35.54	100	45.94	100
11.0						32.41	110	33.29	110	35.54	110	45.94	110
12.0						32.41	120	33.29	120	35.54	120	45.94	120
13.0						32.41	130	33.29	130	35.54	130	45.94	130
14.0								33.29	140	35.54	140	45.94	140
15.0								33.29	150	35.54	150	45.94	150
16.0								33.29	160	35.54	160	45.94	160
17.0										35.54	170	45.94	170
18.0										35.54	180	45.94	180
19.0										35.54	190	45.94	190
20.0										35.54	200	45.94	200
21.0												45.94	210
22.0												45.94	220
23.0												45.94	230
24.0												45.94	240
25.0												45.94	250
26.0												45.94	260
Set in wooden box		495.72	999	358.79	999	436.78	999	552.92	999	691.55	999	1.117.96	999

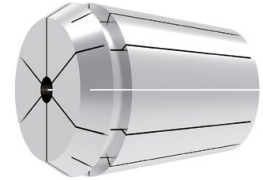
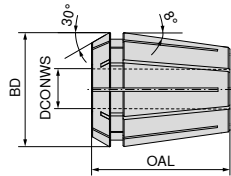
1) not included in the set



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 BD = 8.5 OAL = 13.6 4004 E / ER08		NEW BD = 17 OAL = 27.5 426 E / ER16		NEW BD = 26 OAL = 34 430 E / ER25		NEW BD = 33 OAL = 40 470 E / ER32	
	£		£		£		£	
1.0	36.74	01000	29.83	01000				
1.5	36.74	01500						
2.0	36.74	02000	29.83	02000	31.84	02000		
2.5	36.74	02500						
3.0	36.74	03000	29.83	03000	31.84	03000	33.89	03000
3.5	36.74	03500						
4.0	36.74	04000	29.83	04000	31.84	04000	33.89	04000
4.5	36.74	04500						
5.0	36.74	05000	29.83	05000	31.84	05000	33.89	05000
6.0			29.83	06000	31.84	06000	33.89	06000
7.0			29.83	07000	31.84	07000	33.89	07000
8.0			29.83	08000	31.84	08000	33.89	08000
9.0			29.83	09000	31.84	09000	33.89	09000
10.0			29.83	10000	31.84	10000	33.89	10000
11.0					31.84	11000	33.89	11000
12.0					31.84	12000	33.89	12000
13.0					31.84	13000	33.89	13000
14.0					31.84	14000	33.89	14000
15.0					31.84	15000	33.89	15000
16.0					31.84	16000	33.89	16000
17.0							33.89	17000
18.0							33.89	18000
19.0							33.89	19000
20.0							33.89	20000
Set in wooden box	413.70	99900	357.00	99900	514.50	99900	684.60	99900

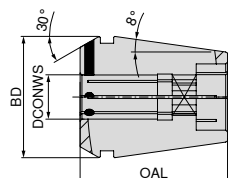


Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

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 μ m

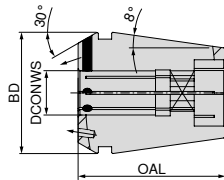


DCONWS
mm

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
2.8	86.73 028		
3.5	66.13 035	72.73 035	
4.0	66.13 040	72.73 040	89.51 040
4.5	66.13 045	72.73 045	89.51 045
6.0	66.13 060	72.73 060	89.51 060
7.0	66.13 070	72.73 070	89.51 070
8.0	66.13 080	72.73 080	89.51 080
9.0	66.13 090	72.73 090	89.51 090
10.0		72.73 100	89.51 100
11.0		72.73 110	89.51 110
12.0		72.73 120	89.51 120
14.0		72.73 140	89.51 140
16.0		72.73 160	89.51 160
18.0			89.51 180
20.0			89.51 200

ER precision collet, sealed with coolant channels

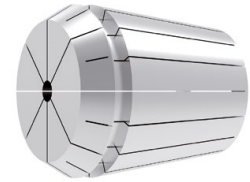
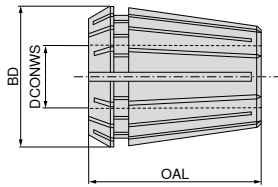
- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ Coated collet

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	
	£		£		£	
3.5	119.97	035	132.87	045	143.94	045
4.5	119.97	045	132.87	060	143.94	060
6.0	119.97	060	132.87	070	143.94	070
7.0	119.97	070	132.87	080	143.94	080
8.0	119.97	080	132.87	090	143.94	090
9.0	119.97	09000	132.87	100	143.94	100
10.0			132.87	110	143.94	110
11.0			132.87	120	143.94	120
12.0			132.87	140	143.94	140
14.0			132.87	16000	143.94	160
16.0					143.94	180
18.0					143.94	200
20.0						

ER precision collet

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

ER-B
20 µm

DCONWS mm	NEW		NEW		NEW		NEW		NEW	
	BD = 17 OAL = 27.5 426 E / ER16		BD = 21 OAL = 31.5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	82 673 ...		82 674 ...		82 675 ...		82 676 ...		82 677 ...	
	£		£		£		£		£	
	Y8		Y8		Y8		Y8		Y8	
1	26.75	01000	26.13	01000 ¹⁾						
2	26.75	02000	26.13	02000	26.95	02000				
3	21.95	03000	17.69	03000	18.61	03000	20.14	03000	25.44	03000
4	21.95	04000	17.69	04000	18.61	04000	20.14	04000	25.44	04000
5	21.95	05000	17.69	05000	18.61	05000	20.14	05000	25.44	05000
6	21.95	06000	17.69	06000	18.61	06000	20.14	06000	25.44	06000
7	21.95	07000	17.69	07000	18.61	07000	20.14	07000	25.44	07000
8	21.95	08000	17.69	08000	18.61	08000	20.14	08000	25.44	08000
9	21.95	09000	17.69	09000	18.61	09000	20.14	09000	25.44	09000
10	21.95	10000	17.69	10000	18.61	10000	20.14	10000	25.44	10000
11			17.69	11000	18.61	11000	20.14	11000	25.44	11000
12			17.69	12000	18.61	12000	20.14	12000	25.44	12000
13			17.69	13000	18.61	13000	20.14	13000	25.44	13000
14					18.61	14000	20.14	14000	25.44	14000
15					18.61	15000	20.14	15000	25.44	15000
16					18.61	16000	20.14	16000	25.44	16000
17							20.14	17000	25.44	17000
18							20.14	18000	25.44	18000
19							20.14	19000	25.44	19000
20							20.14	20000	25.44	20000
21									25.44	21000
22									25.44	22000
23									25.44	23000
24									25.44	24000
25									25.44	25000
26									25.44	26000
Set in wooden box		352.03 99900	352.03 99900	352.03 99900	352.03 99900	352.03 99900	376.71 99900	376.71 99900	592.50 99900	592.50 99900

1) not included in the set

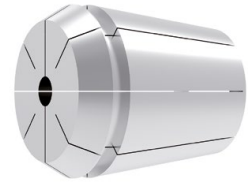
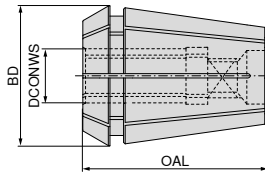


Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

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	
	£		£		£	
4.5	81.36	04500	89.34	04500		
5.5	81.36	05500	89.34	05500		
6.0	81.36	06000	89.34	06000		
7.0	81.36	07000	89.34	07000	105.05	07000
8.0	81.36	08000	89.34	08000	105.05	08000
9.0	81.36	09000	89.34	09000	105.05	09000
10.0	81.36	10000	89.34	10000	105.05	10000
11.0	81.36	11000	89.34	11000	105.05	11000
12.0	81.36	12000	89.34	12000	105.05	12000
14.0			89.34	14000	105.05	14000
16.0			89.34	16000	105.05	16000
18.0					105.05	18000
20.0					105.05	20000

Wooden boxes for collets

- ▲ For collets form A+B

Scope of supply:

empty wooden box

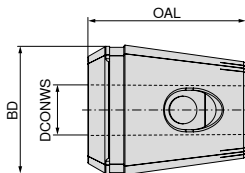


		83 689 ...	
for collet	Piece	£	
		Y8	
4004E (ER08)	9	28.92	008
4008E (ER11)	13	43.30	011
426E (ER16)	10	32.69	116
428E (ER20)	11	51.86	020
430E (ER25)	14	54.04	025
470E (ER32)	18	70.02	032
472E (ER40)	24	88.46	040

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

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

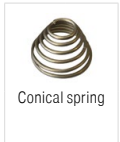
ER
5 µm



BD = 32.7
OAL = 40
ER 32

83 629 ...			
£			
Y8			
12	179.99	120	
16	179.99	160	

DCONWS
mm
12
16



Conical spring

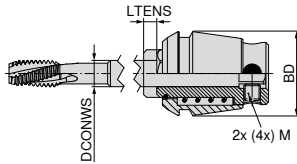
Spare parts
DCONWS
12
16

83 950 ...			
£			
Y8			
CP 32	10.79	455	
CP 32	10.79	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 ...	
	£ Y7		£ Y7		£ Y7		£ Y7		£ Y7	
2.2	227.88	022	227.88	022						
2.5	227.88	025	227.88	025	241.63	025				
2.8	227.88	028	227.88	028	241.63	028				
3.0	227.88	030	227.88	030	241.63	030				
3.5	227.88	035	227.88	035	241.63	035				
4.0	227.88	040	227.88	040	241.63	040				
4.5	227.88	045	227.88	045	241.63	045	257.18	045		
5.0							257.18	050		
5.5	227.88	055	227.88	055	241.63	055	257.18	055		
6.0	227.88	060	227.88	060	241.63	060	257.18	060	282.33	060
7.0			227.88	070	241.63	070	257.18	070	282.33	070
8.0					241.63	080	257.18	080	282.33	080
9.0					241.63	090	257.18	090	290.36	090
10.0					241.63	100	257.18	100	290.36	100
11.0							257.18	110	290.36	110
12.0							257.18	120	290.36	120
14.0									290.36	140
16.0									290.36	160

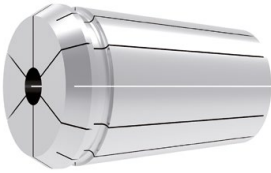
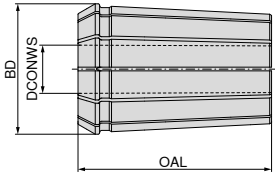


When using CNC machines apply canned cycles with a feed rate or pitch of only 95 % with small threads and up to 99 % with large threads. In this way when reversing the rotation of the spindle an optimum length compensation in both directions is guaranteed.

OZ precision collet for precision collet chucks – 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

£

Y8

90.93

90.93

90.93

90.93

90.93

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90.93

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90.93

90.93

030

040

060

080

100

120

140

160

180

200

250

250

250

250

250

250

250

250

250

250

250

250

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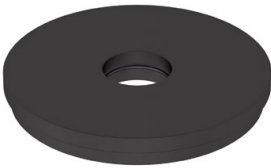
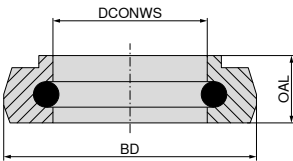


Clamping range covered: H10 corresponding to shank $\varnothing$ DCONWS

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

£

Y8

38.98

38.98

38.98

38.98

38.98

38.98

38.98

38.98

38.98

38.98

38.98

38.98

38.98

38.98

38.98

040

050

060

080

100

120

140

160

180

200

220

250

250

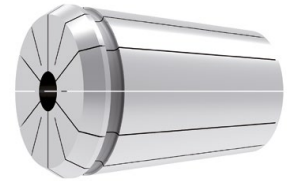
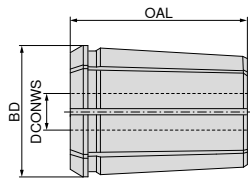
250

250

OZ-collets

▲ DIN ISO 10897-B (old DIN 6388-B)

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



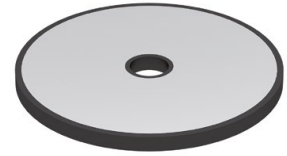
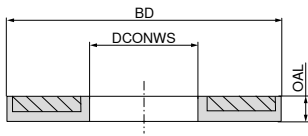
DCONWS mm	OZ-B 6 µm		OZ-B 6 µm		OZ-B 10 µm		NEW OZ-B 20 µm		NEW OZ-B 20 µm		NEW OZ-B 20 µm	
	BD = 25.5 OAL = 40 415 E / OZ		BD = 35.05 OAL = 52 462 E / OZ		BD = 43.7 OAL = 60 467 E / OZ		BD = 25.5 OAL = 40 415 E / OZ		BD = 35.05 OAL = 52 462 E / OZ		BD = 43.7 OAL = 60 467 E / OZ	
	83 651 ...		83 652 ...		83 653 ...		82 653 ...		82 654 ...		82 655 ...	
	£		£		£		£		£		£	
	Y8		Y8		Y8		Y8		Y8		Y8	
2.0							38.38	02000	43.68	02000		
2.5							38.38	02500	43.68	02500		
3.0	54.80	030					31.56	03000	37.42	03000		
3.5							31.56	03500	37.42	03500		
4.0	54.80	040	64.46	040			31.56	04000	37.42	04000	58.87	04000
4.5							31.56	04500	37.42	04500	58.87	04500
5.0	54.80	050	64.46	050			31.56	05000	37.42	05000	58.87	05000
5.5							31.56	05500	37.42	05500	58.87	05500
6.0	54.80	060	64.46	060			31.56	06000	37.42	06000	58.87	06000
6.5							31.56	06500	37.42	06500	58.87	06500
7.0							31.56	07000	37.42	07000	58.87	07000
7.5							31.56	07500	37.42	07500	58.87	07500
8.0	54.80	080	64.46	080			31.56	08000	37.42	08000	58.87	08000
8.5							31.56	08500	37.42	08500	58.87	08500
9.0							31.56	09000	37.42	09000	58.87	09000
9.5							31.56	09500	37.42	09500	58.87	09500
10.0	54.80	100	64.46	100	84.40	100	31.56	10000	37.42	10000	58.87	10000
10.5							31.56	10500	37.42	10500	58.87	10500
11.0							31.56	11000	37.42	11000	58.87	11000
11.5							31.56	11500	37.42	11500	58.87	11500
12.0	54.80	120	64.46	120	84.40	120	31.56	12000	37.42	12000	58.87	12000
12.5							31.56	12500	37.42	12500	58.87	12500
13.0							31.56	13000	37.42	13000	58.87	13000
13.5							31.56	13500	37.42	13500	58.87	13500
14.0			64.46	140	84.40	140	31.56	14000	37.42	14000	58.87	14000
14.5							31.56	14500	37.42	14500	58.87	14500
15.0							31.56	15000	37.42	15000	58.87	15000
15.5							31.56	15500	37.42	15500	58.87	15500
16.0	54.80	160	64.46	160	84.40	160	31.56	16000	37.42	16000	58.87	16000
16.5									37.42	16500	58.87	16500
17.0									37.42	17000	58.87	17000
17.5									37.42	17500	58.87	17500
18.0			64.46	180	84.40	180			37.42	18000	58.87	18000
18.5									37.42	18500	58.87	18500
19.0									37.42	19000	58.87	19000
19.5									37.42	19500	58.87	19500
20.0			64.46	200	84.40	200			37.42	20000	58.87	20000
20.5									37.42	20500	58.87	20500
21.0									37.42	21000	58.87	21000
21.5									37.42	21500	58.87	21500
22.0									37.42	22000	58.87	22000
22.5									37.42	22500	58.87	22500
23.0									37.42	23000	58.87	23000
23.5									37.42	23500	58.87	23500
24.0									37.42	24000	58.87	24000
24.5									37.42	24500	58.87	24500
25.0			64.46	250	84.40	250			37.42	25000	58.87	25000
25.5											58.87	25500
26.0											58.87	26000
26.5											58.87	26500
27.0											58.87	27000
27.5											58.87	27500
28.0											58.87	28000
28.5											58.87	28500
29.0											58.87	29000
29.5											58.87	29500
30.0					84.40	300					58.87	30000
30.5											58.87	30500
31.0											58.87	31000
31.5											58.87	31500
32.0					84.40	320					58.87	32000



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

Sealing discs for precision collet chucks – Centro-P

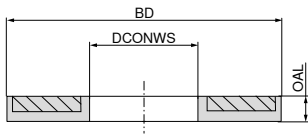
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



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)	
	£		£		£		£		£	
	Y8		Y8		Y8		Y8		Y8	
1.0	28.90	010								
1.5	28.90	015								
2.0	26.31	020	29.56	020	26.31	020	32.01	020		
2.5	26.31	025	29.56	025	26.31	025	32.01	025		
3.0	25.05	030	22.85	030	25.05	030	26.08	030	31.22	030
3.5	25.05	035	22.85	035	25.05	035	26.08	035	31.22	035
4.0	25.05	040	22.85	040	25.05	040	26.08	040	31.22	040
4.5	25.05	045	22.85	045	25.05	045	26.08	045	31.22	045
5.0	25.05	050	22.85	050	25.05	050	26.08	050	31.22	050
5.5	25.05	055	22.85	055	25.05	055	26.08	055	31.22	055
6.0	25.05	060	22.85	060	25.05	060	26.08	060	31.22	060
6.5	25.05	065	22.85	065	25.05	065	26.08	065	31.22	065
7.0	25.05	070	22.85	070	25.05	070	26.08	070	31.22	070
7.5	25.05	075	22.85	075	25.05	075	26.08	075	31.22	075
8.0	25.05	080	22.85	080	25.05	080	26.08	080	31.22	080
8.5	25.05	085	22.85	085	25.05	085	26.08	085	31.22	085
9.0	25.05	090	22.85	090	25.05	090	26.08	090	31.22	090
9.5	25.05	095	22.85	095	25.05	095	26.08	095	31.22	095
10.0	25.05	100	22.85	100	25.05	100	26.08	100	31.22	100
10.5			22.85	105	25.05	105	26.08	105	31.22	105
11.0			22.85	110	25.05	110	26.08	110	31.22	110
11.5			22.85	115	25.05	115	26.08	115	31.22	115
12.0			22.85	120	25.05	120	26.08	120	31.22	120
12.5			22.85	125	25.05	125	26.08	125	31.22	125
13.0			22.85	130	25.05	130	26.08	130	31.22	130
13.5					25.05	135	26.08	135	31.22	135
14.0					25.05	140	26.08	140	31.22	140
14.5					25.05	145	26.08	145	31.22	145
15.0					25.05	150	26.08	150	31.22	150
15.5					25.05	155	26.08	155	31.22	155
16.0					25.05	160	26.08	160	31.22	160
16.5							26.08	165	31.22	165
17.0							26.08	170	31.22	170
17.5							26.08	175	31.22	175
18.0							26.08	180	31.22	180
18.5							26.08	185	31.22	185
19.0							26.08	190	31.22	190
19.5							26.08	195	31.22	195
20.0							26.08	200	31.22	200
20.5									31.22	205
21.0									31.22	210
21.5									31.22	215
22.0									31.22	220
22.5									31.22	225
23.0									31.22	230
23.5									31.22	235
24.0									31.22	240
24.5									31.22	245
25.0									31.22	250
25.5									31.22	255
26.0									31.22	260

Sealing rings for precision collet chucks – PCC

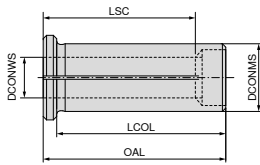
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 100 bar



DCONWS mm	NEW		NEW		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 ...	
	£		£		£	
	Y8		Y8		Y8	
3.0	33.80	03000	33.80	03000	33.80	03000
3.5	33.80	03500	33.80	03500	33.80	03500
4.0	33.80	04000	33.80	04000	33.80	04000
4.5	33.80	04500	33.80	04500	33.80	04500
5.0	33.80	05000	33.80	05000	33.80	05000
5.5	33.80	05500	33.80	05500	33.80	05500
6.0	33.80	06000	33.80	06000	33.80	06000
6.5	33.80	06500	33.80	06500	33.80	06500
7.0	33.80	07000	33.80	07000	33.80	07000
7.5	33.80	07500	33.80	07500	33.80	07500
8.0	33.80	08000	33.80	08000	33.80	08000
8.5	33.80	08500	33.80	08500	33.80	08500
9.0	33.80	09000	33.80	09000	33.80	09000
9.5	33.80	09500	33.80	09500	33.80	09500
10.0	33.80	10000	33.80	10000	33.80	10000
10.5			33.80	10500	33.80	10500
11.0			33.80	11000	33.80	11000
11.5			33.80	11500	33.80	11500
12.0			33.80	12000	33.80	12000
12.5			33.80	12500	33.80	12500
13.0			33.80	13000	33.80	13000
13.5			33.80	13500	33.80	13500
14.0			33.80	14000	33.80	14000
14.5			33.80	14500	33.80	14500
15.0			33.80	15000	33.80	15000
15.5			33.80	15500	33.80	15500
16.0			33.80	16000	33.80	16000
16.5					33.80	16500
17.0					33.80	17000
17.5					33.80	17500
18.0					33.80	18000
18.5					33.80	18500
19.0					33.80	19000
19.5					33.80	19500
20.0					33.80	20000

Reducing sleeves for hydraulic and high pressure chucks

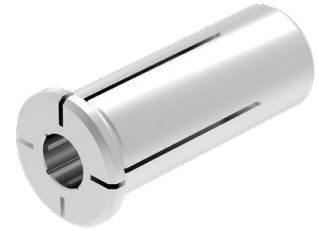
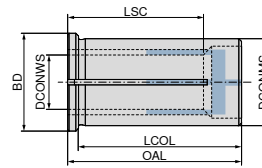
▲ Thro' coolant to 80 bar



83 609 ...					
DCONMS	DCONWS	OAL	LCOL	LSC	£
mm	mm	mm	mm	mm	Y8
12	3	40	36	29	225.73
12	4	40	36	29	225.73
12	5	40	36	29	225.73
12	6	40	36	36	225.73
12	8	40	36	37	225.73
20	3	54	50	28	212.03
20	4	54	50	28	212.03
20	5	54	50	28	212.03
20	6	54	50	36	164.72
20	8	54	50	37	164.72
20	10	54	50	40	164.72
20	12	54	50	45	164.72
20	14	54	50	45	164.72
20	16	54	50	48	164.72
25	6	60	56	37	172.92
25	8	60	56	37	172.92
25	10	60	56	40	172.92
25	12	60	56	46	172.92
25	14	60	56	47	172.92
25	16	60	56	48	172.92
25	18	60	56	48	172.92
25	20	60	56	50	172.92
32	6	64	60	36	212.03
32	8	64	60	36	212.03
32	10	64	60	40	212.03
32	12	64	60	45	212.03
32	14	64	60	46	212.03
32	16	64	60	48	212.03
32	18	64	60	49	212.03
32	20	64	60	50	212.03
32	25	64	60	56	212.03

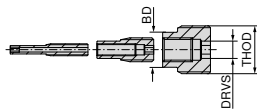
Reduction sleeves with coolant hole for hydraulic and high pressure chucks

▲ 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



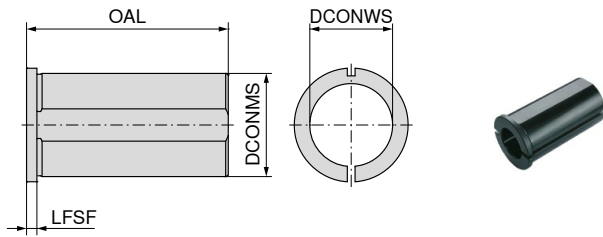
83 950 ...		
THOD	BD	DRVS
mm	mm	mm
M4x0.5x26	2.8	2
M8x1x19	5.8	2.5
M10x1x16	5.8	3
M16x1x16	11.7	5

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

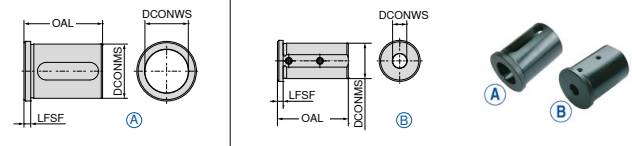
- ▲ For cylindrical and other tool holders
- ▲ For tools with cylindrical shank



83 271 ...				
DCONMS	DCONWS	OAL	LFSF	£
mm	mm	mm	mm	Y8
20	6	30	4	102.92
20	8	30	4	81.03
20	10	30	4	81.03
20	12	30	4	81.03
20	15	30	4	81.03
20	16	30	4	81.03
25	6	40	4	115.74
25	8	40	4	86.35
25	10	40	4	86.35
25	12	40	4	86.35
25	15	40	4	92.23
25	16	40	4	86.35
25	20	40	4	86.35
32	6	50	4	111.78
32	8	50	4	86.35
32	10	50	4	86.35
32	12	50	4	86.35
32	15	50	4	86.35
32	16	50	4	86.35
32	20	50	4	86.35
40	10	78	4	104.08
40	12	78	4	104.08
40	15	78	4	104.08
40	16	78	4	104.08
40	20	78	4	104.08
40	25	78	4	104.08
40	32	78	4	104.08
50	20	88	4	139.67
50	25	88	4	139.67
50	32	88	4	139.67
50	40	88	4	139.67

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank



83 272 ...					
DCONMS	DCONWS	OAL	LFSF	Fig.	£
mm	mm	mm	mm		Y8
25	6	50	4	B	138.36
25	8	50	4	B	105.50
25	10	50	4	B	105.50
25	12	50	4	B	105.50
25	14	50	4	A	97.17
25	16	50	4	A	105.50
25	20	50	4	A	105.50
32	6	58	5	B	142.77
32	8	58	5	B	142.77
32	10	58	5	B	108.49
32	12	58	5	B	108.49
32	16	58	5	A	108.49
32	20	58	5	A	108.49
32	25	58	5	A	108.49
40	8	58	5	B	173.45
40	10	58	5	B	142.77
40	12	58	5	B	142.77
40	16	58	5	A	142.77
40	20	58	5	A	142.77
40	25	58	5	A	142.77
40	32	58	5	A	142.77
50	12	75	5	B	161.07
50	16	75	5	A	161.07
50	20	75	5	A	161.07
50	25	75	5	A	161.07
50	32	75	5	A	161.07
50	40	75	5	A	161.07

Taper wiper

▲ Version made from hard wood with suede inserts



83 715 ...		
Adapter	£ Y8	
MK 1	11.75	001
MK 2	14.24	002
MK 3	18.31	003
MK 4	22.53	004
MK 5	32.11	005
HSK 100	123.64	100
HSK 32	77.65	320
HSK 40	84.36	400
HSK 50	85.61	500
HSK 63	81.28	630
HSK 80	129.20	800
SK 30	21.53	130
SK 40	25.48	140
SK 50	33.15	150

Assembly device for ISO adaptors

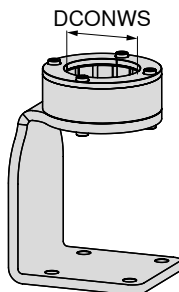
▲ Aluminium



80 720 ...		
Adapter	£ Y7	
SK 30	209.49	030
SK 40	209.49	040
SK 50	348.50	050

Assembly fixture for tool holders

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

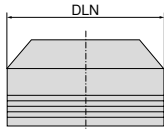


80 722 ...		
Holder Type	DCONWS mm	£ Y7
HSK 32, PSC 32	32.0	302.42
HSK 40, PSC 40	40.0	302.42
MAS-BT 30	46.0	265.56
ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50	50.0	265.56
ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63.0	265.56
ISO 7388-1 - SK 50	97.5	528.47
HSK 100, MAS-BT 50, ANSI-CAT 50	100.0	528.47



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

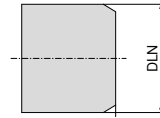
ER standard lock nut for precision collet chucks – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
426E (ER16)	1 - 10	30	80	56.75	001	76.42	011
430E (ER25)	2 - 16	40	90	63.06	003	85.18	013
470E (ER32)	2 - 20	50	180	69.36	005	91.08	015
472E (ER40)	3 - 26	63	200	100.91	007	124.56	017

Mini lock nut for precision collet chucks – Centro-P



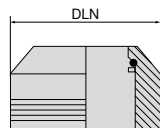
for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
4004E (ER08)	1 - 5	10	5 - 8	95.25	040		
4008E (ER11)	1 - 7	16	10	79.26	041		
4008E (ER11)	Ø 3,0	16	10	164.90	042 ¹⁾		
4008E (ER11)	Ø 4,0	16	10	164.90	043 ¹⁾		
4008E (ER11)	Ø 5,0	16	10	164.90	044 ¹⁾		
4008E (ER11)	Ø 6,0	16	10	164.90	045 ¹⁾		
4008E (ER11)	Ø 7,0	16	10	164.90	046 ¹⁾		
426E (ER16)	1 - 10	22	30	63.32	034		
426E (ER16)	1 - 10	22	28			77.19	035

1) directly sealed

OZ standard lock nut for precision collet chucks – Centro-P

▲ can be used without sealing ring



for seals

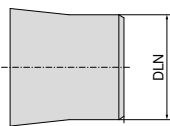
for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
462E (OZ)	2 - 25	50	200	71.45	009		
462E (OZ)	2 - 25	50	140			75.33	020

Collet removal aid for Mini lock nuts for precision collet chucks – Centro-P



for collet	84 950 ...	
	£ Y8	
4004E (ER08)	47.40	070
4008E (ER11)	66.68	072

Tapered lock nut for precision collet chucks – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
426E (ER16)	1 - 10	24	80	79.26	031	93.82	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	£ Y8	
4004E / ER08 CP mini	10	280.07	050
4008E / ER 11 CP mini / mini	16	129.11	080
426E / ER 16 CP / ER 16 mini	22	115.00	026
426E / ER 16 CP / CP mini	24	129.11	082
426E / ER 16 CP	30	115.00	027
426E / ER 16 STD	32	115.00	028
428E / ER 20 STD	35	115.00	029
430E / ER 25 CP	40	134.81	054
430E / ER 25 STD	42	126.81	055
470E / ER 32 CP + STD / OZ 462E CP	50	126.39	056
470E / ER 32 HDC	53	153.62	30200
472E / ER 40 CP + STD	63	143.96	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	£ Y8	
5 - 30	9 x 12	237.89	030
10 - 80	9 x 12	281.48	080
20 - 200	14 x 18	287.45	200

Additional roll key device for torque key

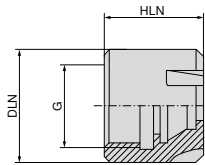
- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



84 950 ...					
for lock nut	DLN mm	TQX Nm	Square mm	£ Y8	
4008E / ER 11 CP	16	5 - 30	9 x 12	129.14	060
426E / ER 16 CP / ER 16 mini	22	5 - 30	9 x 12	115.00	170
426E / ER 16 CP	24	10 - 80	9 x 12	129.14	061
426E / ER 16 CP	30	20 - 200	14 x 18	115.00	171
426E / ER 16 STD	32	20 - 200	14 x 18	115.00	172
426E / ER 20 STD	35	20 - 200	14 x 18	115.00	173
430E / ER 25 CP	40	20 - 200	14 x 18	129.14	065
430E / ER 25 STD	42	20 - 200	14 x 18	129.14	066
470E / ER 32 CP + STD / OZ 462E CP	50	20 - 200	14 x 18	129.14	067
470E / ER 32 HDC	53	20 - 200	14 x 18	153.62	30300
472E / ER 40 CP + STD	63	20 - 200	14 x 18	129.14	068

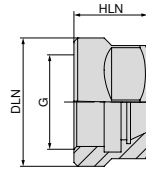
1) for mini and tapered lock nuts

Mini ER lock nut



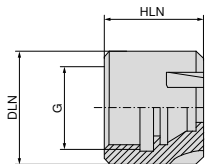
62 950 ...					
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ W7
4004E (ER08)	M10x0,75	12	11.0	8	58.70
4008E (ER11)	M13x0,75	16	12.0	18	52.73
426E (ER16)	M19x1	22	18.0	28	35.07
428E (ER20)	M24x1	28	19.5	35	58.40
430E (ER25)	M30x1	35	21.0	40	58.40
					067
					065
					066
					068
					069

ER Lock nut



62 950 ...					
for collet	THSZMS	DRVS mm	DLN mm	HLN mm	£ W7
426E (ER16)	M22x1,5	25	28	18.0	26.65
428E (ER20)	M25x1,5	30	34	19.5	21.49
					044
					045

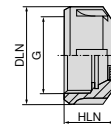
Mini ER lock nut for sealing rings



83 950 ...					
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ Y8
426E (ER16-DS)	M19x1	22	22.0	28	84.36
428E (ER20-DS)	M24x1	28	23.2	35	90.13
430E (ER25-DS)	M30x1	35	24.7	40	95.01
					058
					059
					060

for seals

ER Lock nut

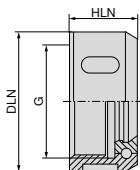


for seals

62 950 ...					
for collet	THSZMS	DLN mm	HLN mm	£ W7	
426E (ER16)	M22x1,5	32	17.0	21.20	054
426E (ER16)	M22x1,5	32	22.0		68.61 054
428E (ER20)	M25x1,5	35	23.2		77.94 053
430E (ER25)	M32x1,5	42	20.0	22.08	055
430E (ER25)	M32x1,5	42	24.7		79.92 055
470E (ER32)	M40x1,5	50	22.3	22.64	056
470E (ER32)	M40x1,5	50	27.0		85.48 056
472E (ER40)	M50x1,5	63	25.3	23.45	057
472E (ER40)	M50x1,5	63	30.7		102.87 057

OZ lock nut Form B + C

▲ with ball bearings



62 950 ...					
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ W7
415E / 421E (OZ)	M33x1,5	43	24.0	85	37.10
459E / 462E (OZ)	M48x2	60	30.0	140	38.72
460E / 467E (OZ)	M60x2,5	72	33.5	170	63.47
					050
					051
					052

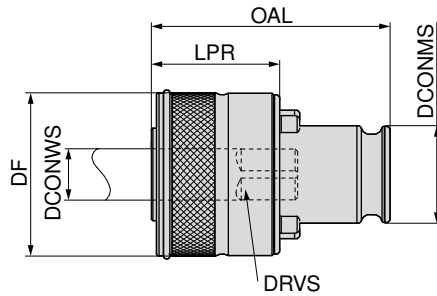
Y clamping key



83 357 ...		
for lock nut	£ Y8	
ER 16	23.31	116
ER 20	33.81	12000
ER 25	23.31	125
ER 32	33.95	132
ER 40	38.47	140

Quick change tap adapter with overload clutch

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

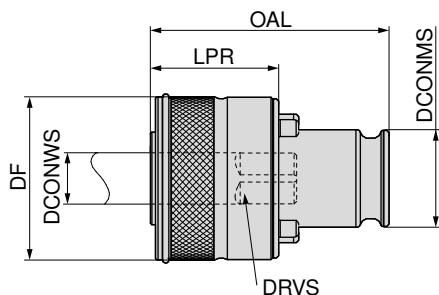


83 612 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	£ Y8	
01	2.8	2.1	M2		33	19	46.5	25	105.23	100
01	2.8	2.1	M2,5		33	19	46.5	25	105.23	101
01	3.5	2.7	M3		33	19	46.5	25	105.23	102
01	4.0	3.0	M3,5		33	19	46.5	25	105.23	103
01	4.5	3.4	M4		33	19	46.5	25	105.23	104
01	6.0	4.9	M4,5		33	19	46.5	25	105.23	105
01	6.0	4.9	M5		33	19	46.5	25	105.23	106
01	4.5	3.4		M6	33	19	46.5	25	105.23	107
01	6.0	4.9	M6		33	19	46.5	25	105.23	108
01	5.5	4.3		M7	33	19	46.5	25	105.23	109
01	7.0	5.5	M7		33	19	46.5	25	105.23	110
01	6.0	4.9		M8	33	19	46.5	25	105.23	111
01	8.0	6.2	M8		33	19	46.5	25	105.23	112
01	9.0	7.0	M9		33	19	46.5	25	105.23	113
01	7.0	5.5		M10	33	19	46.5	25	105.23	114
01	10.0	8.0	M10		33	19	46.5	25	105.23	115
01	8.0	6.2		M11	33	19	46.5	25	105.23	116
01	9.0	7.0		M12	33	19	46.5	25	105.23	117
02	6.0	4.9	M4,5 - M6		50	31	69.0	34	137.75	200
02	6.0	4.9	M7 (DIN 352)		50	31	69.0	34	137.75	201
02	7.0	5.5	M7		50	31	69.0	34	137.75	202
02	6.0	4.9		M8	50	31	69.0	34	137.75	203
02	8.0	6.2	M8		50	31	69.0	34	137.75	204
02	9.0	7.0	M9		50	31	69.0	34	137.75	205
02	7.0	5.5		M10	50	31	69.0	34	137.75	206
02	10.0	8.0	M10		50	31	69.0	34	137.75	207
02	8.0	6.2		M11	50	31	69.0	34	137.75	208
02	9.0	7.0		M12	50	31	69.0	34	137.75	209
02	11.0	9.0		M14	50	31	69.0	34	137.75	210
02	12.0	9.0		M16	50	31	69.0	34	137.75	211
02	14.0	11.0		M18	50	31	69.0	34	137.75	212
02	16.0	12.0		M20	50	31	69.0	34	137.75	213

Quick change tap adapter with overload clutch, with through coolant

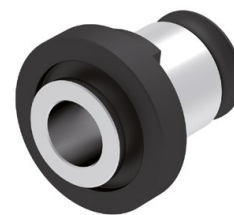
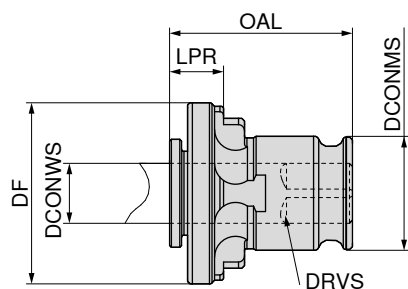
- ▲ Adapter with adjustable overload clutch
- ▲ for use with taps



									83 616 ...	
SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR	£	
	mm	mm			mm	mm	mm	mm	Y8	
01	3.5	2.7	M3	M4,5 - M5	33	19	46.5	25	175.27	100
01	4.5	3.4	M4	M6	33	19	46.5	25	175.27	102
01	5.5	4.3		M7	33	19	46.5	25	175.27	104
01	6.0	4.9	M4,5 - M6	M8	33	19	46.5	25	175.27	106
01	7.0	5.5	M7	M10	33	19	46.5	25	175.27	108
01	8.0	6.2	M8	M11	33	19	46.5	25	175.27	110
01	9.0	7.0	M9	M12	33	19	46.5	25	175.27	112
01	10.0	8.0	M10		33	19	46.5	25	175.27	114
01	11.0	9.0		M14	33	19	46.5	25	175.27	116
02	6.0	4.9	M4,5 - M6	M8	50	31	69.0	34	212.77	200
02	7.0	5.5	M7	M10	50	31	69.0	34	212.77	202
02	8.0	6.2	M8	M11	50	31	69.0	34	212.77	204
02	9.0	7.0	M9	M12	50	31	69.0	34	212.77	206
02	10.0	8.0	M10		50	31	69.0	34	212.77	208
02	11.0	9.0		M14	50	31	69.0	34	212.77	210
02	12.0	9.0	M12	M16	50	31	69.0	34	212.77	212
02	14.0	11.0		M18	50	31	69.0	34	212.77	214
02	16.0	12.0		M20	50	31	69.0	34	212.77	216

Quick change tap adapter

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

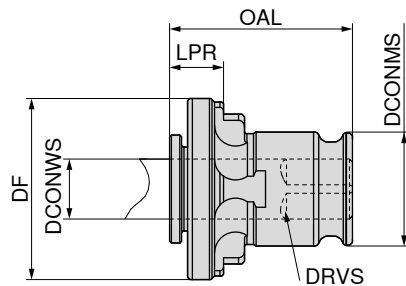


83 610 ...

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR	£	
	mm	mm			mm	mm	mm	mm	Y8	
01	3.5	2.7	M3		30	19	28.5	7	40.28	100
01	4.5	3.4	M4		30	19	28.5	7	40.28	101
01	4.0	3.0	M3,5		30	19	28.5	7	40.28	102
01	2.8	2.1	M2 - M2,6		30	19	28.5	7	40.28	103
01	5.5	4.3		M7	30	19	28.5	7	40.28	104
01	6.0	4.9	M4,5 - M6	M8	30	19	28.5	7	40.28	105
01	7.0	5.5	M7	M10	30	19	28.5	7	40.28	106
01	8.0	6.2	M8	M11	30	19	28.5	7	40.28	107
01	9.0	7.0	M9	M12	30	19	28.5	7	40.28	108
01	10.0	8.0	M10		30	19	28.5	7	40.28	109
01	11.0	9.0		M14	30	19	28.5	7	40.28	110
02	6.0	4.9	M4,5 - M6		46	31	46.0	11	55.39	200
02	7.0	5.5	M7		46	31	46.0	11	55.39	201
02	8.0	6.2	M8		46	31	46.0	11	55.39	202
02	9.0	7.0	M9		46	31	46.0	11	55.39	203
02	10.0	8.0	M10		46	31	46.0	11	55.39	204
02	11.0	9.0		M14	46	31	46.0	11	55.39	205
02	12.0	9.0		M16	46	31	46.0	11	55.39	206
02	14.0	11.0		M18	46	31	46.0	11	55.39	207
02	16.0	12.0		M20	46	31	46.0	11	55.39	208
02	18.0	14.5		M22 - M24	46	31	46.0	11	55.39	209

Quick change tap adapter, with through coolant

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

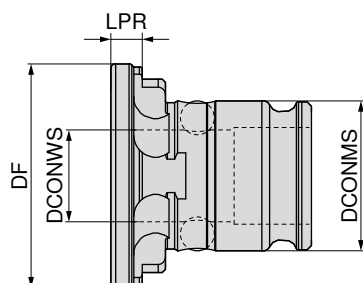


83 614 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	£ Y8	
01	3.5	2.7		M4,5 - M5	30	19	28.5	7	80.39	100
01	4.5	3.4	M4	M6	30	19	28.5	7	80.39	102
01	5.5	4.3		M7	30	19	28.5	7	80.39	104
01	6.0	4.9	M4,5 - M6	M8	30	19	28.5	7	80.39	106
01	7.0	5.5		M7	30	19	28.5	7	80.39	108
01	8.0	6.2	M8	M11	30	19	28.5	7	80.39	110
01	9.0	7.0	M9	M12	30	19	28.5	7	80.39	112
01	10.0	8.0	M10		30	19	28.5	7	80.39	114
02	6.0	4.9	M4,5 - M6	M8	46	31	46.0	11	105.23	200
02	7.0	5.5	M7	M10	46	31	46.0	11	105.23	202
02	8.0	6.2	M8	M11	46	31	46.0	11	105.23	204
02	9.0	7.0	M9	M12	46	31	46.0	11	105.23	206
02	10.0	8.0	M10		46	31	46.0	11	105.23	208
02	11.0	9.0		M14	46	31	46.0	11	105.23	210
02	12.0	9.0	M12	M16	46	31	46.0	11	105.23	212
02	14.0	11.0		M18	46	31	46.0	11	105.23	214
02	16.0	12.0		M20	46	31	46.0	11	105.23	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.

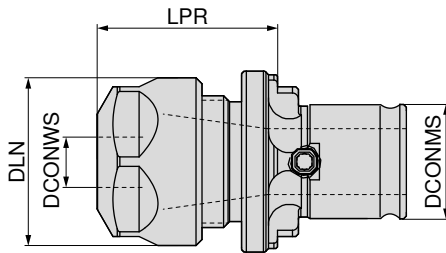


83 624 ...

SZID	DF mm	DCONMS mm	DCONWS mm	LPR mm	£ Y8	
02	46	31	19	8.5	124.01	200

Quick change tap adapters

▲ Adapters for collets ER 16 / ER 25

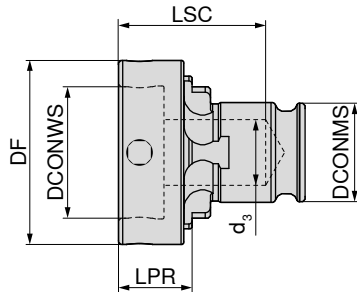


83 618 ...

SZID	DCONWS mm	DLN mm	DCONMS mm	LPR mm	for collet	£ Y8	
01	1 - 10	28	19	29.5	ER 16	170.23	010
02	2 - 16	42	31	38.5	ER 25	240.06	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	£ Y8	
01	16 x 5	M1 - M4	25	19	16	9	12.5	23	172.66	116
01	20 x 5	M3 - M4	30	19	20	9	12.5	23	231.13	120
01	20 x 7	M4,5 - M6	30	19	20	11	12.5	25	160.93	121
01	25 x 9	M7 - M9	35	19	25	14	12.5	28	231.13	125
01	30 x 11	M10 - M11	40	19	30	16	12.5	30	231.13	130
01	38 x 10	M12x1 - M15x1,5	48	19	38	15	14.2	29	231.13	138
01	38 x 14	M12 - M14	48	19	38	19	14.2	33	160.93	139
02	20 x 5	M3 - M4	30	31	20	22	15.0	57	242.67	220
02	20 x 7	M4,5 - M6	30	31	20	22	15.0	57	226.04	221
02	25 x 9	M7 - M9	35	31	35	22	15.0	57	226.04	225
02	30 x 11	M10 - M11	40	31	30	22	22.0	57	226.04	230
02	38 x 10	M12x1 - M15x1,5	48	31	38	22	22.0	57	242.67	238
02	38 x 14	M12 - M14	48	31	38	25	22.0	60	226.04	239
02	45 x 14	M16x1 - M20x2	57	31	45	29	22.0	64	242.67	245
02	45 x 14	M16 - M20	57	31	45	29	22.0	64	226.04	246

MultiChange – Spanner



DRVS mm	TQX Nm	£ Y8	84 357 ...
6	5	11.42	006
8	12,5	11.76	008
10	15	13.22	010
13	20	14.30	013
16	25	19.26	016
19	25	28.46	019 ¹⁾
21	25	31.14	021 ¹⁾
24	25	32.81	024 ¹⁾

1) only for MultiChange reamers

MultiChange – Spanner Head



DRVS mm	TQX Nm	Square mm	£ Y8	84 358 ...
6	5	9 x 12	82.44	006
8	12,5	9 x 12	82.44	008
10	15	9 x 12	82.44	010
13	20	9 x 12	82.44	013
16	25	9 x 12	82.44	016
19	25	9 x 12	132.24	190
19	25	14 x 18	166.22	019 ¹⁾
21	25	9 x 12	184.89	210
21	25	14 x 18	202.55	021 ¹⁾
24	25	9 x 12	184.89	240
24	25	14 x 18	202.55	024 ¹⁾

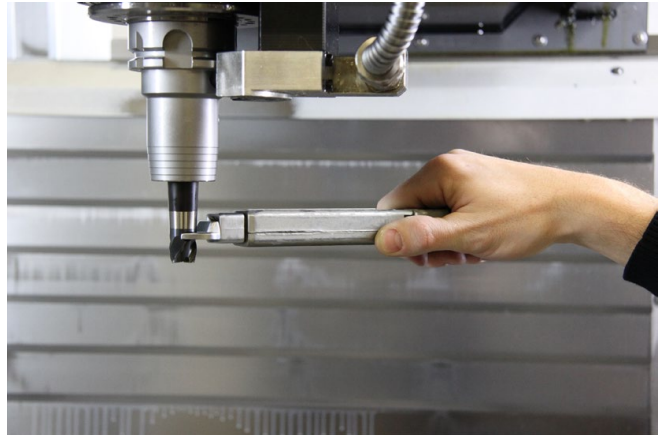
1) only for MultiChange reamers



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



Size	LB mm	TQX Nm	80 950 ...	
			£ Y7	
T05	35	0,5	6.36	082
T06	35	0,9	6.45	083
T07	35	1,7	6.45	084
T08	40	2,6	6.45	085
T09	40	3,4	6.98	086
T10	40	4,5	6.98	087
T15	45	7,7	7.34	088
T20	45	12,7	8.03	089

TORX® Screwdriver sets



Size	80 950 ...	
	£ Y7	
T06, T07, T08, T09, T10, T15, T20	60.48	090

TORX PLUS® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			£ Y7	
T05-IP	35	0,5	8.05	057
T06-IP	35	0,9	8.05	058
T07-IP	35	1,7	7.88	059
T08-IP	40	2,6	8.72	060
T09-IP	40	3,4	8.55	061
T10-IP	40	4,5	8.55	062
T15-IP	45	7,7	9.03	063
T20-IP	45	12,7	10.04	064

TORX PLUS® Screwdriver sets



Size	80 950 ...	
	£ Y7	
T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP	94.25	091

Allen key with cross handle



DRVS mm	TQX Nm	80 397 ...	
		£ Y7	
2	1,9	5.02	020
2,5	3,8	5.21	025
3	6,6	5.02	030
4	16	5.02	040
5	30	6.39	050
6	52	6.28	060
8	120	7.80	080
10	220	13.01	100

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



Size	80 397 ...	
	£ Y7	
SW2, SW2,5, SW3, SW4, SW5, SW6, SW8	75.92	99900

TORX® Screwdriver



		80 950 ...	
Size	LB mm	£ Y7	
T06	60	8.79	100
T07	60	8.79	101
T08	60	8.79	102
T09	60	9.46	103
T10	80	9.54	104
T15	80	9.83	105
T20	100	10.09	106
T25	100	10.99	107
T30	115	11.70	092

TORX PLUS® Screwdriver



		80 950 ...	
Size	LB mm	£ Y7	
T06-IP	60	11.21	116
T07-IP	60	10.99	117
T08-IP	60	9.16	039
T09-IP	60	11.88	118
T10-IP	80	12.32	119
T15-IP	80	12.65	120
T20-IP	100	13.55	121
T25-IP	100	14.16	122

TORX® MagicSpring®



		80 950 ...	
Size	LB mm	£ Y7	
MS T06	60	11.71	108
MS T07	60	10.82	109
MS T08	60	10.82	110
MS T09	60	12.32	111
MS T10	80	12.65	112
MS T15	80	12.87	113
MS T20	100	13.77	114
MS T25	100	14.16	115
MS T30	100	14.86	131

TORX PLUS® MagicSpring®



		80 950 ...	
Size	LB mm	£ Y7	
MS T06-IP	60	14.36	123
MS T07-IP	60	14.16	124
MS T08-IP	60	14.16	125
MS T09-IP	60	15.51	126
MS T10-IP	80	16.08	127
MS T15-IP	80	16.56	128
MS T20-IP	100	17.39	129
MS T25-IP	100	20.07	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	£ Y7	
0,4	97.92	00400
0,5	97.92	00500
0,6	123.54	006
0,7	108.49	007
0,8	110.93	008
0,9	97.92	00900
1	110.93	010
1,1	97.04	01100
1,2	122.33	012
1,5	97.04	01500
1,6	122.33	016
1,8	122.33	018
2	122.33	020
2,5	97.04	02500
3	129.31	030
3,2	129.31	032
3,8	102.50	03800
4	129.31	040
5	129.31	050
5,5	145.10	055
6	145.10	060
7,2	114.50	07200

TorqueVario®-S

- ▲ Patented handle

Scope of supply:

incl. Torque-Setter setting tool



80 950 ...

TQX Nm	£ Y7	
0,4 - 1,0	172.38	046
0,5 - 2,0	171.76	191
0,8 - 5,0	162.00	192
2,0 - 7,0	192.38	193

Universal holder for Bits

- ▲ 162 mm long



80 950 ...

for	£ Y7	
DIN3126-C/E 6,3-1/4"	10.63	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	£ Y7	
0,5	4	77.74	00500
0,6	4	77.74	00600
0,9	4	77.74	00900
1,1	4	77.74	01100
1,2	4	77.74	01200
1,4	4	77.74	01400
2,0	4	77.74	02000
2,5	4	77.74	02500
3,0	4	77.74	03000
3,8	4	77.74	03800
4,0	4	77.74	04000

Interchangeable blade for hex drive and 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 ...		£ Y7	£ Y7
		6.34 01500	9.42 151
		6.34 02000	9.42 152
		6.34 02500	9.42 153
		6.34 03000	9.42 154
		6.34 04000	9.42 155

Replaceable Blade for TORX®



		NEW			
		short 75 mm	long 175 mm		
		80 394 ...	80 950 ...		
Size	TQX Nm	£ Y7	£ Y7		
T05	0,4		7.62 048		
T06	0,6	6.34 00600	7.02 031		
T07	0,9	6.34 00700	7.02 032		
T08	1,3	6.34 00800	7.02 033		
T09	2,5	6.34 00900	7.02 034		
T10	3,8	6.34 01000	7.02 035		
T15	5,5	6.34 01500	7.02 036		
T20	8,0	6.34 02000	7.02 037		
T25	8,0	6.34 02500	7.02 038		

Replaceable Blade for TORX PLUS®



		NEW			
		short 75 mm	long 175 mm		
		80 395 ...	80 950 ...		
Size	TQX Nm	£ Y7	£ Y7		
T05-IP	0,5		7.02 049		
T06-IP	0,8	6.34 00600	7.02 050		
T07-IP	1,3	6.34 00700	7.02 051		
T08-IP	2,0	6.34 00800	7.02 043		
T09-IP	3,0	6.34 00900	7.02 052		
T10-IP	4,5	6.34 01000	7.02 053		
T15-IP	6,6	6.34 01500	7.02 054		
T20-IP	8,0	6.34 02000	7.02 055		
T25-IP	8,0	6.34 02500	7.02 056		



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® short bit (25 mm)

▲ DIN3126-C 6,3 – 1/4"



80 950 ...			
Size	TQX Nm	£ Y7	
T06	0,9	1.54	015
T07	1,7	1.54	016
T08	2,6	1.54	017
T09	3,4	1.54	018
T10	4,5	1.54	019
T15	7,7	1.54	020
T20	12,7	1.54	021
T25	19	1.54	022
T30	37,4	1.30	093

TORX® long bit (50 mm)

▲ DIN3126-E 6,3 – 1/4"



80 950 ...			
Size	TQX Nm	£ Y7	
T06	0,9	4.95	023
T07	1,7	4.95	024
T08	2,6	4.95	025
T09	3,4	4.95	026
T10	4,5	4.95	027
T15	7,7	4.95	028
T20	12,7	4.95	029
T25	19	4.95	030
T30	37,4	6.01	094

TORX PLUS® short bit (25 mm)

▲ DIN3126-C 6,3 – 1/4"



80 950 ...			
Size	TQX Nm	£ Y7	
T05-IP	0,5	3.71	065
T06-IP	0,9	3.71	066
T07-IP	1,7	3.71	067
T08-IP	2,6	3.71	068
T09-IP	3,4	3.71	069
T10-IP	4,5	3.71	070
T15-IP	7,7	3.71	071
T20-IP	12,7	3.71	072
T25-IP	19	3.71	073

TORX PLUS® long bit (50 mm)

▲ DIN3126-E 6,3 – 1/4"



80 950 ...			
Size	TQX Nm	£ Y7	
T05-IP	0,5	7.39	074
T06-IP	0,9	7.39	075
T07-IP	1,7	7.39	076
T08-IP	2,6	7.52	040
T09-IP	3,4	7.39	077
T10-IP	4,5	7.39	078
T15-IP	7,7	7.39	079
T20-IP	12,7	7.39	080
T25-IP	19	7.39	081

Bit – hexagonal



80 398 ...		
	£ Y7	
SW1,5-50mm	6.43	01500
SW2,5-50mm	6.43	02500
SW2-50mm	6.43	02000
SW3,5-50mm	6.49	03500
SW3-50mm	5.84	03000
SW4,5-50mm	6.49	04500
SW4-50mm	4.79	04000
SW5-50mm	5.84	05000
SW6-50mm	4.79	06000
SW8-50mm	10.09	08000

TORX® Allen key



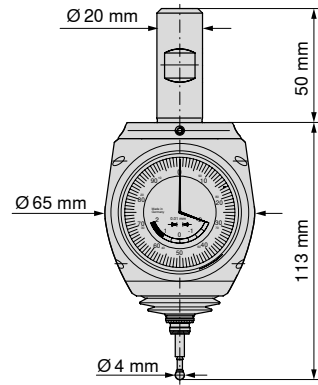
80 951 ...		
Size	OAL mm	£ Y7
T07-IP	44	7.77
T08-IP	47	7.77
T09-IP	51	7.77
T10-IP	54	7.94
T15-IP	58	8.02
T20-IP	62	8.54
T25-IP	67	8.98
T27-IP	73	9.33
T30-IP	79	10.06
T40-IP	88	11.48

Universal 3D-tester

- ▲ Quick and accurate positioning
- ▲ For locating and/or setting the zero point of the workpiece
- ▲ with adjustable concentricity
- ▲ Usable in all 3 axes (x, y, z)
- ▲ For all CNC and erosion machines (insulation between stylus and case)
- ▲ Reading of actual dimensions is independent of direction
- ▲ Reading precision 0.01 mm

Scope of supply:

3D tester including tracer insert and Allen key



85 290 ...

£

XX

331.07 100

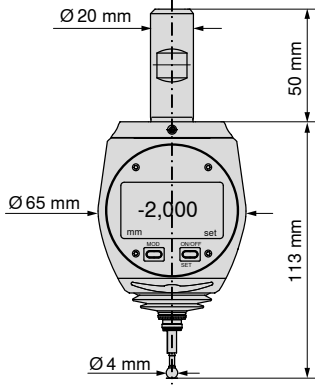
Universal-3D-Tester

Digital 3D-tester

- ▲ Quick and accurate positioning
- ▲ For locating and/or setting the zero point of the workpiece
- ▲ with adjustable concentricity
- ▲ Usable in all 3 axes (x, y, z)
- ▲ For all CNC and erosion machines (insulation between stylus and case)
- ▲ Reading of actual dimensions is independent of direction
- ▲ Reading precision 0.001 mm

Scope of supply:

3D tester including tracer insert and Allen key



85 291 ...

£

XX

753.43 100

Digital 3D Tester

Zero height setting gauge

- ▲ to determine the point of reference and/or for adjusting tools "to zero"
- ▲ Plate Ø 10 mm
- ▲ Plate is hardened, non magnetic



85 900 ...

£

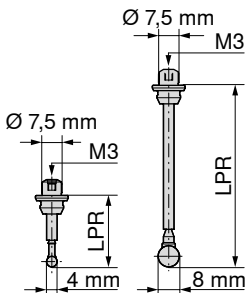
Y7

220.84 018

OAH
mm
100

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 ...

£

XX

25.98 102

55.35 104

LPR
mm

25

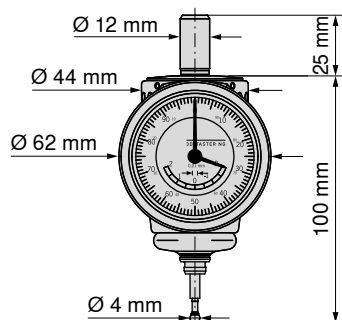
65

Universal 3D-Tester HQ

- ▲ fast and accurate positioning at reference edges
- ▲ Development of the existing universal 3D-Testers
- ▲ improved mechanics
- ▲ compact size
- ▲ characterised by over travel safety
- ▲ Functionality as with 85 290 100
- ▲ Accuracy 0,01 mm

Scope of supply:

3D tester including tracer insert and Allen key



85 292 ...

£
XX
346.83 100

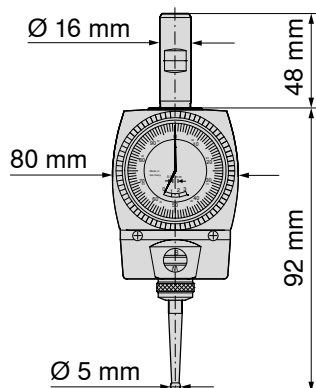
Universal 3D-Tester HQ

Centre finder

- ▲ Centralise holes and features quickly and accurately
- ▲ simple operation
- ▲ Dial gauge remains in the operators vision during process
- ▲ Centring accuracy 0,003 mm

Scope of supply:

3D-Tester incl. straight stylus and telescopic stop



85 299 ...

£
XX
437.00 100

Centre finder



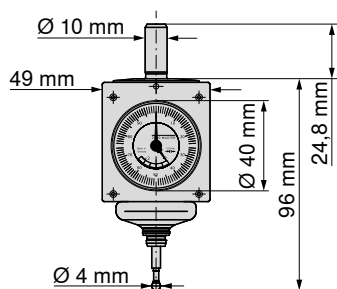
Range with probe tip Ø 5 mm holes
Ø 6-125 mm, shaft Ø 0-125 mm

Universal 3D-Tester Mini

- ▲ fast and accurate positioning at reference edges
- ▲ very small universal 3D-Tester
- ▲ particularly suitable for machines with small spindle taper e.g. SK 30 or HSK 32
- ▲ low overhang length thanks to short housing
- ▲ characterised by over travel safety
- ▲ Functionality as with 85 290 100
- ▲ Accuracy 0,01 mm

Scope of supply:

3D tester including tracer insert and Allen key

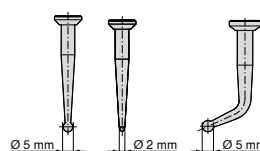


85 295 ...

£
XX
331.07 100

Universal 3D-Tester Mini

Stylii for Centre Finder



85 299 ...

£
XX
33.11 102
32.48 104
39.74 106

Straight stylus / Ball-Ø 2 mm

Straight stylus / Ball-Ø 5 mm

Curved stylus / Ball Ø 5 mm

Telescopic rod for Centre Finder



85 299 ...

DCONMS mm	OAL mm
6	478

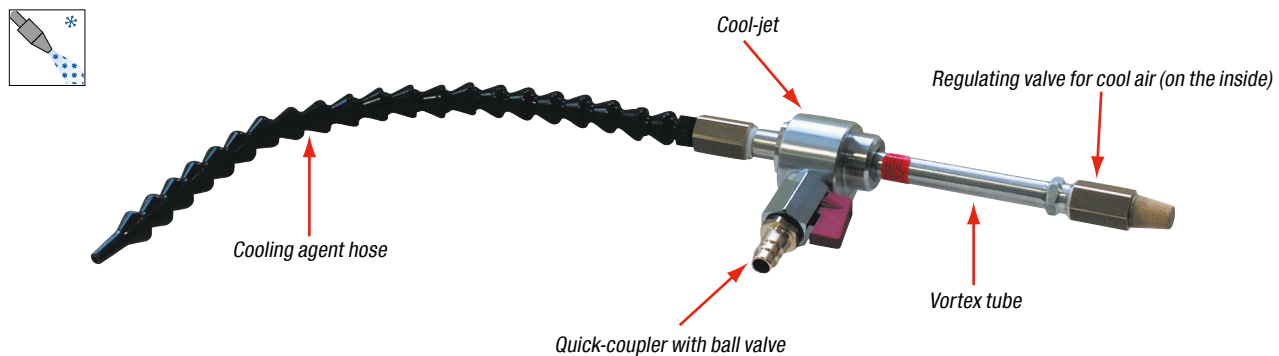
£
XX
13.00 111

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.

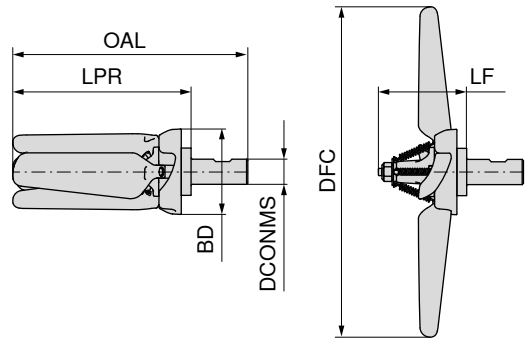
Not only for **cooling the tool and workpiece** it is primarily for **chip removal** to prevent **chip jamming**.



	81 900 ...		81 900 ...
Cool-jet	£ Y7		£ Y7
3-7 bar air pressure, at -46 °C	1,265.44	100	
</			

Cleaning propeller

- ▲ Chip and emulsion removal or drying processes via the tool spindle
- ▲ Simple replacement of the rotor blades



NEW



IK central

80 399 ...

£

Y7

450.19 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 ...

£

Y7

55.23 30100



Rotor blade kit

80 399 ...

£

Y7

213.44 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

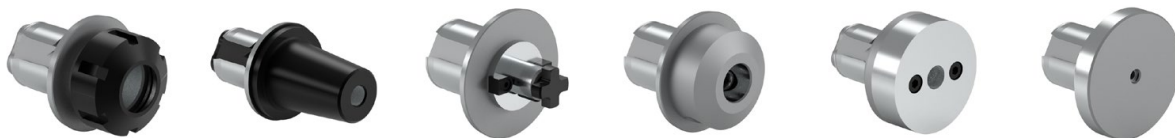
The face & taper contact interface ensures maximum concentricity. The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

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



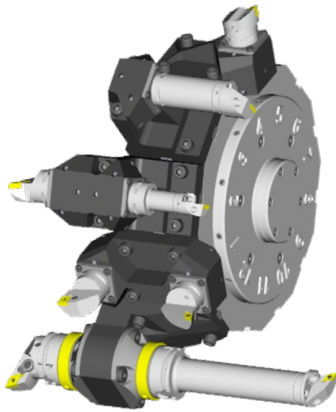
System Preci-Flex® – The stable solution for long tool life and high surface quality

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.



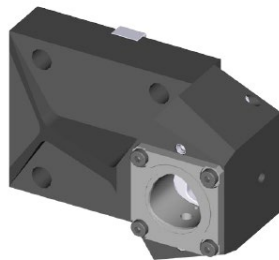
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and HSK holders.

Quick-Change

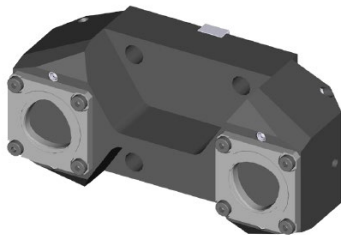


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

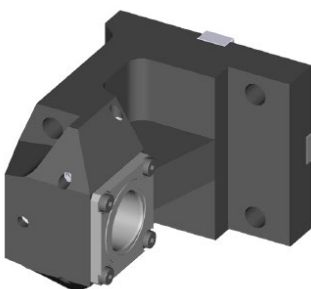
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



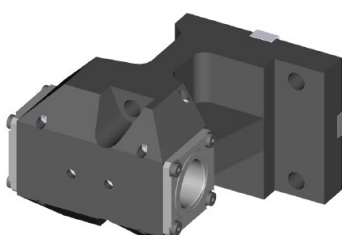
Tool holder single
and straight



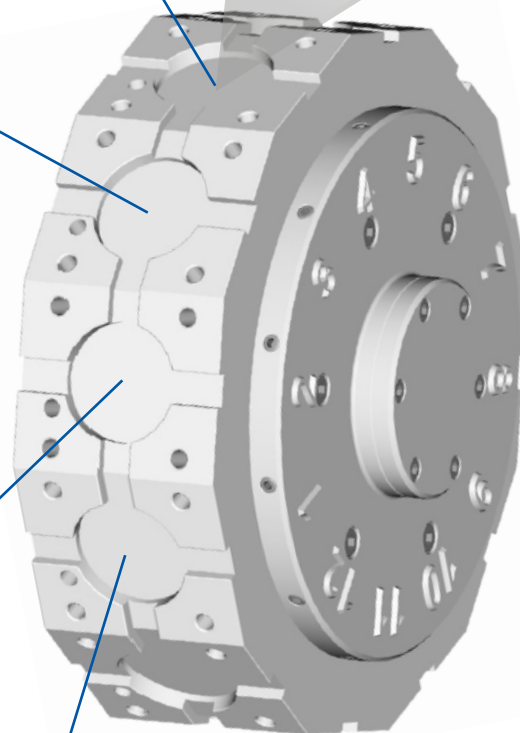
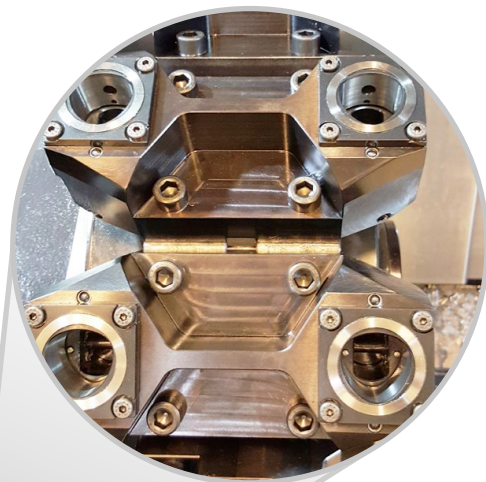
Tool holder double
and straight



Single angle tool holder



Double angle tool holder



Revolverdisk BMT/VDI/...

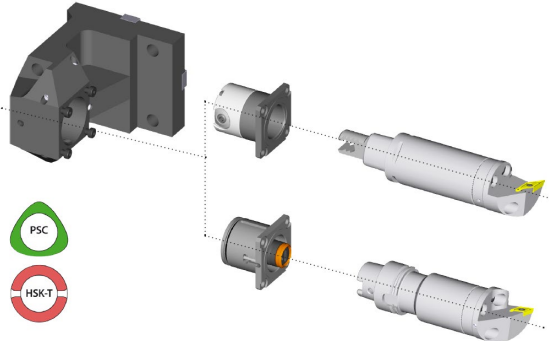
HSK/PSC clamping units



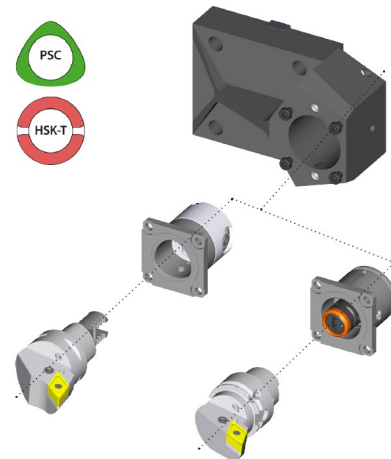
The tool holders are fitted with either an HSK or PSC clamping unit.



Clamping units are available in sizes HSK 40/63/100 and PSC 40/50/63.

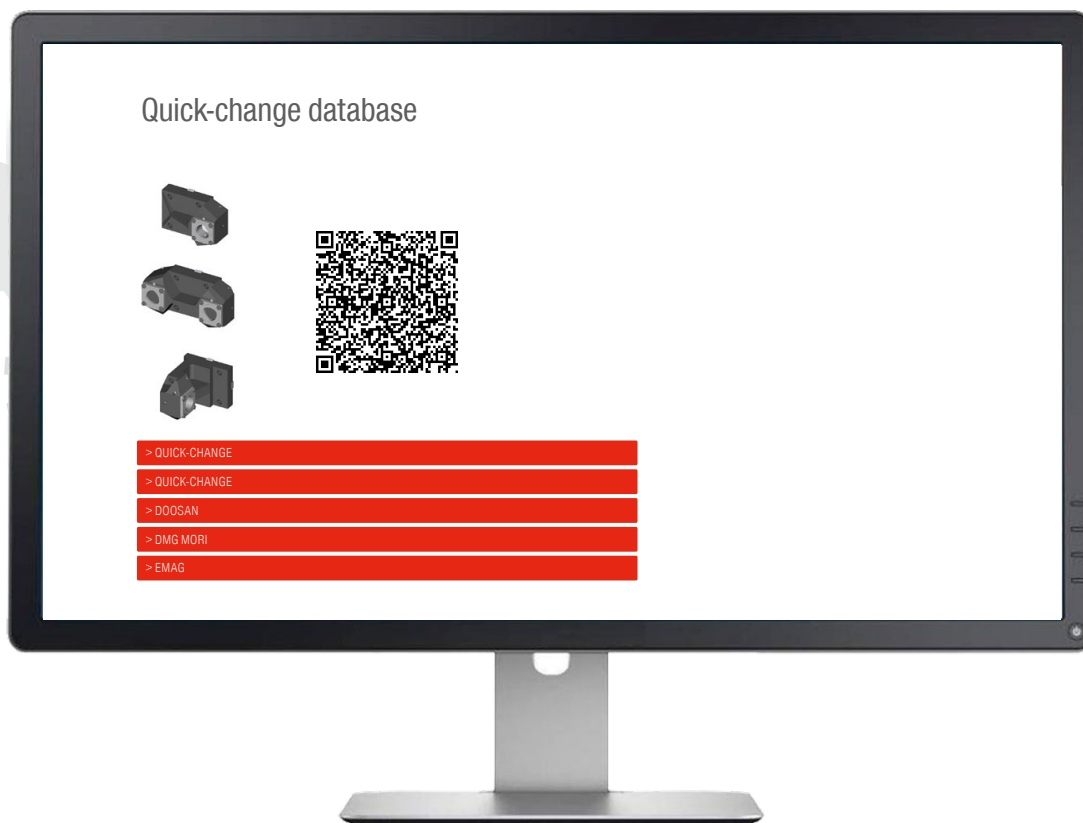


The toolholders permit the flexibility to be adapted to the customer's requirements.



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

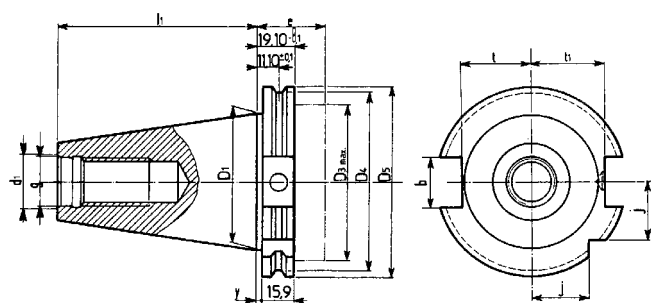
To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process.

Please fill in this form carefully and send it to us by email or fax. → [cutting.tools/en/download-quickchange](https://cuttingtools.ceratzit.com/en/download-quickchange)

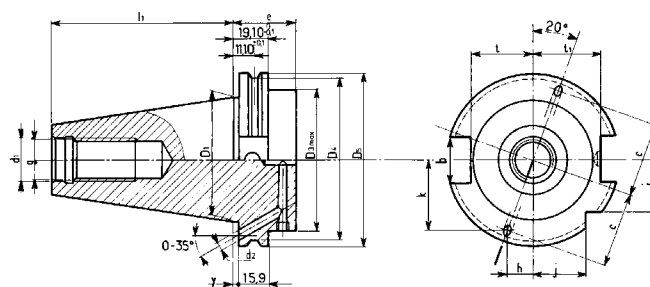
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

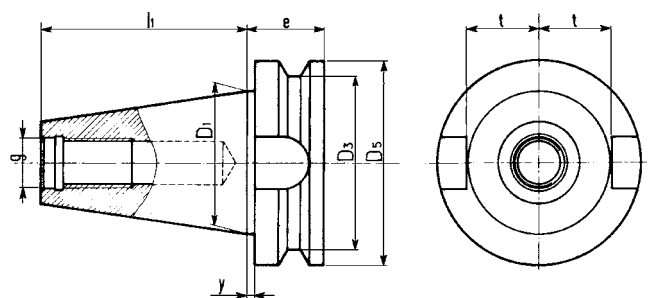


ISO 7388-1 – 871 Form B



	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:

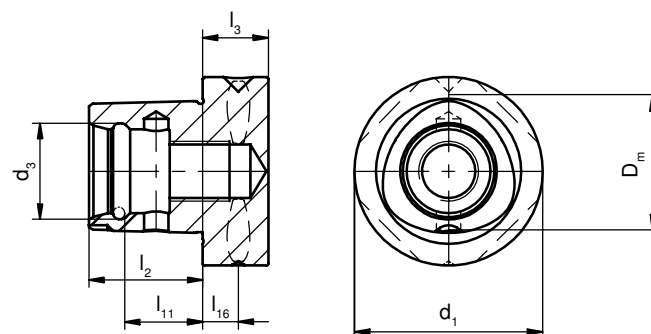
SK / BT 30 to 20,000 1/min.

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

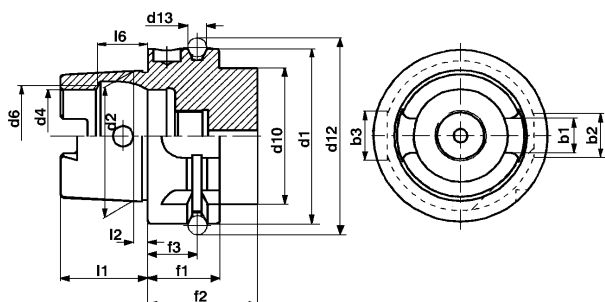
Technical Data for Polygon shank adapters



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

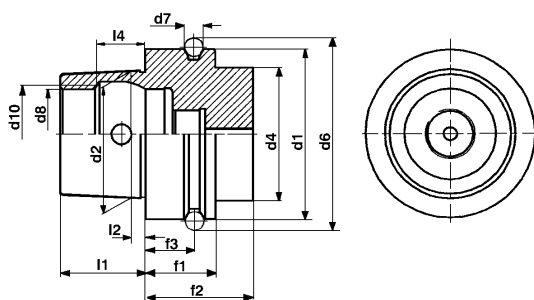
DIN 69893 Form A

- ▲ 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



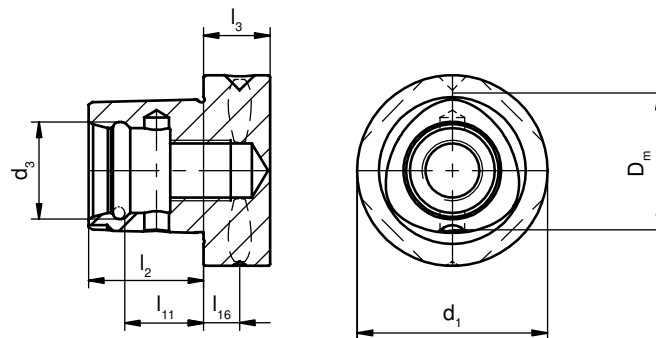
	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₇ mm	d ₈ mm	d ₁₀ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₄ mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

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

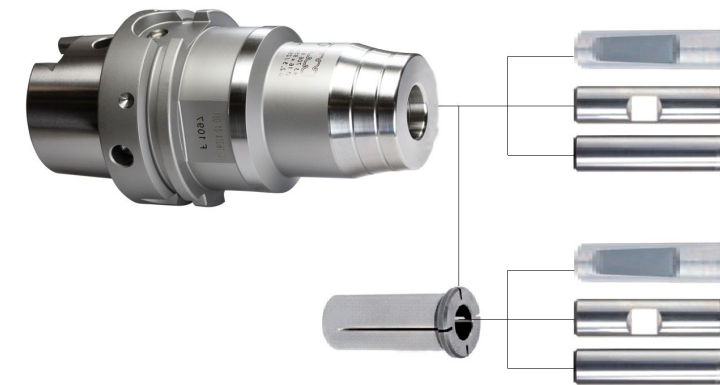
High pressure clamping with optimum damping properties was the aim in the development of the high-pressure chuck. Here, all applications over a continuous operation test were covered over thousands of machining operations. In addition, extensive continuous pressure and positive pressure tests, and vibration 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

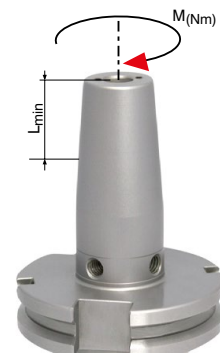
Shank type & size	16	18	20	25	32	mm
Minimum clamping depth	39	39	41	47	51	mm

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

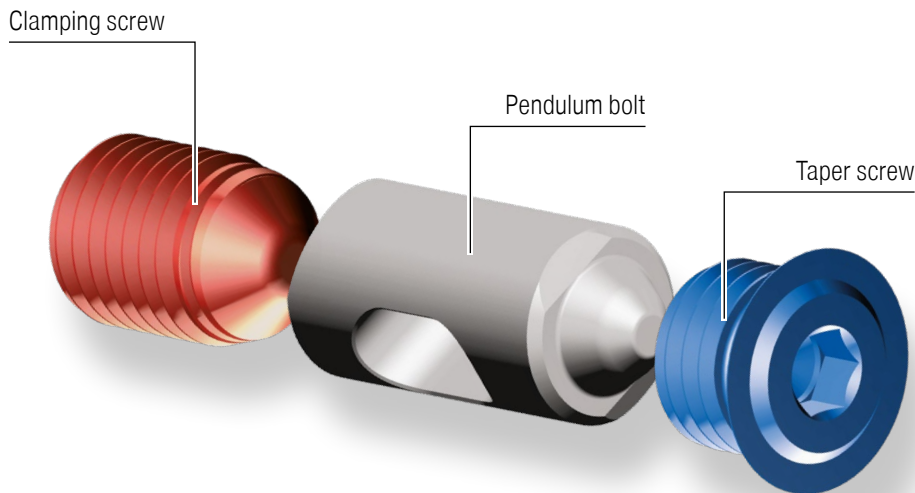
Shank type & size	3	4	5	6	8	10	12	14	16	18	20	25	32	mm
Minimum clamping depth	12	16	20	26	26	31	37	37	40	40	42	48	52	mm
permissible torque moment	4	11	17	24	45	82	145	190	200	290	450	530	700	Nm



Technical information – ABS

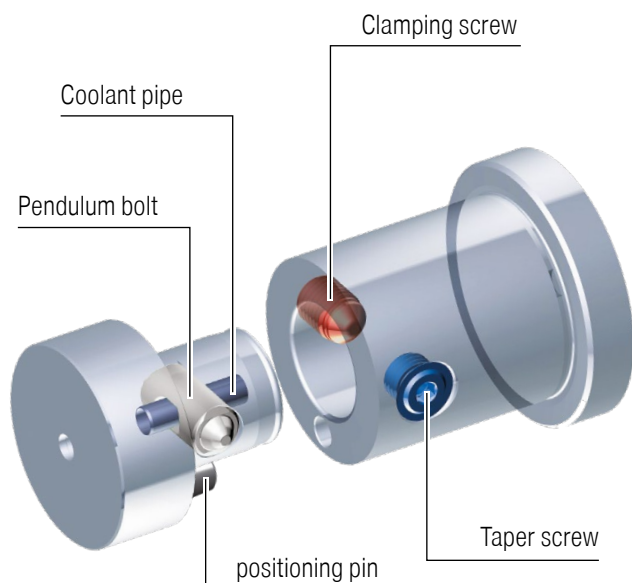
Even better connected

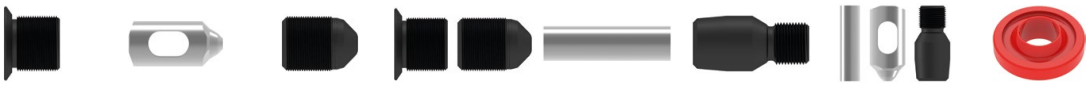
The extension of the proven ABS system complements the existing portfolio and continues to meet the high demands on accuracy. The adapter is an important element in tooling systems between the cutting tool and the machine. It must be able to reliably transmit the cutting forces that are produced. Adapters 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								
	Taper screw	Pendulum bolt	Clamping screw	Range 1	Coolant pipe	positioning pin	Range 2	Sealing ring
25	84 950 27000	84 950 26000	84 950 26800	84 950 99700	84 950 24400	84 950 23600	84 950 98900	84 950 30400
32	84 950 27100	84 950 26100	62 950 13989	84 950 99600	84 950 24500	84 950 23700	84 950 98800	84 950 30500
40	84 950 27200	84 950 26200	84 950 26900	84 950 99500	84 950 24600	84 950 23800	84 950 98700	84 950 30600
50	84 950 20400	84 950 20000	84 950 20300	84 950 99800	84 950 20100	84 950 20200	84 950 99900	84 950 30700
63	84 950 27300	84 950 26300	84 950 25500	84 950 99400	84 950 24700	84 950 23900	84 950 98600	84 950 30800
80	84 950 25100	84 950 26400	84 950 25600	84 950 99300	84 950 24800	84 950 24000	84 950 98500	84 950 30900
100	84 950 25200	84 950 26500	84 950 25700	84 950 99200	84 950 24900	84 950 24100	84 950 98400	84 950 31000
125	84 950 25300	84 950 26600	84 950 25800	84 950 99100	84 950 25000	84 950 24200	84 950 98300	
160	84 950 25400	84 950 26700	84 950 25900	84 950 99000	84 950 23500	84 950 24300	84 950 98200	